



# LST & Anti-ligature Radiators & Guards



Providing safe solutions for  
a variety of environments



HEALTHCARE



MENTAL  
HEALTH



SEN/PRU  
SCHOOLS



EDUCATION



CARE



CUSTODIAL



COMMERCIAL

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# Introduction

Contour has been at the forefront of Low Surface Temperature (LST) & anti-ligature radiator and radiator guard design, manufacture and installation since 2003. During this time, we have developed an extensive range of solutions to satisfy the changing needs of the market and our customers.

Our market leading DeepClean range of radiators and guards has, since its launch in 2006, revolutionised the protection of vulnerable people from dangerously hot surface heating, in the healthcare, education and care home environments. In addition, the DeepClean system with its integral antimicrobial technology has potentially helped hospitals and care facilities throughout the UK save millions of pounds in cleaning costs, with its quick and easy access for cleaning and maintenance. A full pipe casing, HVAC & perimeter casing and manifold cabinet offer is also available to complete our safe surface temperature package.

Contour's work within the mental health sector has led us to develop a range of anti-ligature solutions, specifically designed for use in mental health and challenging environments. Alongside our anti-ligature radiators and guards, our latest innovations include anti-ligature ventilation grilles, light switch covers and much more.

## Support

Site surveys, technical drawings and installation are some of the services Contour offer to make sure the clients needs are met.\*

Contour offers free technical site surveys and can provide an installation service on all covers\*

## BIM

Contour's radiators and guards are available as parametric BIM objects ready to be dropped into plans and our Technical and Customer Services teams are available by phone or email to answer any queries and ensure that projects, whether for first fit or refurbishment, are hassle free.

\*Terms and conditions apply

# About Contour

We are specialists in the design, manufacture and installation of innovative high-quality safe surface temperature heating solutions and anti-ligature solutions. We have a 'can do' spirit and excel in meeting technically challenging specifications where quality is paramount.

## We are the innovation leaders in the UK LST & anti-ligature radiators and guards market

- The patented quick access design of our DeepClean radiator guards has potentially saved the NHS and other public bodies millions, every year in cleaning costs
- Contour was the first UK radiator guard manufacturer to incorporate antimicrobial technology into its guards, setting new standards in hygiene and user protection
- Our specialist anti-ligature radiator guards, equipped with fully shrouded TRVs, security grilles and tamper-proof fixings to prevent unauthorised access, are widely recognised as setting the standard across the NHS, mental health and custodial sectors.

## We provide free of charge surveys

Contour provides a UK wide free survey service to make sure the product is suitable for the environment it's being installed into. Radiator covers, pipe boxing and TV cabinets can be installed by our team of qualified installers.

## We can offer bespoke guard designs

In addition to our standard ranges, Contour is well experienced in developing and installing radiator guards to meet specific requirements.

## We design and manufacture in the UK

All our guards are designed and manufactured at our Midlands plant. This not only ensures a premium quality product but allows us to produce and deliver orders on short lead times throughout the UK.

## Warranties for total peace of mind

Contour radiator emitters and guards are respectively covered by 10 and 5 year product warranties \*.

\*Terms and conditions apply







# Contour's Antimicrobial Products

Contour Heating are the only company to incorporate BioCote® antimicrobial protection into our LST and anti-ligature radiators and guards. This unique additive provides an effective and long-lasting solution to combatting a wide range of bacteria, including MRSA and *E.coli*.

The antimicrobial efficacy of BioCote® products has been tested against a wide range of Gram positive and Gram negative bacteria as well as fungi. BioCote® has been proven to inhibit the growth of these organisms, thus improving the hygiene of protected surfaces.

The DeepClean range incorporates BioCote® antimicrobial protection, as standard into the paintwork of all the LST and anti-ligature radiator guards. BioCote® technology provides effective and permanent protection to the surface of the radiator guard, preventing the growth of microbes such as bacteria and fungi.

## BioCote is:

**Effective** - The silver ions in BioCote® damage the cell wall, disrupting energy production and other cellular functions and prevent microbes from reproducing.

**Proven** - BioCote is a proven broad spectrum antimicrobial technology, effective against a wide range of bacteria, fungi and the H1N1 virus.

**Fast acting and long lasting** - BioCote® treated surfaces show significant microbial reductions within just 15 minutes of exposure to living bacteria and up to 99.5% reduction in under 2 hours (see graph on opposite page). This performance will last for the expected lifetime of the product.

**Efficacy** - The active agents in BioCote® have been used extensively in hospitals as excellent antimicrobials with low toxicity against non-target organisms. They do not function in the same way as antibiotics and there is no evidence to date to demonstrate that bacteria have become resistant to BioCote® as they have to some antibiotics.



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## CERTIFICATE OF ANTIBACTERIAL ANALYSIS

|                 |                              |               |            |
|-----------------|------------------------------|---------------|------------|
| CERTIFICATE NO. | BC139/2020                   | DATE RECEIVED | 27.10.2020 |
| CUSTOMER        | CONTOUR HEATING PRODUCTS LTD | DATE ANALYSED | 27.10.2020 |
| CUSTOMER REF.   | 200/1012                     | DATE REPORTED | 30.10.2020 |
| MANUFACTURER    | PARAMOUNT                    |               |            |

|                  |                      |              |        |
|------------------|----------------------|--------------|--------|
| UNITS OF RESULTS | Colony Forming Units | NO. OF PAGES | 1 of 1 |
|------------------|----------------------|--------------|--------|

### METHOD OF ANALYSIS: DETERMINATION OF ANTIBACTERIAL ACTIVITY USING ISO 22196:2011

| SAMPLE                   | TEST ORGANISM | CONTACT TIME |        | REDUCTION (INITIAL) |         |
|--------------------------|---------------|--------------|--------|---------------------|---------|
|                          |               | 0 HRS        | 24 HRS | Log <sub>10</sub>   | %       |
| BIOCOTE® PROTECTED PAINT | MRSA          | 5.56E+04     | ≤100   | ≥2.74               | ≥99.82% |
| BIOCOTE® PROTECTED PAINT | E. coli       | 5.83E+04     | ≤100   | ≥2.77               | ≥99.83% |

The above data describe the difference in the population sizes of the test organisms, relative to the initial (0 hours) population, following contact with the surface of the samples detailed in this CoA for 24 hours at 35°C under a RH of >90%. These conditions are those specified by the ISO 22196:2011 method of analysis.

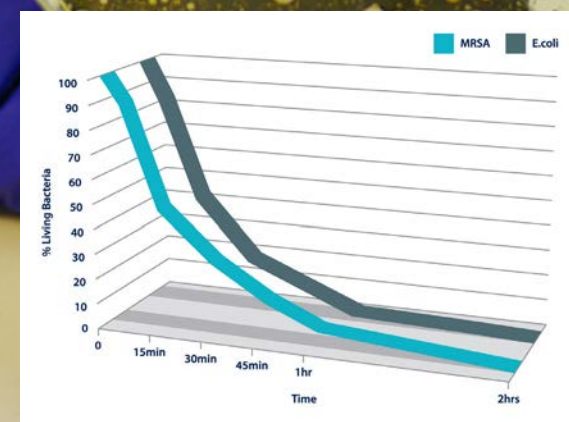
Comment: The sample **BIOCOTE® PROTECTED PAINT** has achieved the BioCote minimum antibacterial performance requirement of 95% \*Reduction against the initial for E. coli and MRSA\* according to ISO 22196:2011 analysis.

FOR BIOCOTE LTD



Technical Manager  
Megan Vaughan

Registered office: BioCote Ltd., 3 Parade Court, Central Boulevard, Prologis Park, Coventry, CV6 4QL  
Registered in England No. 3450699 | VAT No. GB705044570 | ISO 9001:2015 and ISO 14001:2015 certified  
Procedure 302 Appendix B | Issue 9 - 11.02.2019 | M. Vaughan



BioCote® has been tested and seen to be effective against the following bacteria:

- *Staphylococcus aureus* (including MRSA)
- *Escherichia coli* (*E.coli*)
- *Listeria monocytogenes*
- *Streptococcus faecalis*
- *Salmonella enteritides*

## Life time protection

Products treated with BioCote® have been tested for the simulated life of the product / material with no significant reduction in the antimicrobial performance noted, therefore demonstrating antimicrobial efficacy for the life of the radiator guard

## Why Choose BioCote®?

BioCote® is the market leading antimicrobial additive supplier with over 20 years' world wide experience. BioCote® specialise in the development and application of antimicrobial technology; nothing else. This has helped them become the supplier of choice to companies around the world and only products that demonstrate over a 95% reduction in bacteria are allowed to use the BioCote® brand as a guarantee of superior antimicrobial performance. For additional peace of mind any additive supplied by BioCote® goes through a regular and rigorous externally audited quality control process.

A regular schedule of independent laboratory-based QC testing is conducted to ensure the continual efficacy of Contour's LST guards treated with BioCote®. Full test certification can be accessed through the archive on our website: [www.contourheating.com/resource-library/biocote](http://www.contourheating.com/resource-library/biocote).

Following Contour's lead other manufactures have introduced radiator guards also treated with antimicrobial agents. However few, if any can, provide certification to prove the independently verified efficacy of their antimicrobial products.



# Colour Psychology

When planning the construction or refurbishment of a space within a mental health, education environment - or anywhere that occupies challenging or vulnerable individuals - it is essential that measures are put in place within the design process to reduce anxiety and discomfort for patients or students.

Colours can be used strategically within children's hospitals, autism wards, SEN schools and mental health environments to support the interior design of the space.



Colour psychology has a huge impact on design choices in the marketplace. Whether it's to brand your product most effectively or create an environment that will inspire service users, colour psychology is relevant to every aspect of design.

Research into the influence of colours shows that the human brain can be drawn towards - or away from - a company, product or service, purely because of the brand colour palette.

According to Psychology Today, 90% of judgements made about products are based on colour alone.

Colour tends to be too dependent on personal experience to be universally translated into a wider meaning. This means that we can't make generalised, concrete statements like, 'red reminds people of passion' because the colour red will remind each individual of something different depending on their continuously evolving experiences.

However, research has noted broader patterns in the moods that colours evoke. These are based on stereotypes and societal conventions that, though evolving, arouse similar associations for large groups of people (i.e. blue = Conservative, red = Labour).

Here at Contour we are able to offer a wide range of Polyester Powder Coating colours to suit your projects needs.



# DeepClean Range

Radiator guards have traditionally been basic, fixed units that make access difficult and time-consuming. Internal cleaning usually requires complete disassembly if the cover is made from multiple panels, or two people to remove the cover if it's too big for one person and, in the case of hospitals or healthcare facilities, this usually requires extensive assistance from Facilities or Estates personnel.

Ultimately, this impacts on cleaning schedules and hygiene standards. A radiator guard interior that has not been cleaned combined with the convection process, work together to form the perfect conditions for the growth and distribution of potentially dangerous bacteria and particles.

Contour's DeepClean design makes it possible for a single cleaning operative to access internal and external surface of the radiator guard without any support from a Facilities or Estates department. This allows for full access for cleaning inside the radiator guard.

This significantly improves cleaning efficiencies, helps reduce overheads and importantly raises hygiene standards.





# DeepClean LST Radiator

Whether it's the full drop down door or the 'pencil proof grilles', the DeepClean LST Radiator boasts numerous benefits to the user. Combined with its BioCote® anti-microbial technology and optional rotatory valve kits, these make for the perfect solution in hygiene control.

Powder coated inside & outside with Biocote® protection on models finished in RAL 9003 White. Other colours are available.

Made from 1.5mm Zintec steel - gives strength and robustness. 2mm thick casings available for mental health and other secure facility applications. Casing also available in Magnelis for wet and humid areas

Pencil Proof grilles, punched directly from the guard for ease of cleaning.

Casings up to 2m in length are mostly supplied in one piece - no site assembly required (some casings under 2m may require a split dependant on height and depth)

Radius corners make it safer if someone falls against the unit

External TRVs available



Patented easy to open front panel that can lie flat to floor when fully open. The design also facilitates complete removal of the door if required

## DeepClean models

DeepClean LST and anti-ligature radiators and guards are available in four models:

1.  
Floor mounted / flat top

2.  
Wall mounted / flat top

3.  
Floor mounted / sloping top

4.  
Wall mounted / sloping top

## DeepClean colour options

DeepClean radiator guards are available in a wide range of colours, including:



1



2



3



4







# The benefits of DeepClean

Major cost savings through ease and speed of cleaning

Typically one traditional style radiator guard can take well over an hour to disassemble, remove, clean, reassemble and refit, including the removal and subsequent reapplication of silicon sealant between the wall and guard.

The DeepClean design makes it possible for a single cleaning operative to access every internal and external surface of the radiator guard without any support from a Facilities or Estates department.

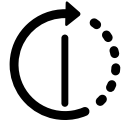
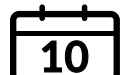
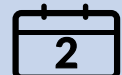
This significantly improves cleaning efficiencies, helps reduce overheads and importantly raises hygiene standards. The DeepClean radiator guard itself has a unique, patented door design (UK Patent No. 2 410 544) with quick release locks, which allows the complete front of the radiator guard to lower and lie flat on the floor. The open hinge arrangement also permits front door removal if required.

In addition Rotarad™ rotating radiator valves can also be retrofitted to existing panel radiators to allow the emitter to fully pivot down to the floor – delivering access behind the radiator for unrivalled cleaning and maintenance.

# The business case for specifying DeepClean

Contour has enabled the NHS to potentially save over £35 million since 2006\*

We've achieved this by developing the revolutionary DeepClean LST and anti-ligature guard range. On this basis here's an example costing based on a hospital with 150 radiators that require a full weekly clean.

| Traditional LST                                                                                                                                                                                                                                                                                                                        | DeepClean LST                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  2 person job involving estates personnel.                                                                                                                                                                                                          |  1 cleaning operative alone can now open the LST casing.                                                                                                              |
|  Conservatively estimate at least 30 minutes to remove 1 LST casing, clean casing internally, clean radiator, clean wall, clean floor and refit casing (wall & back of radiator cannot be cleaned). Excludes replacing silicon sealant around unit. |  5 minutes to clean every internal surface of the casings and the radiator, including back of radiator and whole wall space. No need to replace sealant around units. |
|  7 hours working day = 14 LST radiator guards cleaned per day per team.                                                                                                                                                                           |  In an average day of 7 working hours, 1 person can clean 84 radiators.                                                                                             |
|  Over 10 days required for 2 people to clean the 150 radiators in the property.                                                                                                                                                                   |  Allow 2 days for 1 person to clean every radiator in the property.                                                                                                 |
|  Weekly cleaning of these radiators would require 2 teams of two staff, both working at least 5 days a week to complete 1 cleaning cycle.                                                                                                         |  Weekly cleaning would now realistically require only 1 dedicated cleaner, with little or no support from the estates department.                                   |
|  An annual budget of at least £63,481.60 at the National Living Wage (£8.72 ph as of 19/5/21) would be required to clean all 150 radiators on a weekly basis.                                                                                     |  At the National Living Wage (£8.72 ph as of 19/5/21) weekly cleaning of these radiators would cost the hospital £6,348.16 per year.                                |

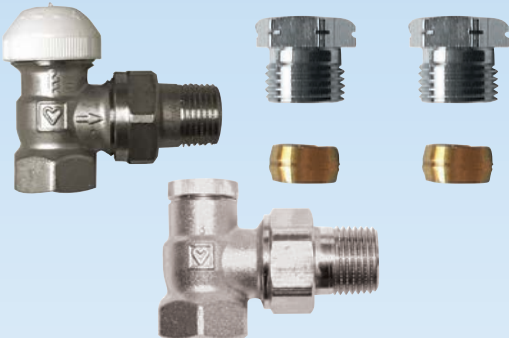
In this example, replacing traditional LST units with DeepClean LST radiators or guards could save £57,133.44 in cleaning costs by the end of year 1, or over £380.89 per radiator/guard.

\*Savings figure is based on the likely costs for cleaning traditional LST radiators to the required NHS standards, compared to the estimated cost of cleaning all the Contour DeepClean LST radiators supplied to NHS facilities since 2006, to the same standard. Standards based on NHS guidelines that state radiators should be cleaned on a weekly basis and that radiator guards should be removed as part of a 'damp-dusting' cleaning regime. For reference these specifications can be found in NHS National Patient Safety Agency documents 'The national specifications for cleanliness in the NHS: Guidance on setting and measuring performance outcomes in primary care medical and dental premises', August 2010 and 'The Revised Healthcare Cleaning Manual', June 2009.

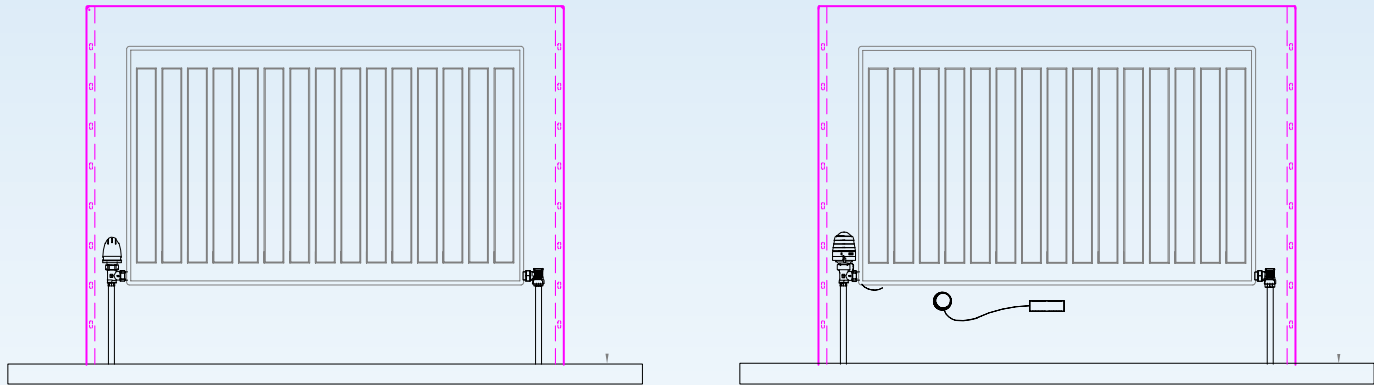


# TRV Kits

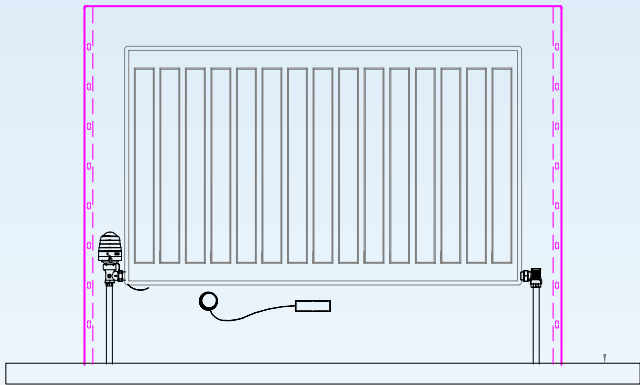
Contour offers four different thermostatic radiator valve (TRV) kits specifically designed for our LST radiators. They are available for both two pipe and one pipe systems.



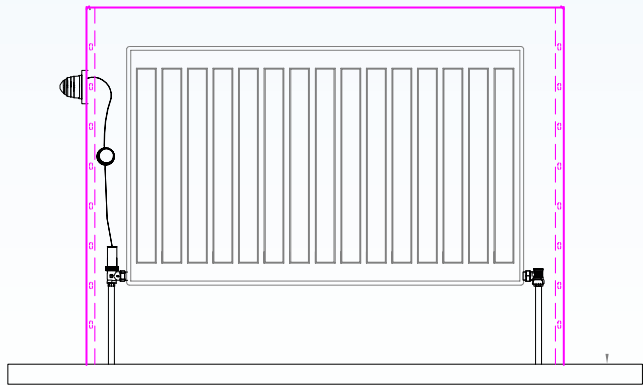
Each kit includes these standard components which are suitable for 1/2" steel or 15mm copper 2 pipe systems. If alternative patterns and fitting on to a one pipe system then please contact our technical department to arrange an alternative solution within our range



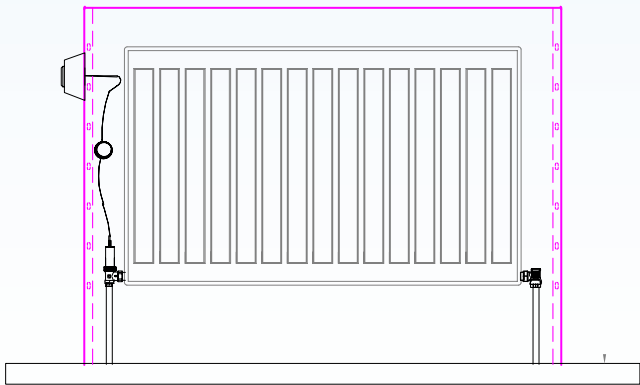
Internal  
Code: 9210-13



Remote Sensing  
Code: 7463-41



External  
Code: 9330-41



Anti Ligature  
Code: 1935241

## Valve Options:

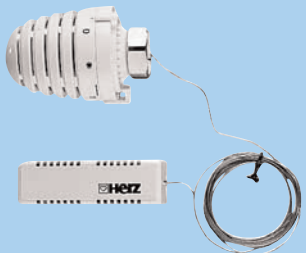
### 90210-13 Standard Internal TRV Kits

Suitable for areas where access to the valve is not of a high priority and can be adjusted a few times a year depending on weather conditions.  
Bottom Bottom Opposite End (BBOE) connections required to avoid the thermostatic head from getting false temperature readings.



### 7463-41 Internal TRV Kit With Remote Sensor

Suitable for radiators that are connected Top Bottom opposite End (TBOE), meaning the thermostat will be located at the top of casings.  
The remote sensor can be installed to the bottom inlet grill or on the wall next to the casing.



### 9330-41 Standard External TRV Kit

External TRV head means adjustment is available to all. Should you wish to limit the adjustment locking pins are supplied as standard.



### 1935241 Anti-Ligature TRV Kit C/W back to wall shroud

Suited for mental health environments, the CNC back to wall shrouds reduces the risk of ligature points and vandalism, without compromising on patient ability to adjust.



### Rotarad™ rotating radiator valves\*

Rotarad is a unique, WRAS, KTW and ACS approved rotating valve kit, which can be used on both new installation projects and retrofitted to existing radiators.



### Valve Adapter Kit\*\*

Contour's valve adapter allows for a new Contour TRV kit to be installed on to existing radiator valves where it's not compatible with the Herz thread. This allows for replacement covers and valves to be installed on to existing heating system without the need for draining down.



- \*RotaRad kit is only suitable on steel panel radiators that are connected to a two pipe system with BBOE connections. We recommend installing a RotRad kit on to a maximum size of 1500 x 600 double panel radiator.
- \*\*Contour valve adapter may not be suitable for domestic valve bodies. If the valves on the heating system is older than 10 years and experiencing sticking issues then we recommend for the heating system to be drained and new valve bodies to be installed.



# DeepClean - Standard Grilles

## Floor Mounted - Flat Top

### Summary:

#### Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- 5.5mm Punched grille
- Cut-outs programmed into manufacture

#### Emitter:

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar -(tested to 13 bar/188PSI)

#### Sizes

- Single casing length 600mm to 2000mm
- Single casing height 550mm to 1150mm (Type 33 from 450mm)
- Lengths over 2000mm can be achieved but will be modular design so some assembly required on site
- Bespoke solutions available

#### Valve options available:

- Internal TRV kit 9210-13
- External TRV kit 9330-41
- Remote sensing TRV kit 7463-41
- Anti-Ligature TRV kit
- Rotarad rotating valve kit:  
RR04 Single Fin / RR05 Half Fin / RR06 Double Fin (not suitable for Triple Fin radiators)
- Alternative valve patterns and sizes are available upon request

#### Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available Patented BioCote® anti-microbial agent as standard

#### Fixings:

- All fixings internal
- 6mm Allen key door locks as standard
- Other secure options available

### Technical Information & Specifications

#### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and the option of a 90 degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- An optional Rotarad rotary valve is available (not suitable for Triple Fin radiators)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

#### Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables

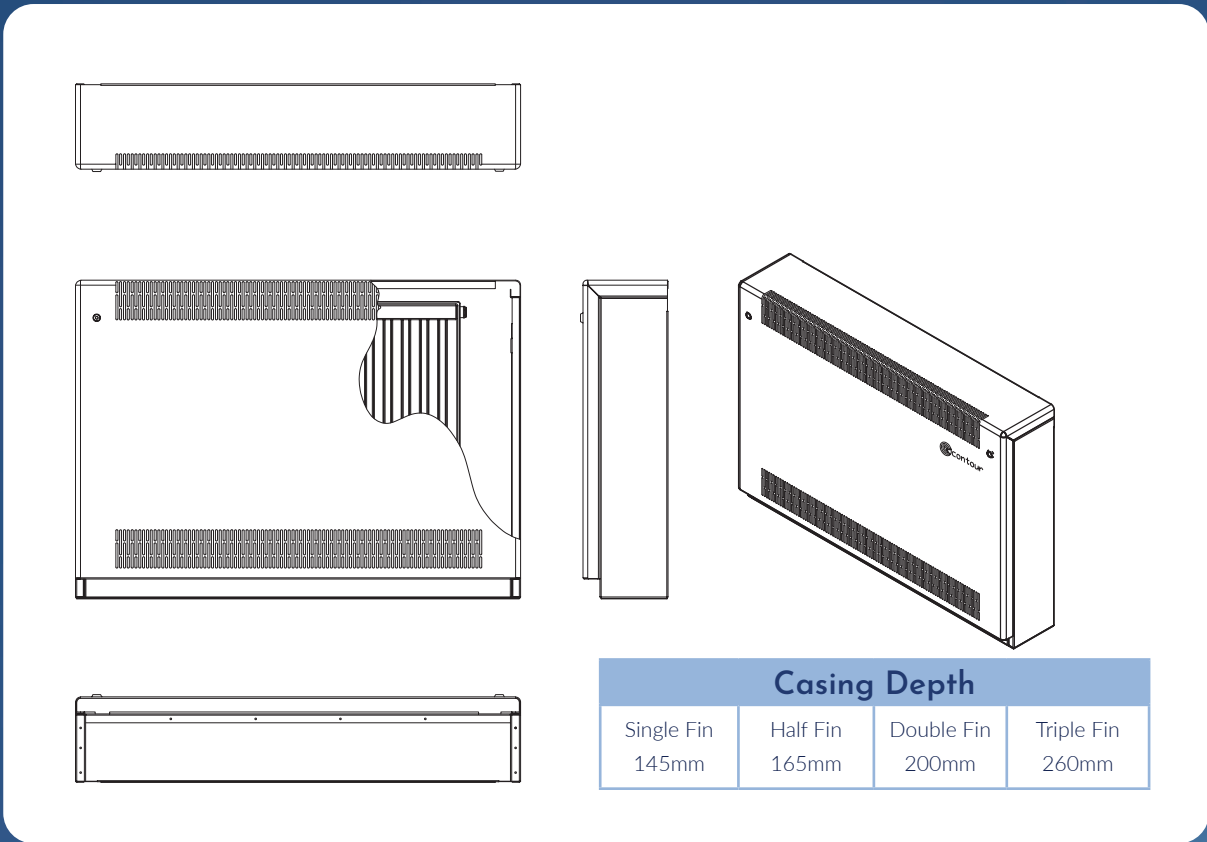
Heat outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To acheive Delta T60 increase T50 figure by 20.5%

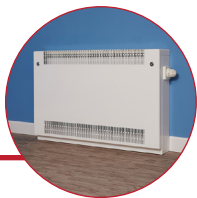
To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293





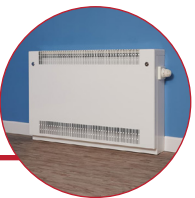
DeepClean - Flat Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 145mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 550                | 600                | 192                 | 58                  | DF5506SF     | 292                 | 88                  | DF5506HF     | 375                 | 113                 | DF5506DF     |                     |                     |              |
|                    | 700                | 241                 | 73                  | DF5507SF     | 365                 | 110                 | DF5507HF     | 468                 | 141                 | DF5507DF     | 647                 | 195                 | DF5507TF     |
|                    | 800                | 289                 | 87                  | DF5508SF     | 438                 | 132                 | DF5508HF     | 562                 | 170                 | DF5508DF     | 776                 | 234                 | DF5508TF     |
|                    | 900                | 337                 | 102                 | DF5509SF     | 511                 | 154                 | DF5509HF     | 655                 | 198                 | DF5509DF     | 905                 | 273                 | DF5509TF     |
|                    | 1000               | 385                 | 116                 | DF5510SF     | 584                 | 176                 | DF5510HF     | 749                 | 226                 | DF5510DF     |                     |                     |              |
|                    | 1100               | 433                 | 131                 | DF5511SF     | 657                 | 198                 | DF5511HF     | 843                 | 255                 | DF5511DF     | 1164                | 352                 | DF5511TF     |
|                    | 1200               | 481                 | 145                 | DF5512SF     | 730                 | 220                 | DF5512HF     | 936                 | 283                 | DF5512DF     | 1293                | 391                 | DF5512TF     |
|                    | 1300               | 530                 | 160                 | DF5513SF     | 803                 | 242                 | DF5513HF     | 1027                | 310                 | DF5513DF     | 1422                | 430                 | DF5513TF     |
|                    | 1400               | 578                 | 174                 | DF5514SF     | 876                 | 264                 | DF5514HF     | 1123                | 339                 | DF5514DF     | 1552                | 469                 | DF5514TF     |
|                    | 1500               | 626                 | 189                 | DF5515SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 674                 | 203                 | DF5516SF     | 1022                | 309                 | DF5516HF     | 1311                | 396                 | DF5516DF     | 1810                | 547                 | DF5516TF     |
|                    | 1800               | 771                 | 233                 | DF5518SF     | 1168                | 353                 | DF5518HF     | 1498                | 452                 | DF5518DF     | 2069                | 625                 | DF5518TF     |
|                    | 2000               | 867                 | 262                 | DF5520SF     | 1314                | 397                 | DF5520HF     | 1686                | 509                 | DF5520DF     | 2327                | 703                 | DF5520TF     |
|                    | 2200               | 963                 | 291                 | DF5522SF     |                     |                     |              | 1873                | 566                 | DF5522DF     | 2586                | 781                 | DF5522TF     |
|                    | 2400               | 1059                | 320                 | DF5524SF     |                     |                     |              | 2059                | 622                 | DF5524DF     |                     |                     |              |
|                    | 2600               | 1155                | 349                 | DF5526SF     |                     |                     |              | 2247                | 679                 | DF5526DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 650                | 600                | 248                 | 75                  | DF6506SF     | 372                 | 112                 | DF6506HF     | 480                 | 145                 | DF6506DF     |                     |                     |              |
|                    | 700                | 311                 | 94                  | DF6507SF     | 465                 | 141                 | DF6507HF     | 600                 | 181                 | DF6507DF     | 829                 | 251                 | DF6507TF     |
|                    | 800                | 372                 | 112                 | DF6508SF     | 558                 | 169                 | DF6508HF     | 719                 | 217                 | DF6508DF     | 995                 | 300                 | DF6508TF     |
|                    | 900                | 434                 | 131                 | DF6509SF     | 651                 | 197                 | DF6509HF     | 839                 | 253                 | DF6509DF     | 1161                | 350                 | DF6509TF     |
|                    | 1000               | 497                 | 150                 | DF6510SF     | 744                 | 225                 | DF6510HF     | 959                 | 290                 | DF6510DF     | 1326                | 400                 | DF6510TF     |
|                    | 1100               | 558                 | 169                 | DF6511SF     | 837                 | 253                 | DF6511HF     | 1079                | 326                 | DF6511DF     | 1493                | 451                 | DF6511TF     |
|                    | 1200               | 620                 | 187                 | DF6512SF     | 930                 | 281                 | DF6512HF     | 1199                | 362                 | DF6512DF     | 1658                | 501                 | DF6512TF     |
|                    | 1300               | 683                 | 206                 | DF6513SF     | 1024                | 309                 | DF6513HF     | 1319                | 398                 | DF6513DF     | 1824                | 551                 | DF6513TF     |
|                    | 1400               | 744                 | 225                 | DF6514SF     | 1116                | 337                 | DF6514HF     | 1438                | 434                 | DF6514DF     | 1990                | 601                 | DF6514TF     |
|                    | 1500               | 806                 | 244                 | DF6515SF     | 1210                | 365                 | DF6515HF     | 1558                | 471                 | DF6515DF     |                     |                     |              |
|                    | 1600               | 869                 | 262                 | DF6516SF     | 1302                | 393                 | DF6516HF     | 1679                | 507                 | DF6516DF     |                     |                     |              |
|                    | 1700               | 931                 | 281                 | DF6517SF     | 1396                | 421                 | DF6517HF     | 1799                | 543                 | DF6517DF     |                     |                     |              |
|                    | 1800               | 992                 | 300                 | DF6518SF     | 1488                | 449                 | DF6518HF     | 1918                | 579                 | DF6518DF     | 2653                | 801                 | DF6518TF     |
|                    | 2000               | 1117                | 337                 | DF6520SF     | 1674                | 506                 | DF6520HF     | 2158                | 652                 | DF6520DF     | 2984                | 901                 | DF6520TF     |
|                    | 2200               | 1241                | 375                 | DF6522SF     | 1860                | 562                 | DF6522HF     | 2398                | 724                 | DF6522DF     | 3316                | 1001                | DF6522TF     |
|                    | 2400               | 1364                | 412                 | DF6524SF     | 2046                | 618                 | DF6524HF     | 2637                | 796                 | DF6524DF     | 3648                | 1102                | DF6524TF     |
|                    | 2600               | 1489                | 450                 | DF6526SF     | 2232                | 674                 | DF6526HF     | 2877                | 869                 | DF6526DF     |                     |                     |              |

DeepClean - Flat Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 145mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 750                | 500                | 223                 | 67                  | DF7505SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 298                 | 90                  | DF7506SF     | 448                 | 135                 | DF7506HF     | 577                 | 174                 | DF7506DF     |                     |                     |              |
|                    | 700                | 373                 | 113                 | DF7507SF     | 560                 | 169                 | DF7507HF     | 721                 | 218                 | DF7507DF     | 997                 | 301                 | DF7507TF     |
|                    | 800                | 448                 | 135                 | DF7508SF     | 671                 | 203                 | DF7508HF     | 864                 | 261                 | DF7508DF     | 1195                | 361                 | DF7508TF     |
|                    | 900                | 522                 | 158                 | DF7509SF     | 783                 | 237                 | DF7509HF     | 1008                | 305                 | DF7509DF     | 1395                | 421                 | DF7509TF     |
|                    | 1000               | 596                 | 180                 | DF7510SF     | 895                 | 270                 | DF7510HF     | 1153                | 348                 | DF7510DF     | 1594                | 481                 | DF7510TF     |
|                    | 1100               | 671                 | 203                 | DF7511SF     | 1007                | 304                 | DF7511HF     | 1297                | 392                 | DF7511DF     | 1793                | 542                 | DF7511TF     |
|                    | 1200               | 746                 | 225                 | DF7512SF     | 1119                | 338                 | DF7512HF     | 1441                | 435                 | DF7512DF     | 1993                | 602                 | DF7512TF     |
|                    | 1300               | 821                 | 248                 | DF7513SF     | 1231                | 372                 | DF7513HF     | 1585                | 479                 | DF7513DF     | 2192                | 662                 | DF7513TF     |
|                    | 1400               | 895                 | 270                 | DF7514SF     | 1342                | 405                 | DF7514HF     | 1729                | 522                 | DF7514DF     | 2391                | 722                 | DF7514TF     |
|                    | 1500               | 969                 | 293                 | DF7515SF     | 1454                | 439                 | DF7515HF     | 1873                | 566                 | DF7515DF     | 2591                | 782                 | DF7515TF     |
|                    | 1600               | 1044                | 315                 | DF7516SF     | 1566                | 473                 | DF7516HF     | 2018                | 609                 | DF7516DF     | 2790                | 843                 | DF7516TF     |
|                    | 1700               | 1119                | 338                 | DF7517SF     | 1679                | 507                 | DF7517HF     | 2162                | 653                 | DF7517DF     |                     |                     |              |
|                    | 1800               | 1193                | 360                 | DF7518SF     | 1790                | 541                 | DF7518HF     | 2305                | 696                 | DF7518DF     |                     |                     |              |
|                    | 2000               | 1342                | 405                 | DF7520SF     | 2014                | 608                 | DF7520HF     | 2593                | 783                 | DF7520DF     | 3587                | 1083                | DF7520TF     |
|                    | 2200               | 1492                | 450                 | DF7522SF     | 2237                | 676                 | DF7522HF     | 2882                | 870                 | DF7522DF     | 3985                | 1204                | DF7522TF     |
|                    | 2400               | 1641                | 496                 | DF7524SF     | 2461                | 743                 | DF7524HF     | 3170                | 957                 | DF7524DF     | 4384                | 1324                | DF7524TF     |
|                    | 2600               | 1790                | 541                 | DF7526SF     | 2685                | 811                 | DF7526HF     | 3459                | 1044                | DF7526DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 850                | 500                | 259                 | 78                  | DF8505SF     | 389                 | 117                 | DF8505HF     | 499                 | 151                 | DF8505DF     |                     |                     |              |
|                    | 600                | 345                 | 104                 | DF8506SF     | 519                 | 157                 | DF8506HF     | 666                 | 201                 | DF8506DF     | 920                 | 278                 | DF8506TF     |
|                    | 700                | 432                 | 130                 | DF8507SF     | 649                 | 196                 | DF8507HF     | 832                 | 251                 | DF8507DF     | 1150                | 347                 | DF8507TF     |
|                    | 800                | 518                 | 156                 | DF8508SF     | 778                 | 235                 | DF8508HF     | 998                 | 301                 | DF8508DF     | 1380                | 417                 | DF8508TF     |
|                    | 900                | 604                 | 183                 | DF8509SF     | 908                 | 274                 | DF8509HF     | 1164                | 352                 | DF8509DF     | 1610                | 486                 | DF8509TF     |
|                    | 1000               | 691                 | 209                 | DF8510SF     | 1038                | 313                 | DF8510HF     | 1331                | 402                 | DF8510DF     | 1840                | 556                 | DF8510TF     |
|                    | 1100               | 777                 | 235                 | DF8511SF     | 1167                | 352                 | DF8511HF     | 1497                | 452                 | DF8511DF     | 2070                | 625                 | DF8511TF     |
|                    | 1200               | 863                 | 261                 | DF8512SF     | 1297                | 392                 | DF8512HF     | 1663                | 502                 | DF8512DF     | 2300                | 695                 | DF8512TF     |
|                    | 1300               | 950                 | 287                 | DF8513SF     | 1427                | 431                 | DF8513HF     | 1830                | 553                 | DF8513DF     | 2529                | 764                 | DF8513TF     |
|                    | 1400               | 1036                | 313                 | DF8514SF     | 1556                | 470                 | DF8514HF     | 1996                | 603                 | DF8514DF     | 2760                | 833                 | DF8514TF     |
|                    | 1500               | 1122                | 339                 | DF8515SF     | 1686                | 509                 | DF8515HF     | 2163                | 653                 | DF8515DF     |                     |                     |              |
|                    | 1600               | 1209                | 365                 | DF8516SF     | 1816                | 548                 | DF8516HF     | 2329                | 703                 | DF8516DF     | 3220                | 972                 | DF8516TF     |
|                    | 1700               | 1295                | 391                 | DF8517SF     | 1946                | 588                 | DF8517HF     | 2496                | 754                 | DF8517DF     |                     |                     |              |
|                    | 1800               | 1381                | 417                 | DF8518SF     | 2075                | 627                 | DF8518HF     | 2661                | 804                 | DF8518DF     | 3679                | 1111                | DF8518TF     |
|                    | 2000               | 1554                | 469                 | DF8520SF     | 2334                | 705                 | DF8520HF     | 2994                | 904                 | DF8520DF     | 4139                | 1250                | DF8520TF     |
|                    | 2200               | 1727                | 521                 | DF8522SF     | 2593                | 783                 | DF8522HF     | 3327                | 1005                | DF8522DF     | 4600                | 1389                | DF8522TF     |
|                    | 2400               | 1899                | 574                 | DF8524SF     | 2852                | 861                 | DF8524HF     | 3660                | 1105                | DF8524DF     |                     |                     |              |
|                    | 2600               | 2072                | 626                 | DF8526SF     | 3112                | 940                 | DF8526HF     | 3993                | 1206                | DF8526DF     |                     |                     |              |



# DeepClean - Flat Top - Standard Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22

TF/Type 33



Casing Depths

145mm

165mm

200mm

260mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 950                | 600                | 389                 | 117                 | DF9506SF     | 587                 | 177                 | DF9506HF     | 748                 | 226                 | DF9506DF     | 1032                | 312                 | DF9506TF     |
|                    | 700                | 487                 | 147                 | DF9507SF     | 733                 | 221                 | DF9507HF     | 935                 | 282                 | DF9507DF     | 1291                | 390                 | DF9507TF     |
|                    | 800                | 584                 | 176                 | DF9508SF     | 879                 | 266                 | DF9508HF     | 1121                | 339                 | DF9508DF     | 1548                | 467                 | DF9508TF     |
|                    | 900                | 681                 | 206                 | DF9509SF     | 1026                | 310                 | DF9509HF     | 1308                | 395                 | DF9509DF     | 1806                | 545                 | DF9509TF     |
|                    | 1000               | 778                 | 235                 | DF9510SF     | 1173                | 354                 | DF9510HF     | 1495                | 452                 | DF9510DF     | 2064                | 623                 | DF9510TF     |
|                    | 1100               | 876                 | 264                 | DF9511SF     | 1319                | 398                 | DF9511HF     | 1682                | 508                 | DF9511DF     | 2322                | 701                 | DF9511TF     |
|                    | 1200               | 973                 | 294                 | DF9512SF     | 1466                | 443                 | DF9512HF     | 1869                | 564                 | DF9512DF     | 2580                | 779                 | DF9512TF     |
|                    | 1300               | 1070                | 323                 | DF9513SF     | 1613                | 487                 | DF9513HF     | 2056                | 621                 | DF9513DF     | 2838                | 857                 | DF9513TF     |
|                    | 1400               | 1168                | 353                 | DF9514SF     | 1759                | 531                 | DF9514HF     | 2243                | 677                 | DF9514DF     | 3096                | 935                 | DF9514TF     |
|                    | 1500               | 1265                | 382                 | DF9515SF     | 1905                | 575                 | DF9515HF     | 2430                | 734                 | DF9515DF     |                     |                     |              |
|                    | 1600               | 1362                | 411                 | DF9516SF     | 2052                | 620                 | DF9516HF     | 2617                | 790                 | DF9516DF     | 3613                | 1091                | DF9516TF     |
|                    | 1700               | 1460                | 441                 | DF9517SF     |                     |                     |              | 2804                | 847                 | DF9517DF     |                     |                     |              |
|                    | 1800               | 1557                | 470                 | DF9518SF     | 2345                | 708                 | DF9518HF     | 2990                | 903                 | DF9518DF     | 4128                | 1247                | DF9518TF     |
|                    | 2000               | 1751                | 529                 | DF9520SF     | 2639                | 797                 | DF9520HF     | 3364                | 1016                | DF9520DF     |                     |                     |              |
|                    | 2200               | 1946                | 588                 | DF9522SF     |                     |                     |              | 3738                | 1129                | DF9522DF     |                     |                     |              |
|                    | 2400               | 2140                | 646                 | DF9524SF     |                     |                     |              | 4112                | 1242                | DF9524DF     |                     |                     |              |
|                    | 2600               | 2334                | 705                 | DF9526SF     |                     |                     |              | 4486                | 1355                | DF9526DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1150               | 600                | 466                 | 141                 | DF1106SF     | 712                 | 215                 | DF1106HF     | 893                 | 270                 | DF1106DF     | 1227                | 371                 | DF1106TF     |
|                    | 700                | 584                 | 176                 | DF1107SF     | 890                 | 269                 | DF1107HF     | 1116                | 337                 | DF1107DF     | 1534                | 463                 | DF1107TF     |
|                    | 800                | 700                 | 212                 | DF1108SF     | 1067                | 322                 | DF1108HF     | 1339                | 404                 | DF1108DF     | 1841                | 556                 | DF1108TF     |
|                    | 900                | 817                 | 247                 | DF1109SF     | 1245                | 376                 | DF1109HF     | 1562                | 472                 | DF1109DF     | 2148                | 649                 | DF1109TF     |
|                    | 1000               | 934                 | 282                 | DF1110SF     | 1424                | 430                 | DF1110HF     | 1785                | 539                 | DF1110DF     | 2455                | 741                 | DF1110TF     |
|                    | 1100               | 1050                | 317                 | DF1111SF     |                     |                     |              | 2008                | 606                 | DF1111DF     | 2762                | 834                 | DF1111TF     |
|                    | 1200               | 1167                | 352                 | DF1112SF     |                     |                     |              | 2231                | 674                 | DF1112DF     | 3069                | 927                 | DF1112TF     |
|                    | 1300               | 1283                | 388                 | DF1113SF     |                     |                     |              | 2455                | 741                 | DF1113DF     |                     |                     |              |
|                    | 1400               | 1400                | 423                 | DF1114SF     |                     |                     |              | 2677                | 808                 | DF1114DF     |                     |                     |              |
|                    | 1500               |                     |                     |              |                     |                     |              | 2901                | 876                 | DF1115DF     |                     |                     |              |
|                    | 1600               | 1633                | 493                 | DF1116SF     |                     |                     |              | 3124                | 943                 | DF1116DF     |                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

\*Please note: the highlighted lines are on an 13-17 weeks lead time.\*

# DeepClean - Standard Grilles

## Floor Mounted - Sloping Top

### Summary:

#### Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- 5.5mm Punched grille
- Cut-outs programmed into manufacture

#### Emitter:

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar -(tested to 13 bar/188PSI)

#### Sizes

- Single casing length 600mm to 2000mm
- Single casing height 550mm to 1150mm (Type 33 from 450mm)
- Lengths over 2000mm can be achieved but will be modular design so some assembly required on site
- Bespoke solutions available

#### Valve options available:

- Internal TRV kit 9210-13
- External TRV kit 9231-41
- Remote sensing TRV kit 7463-41
- Anti-Ligature TRV kit
- Rotarad rotating valve kit:  
RR04 Single Fin / RR05 Half Fin / RR06 Double Fin (not suitable for Triple Fin radiators)
- Alternative valve patterns and sizes are available upon request

#### Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available
- Patented BioCote® anti-microbial agent as standard

#### Fixings:

- All fixings internal
- 6mm Allen key door locks as standard
- Other secure options available

### Technical Information & Specifications

#### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and the option of a 90degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- An optional Rotarad rotary valve is available (not suitable for Triple Fin radiators)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

#### Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables

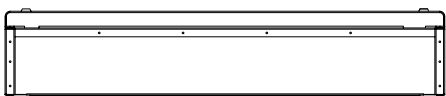
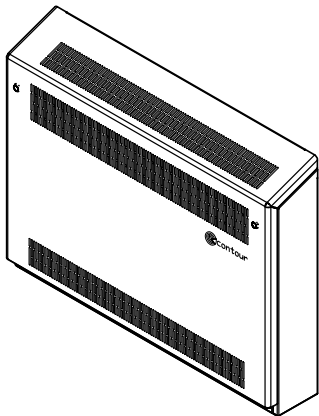
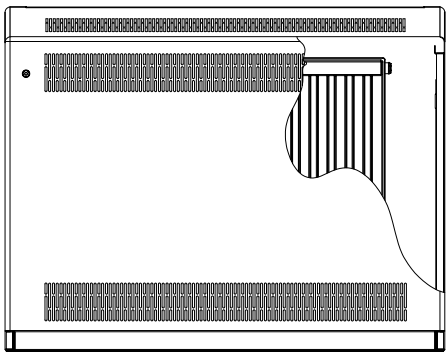
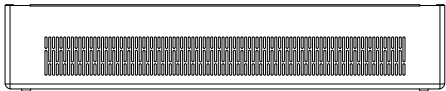
Heat outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To acheive Delta T60 increase T50 figure by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



#### Casing Depth

| Single Fin | Half Fin | Double Fin | Triple Fin |
|------------|----------|------------|------------|
| 145mm      | 165mm    | 200mm      | 260mm      |





DeepClean - Sloped Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 145mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 600                | 600                | 192                 | 58                  | DS6006SF     | 292                 | 88                  | DS6006HF     | 375                 | 113                 | DS6006DF     |                     |                     |              |
|                    | 700                | 241                 | 73                  | DS6007SF     | 365                 | 110                 | DS6007HF     | 468                 | 141                 | DS6007DF     | 647                 | 195                 | DS6007TF     |
|                    | 800                | 289                 | 87                  | DS6008SF     | 438                 | 132                 | DS6008HF     | 562                 | 170                 | DS6008DF     | 776                 | 234                 | DS6008TF     |
|                    | 900                | 337                 | 102                 | DS6009SF     | 511                 | 154                 | DS6009HF     | 655                 | 198                 | DS6009DF     | 905                 | 273                 | DS6009TF     |
|                    | 1000               | 385                 | 116                 | DS6010SF     | 584                 | 176                 | DS6010HF     | 749                 | 226                 | DS6010DF     |                     |                     |              |
|                    | 1100               | 433                 | 131                 | DS6011SF     | 657                 | 198                 | DS6011HF     | 843                 | 255                 | DS6011DF     | 1164                | 352                 | DS6011TF     |
|                    | 1200               | 481                 | 145                 | DS6012SF     | 730                 | 220                 | DS6012HF     | 936                 | 283                 | DS6012DF     | 1293                | 391                 | DS6012TF     |
|                    | 1300               | 530                 | 160                 | DS6013SF     | 803                 | 242                 | DS6013HF     | 1027                | 310                 | DS6013DF     | 1422                | 430                 | DS6013TF     |
|                    | 1400               | 578                 | 174                 | DS6014SF     | 876                 | 264                 | DS6014HF     | 1123                | 339                 | DS6014DF     | 1552                | 469                 | DS6014TF     |
|                    | 1500               | 626                 | 189                 | DS6015SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 674                 | 203                 | DS6016SF     | 1022                | 309                 | DS6016HF     | 1311                | 396                 | DS6016DF     | 1810                | 547                 | DS6016TF     |
|                    | 1800               | 771                 | 233                 | DS6018SF     | 1168                | 353                 | DS6018HF     | 1498                | 452                 | DS6018DF     | 2069                | 625                 | DS6018TF     |
|                    | 2000               | 867                 | 262                 | DS6020SF     | 1314                | 397                 | DS6020HF     | 1686                | 509                 | DS6020DF     | 2327                | 703                 | DS6020TF     |
|                    | 2200               | 963                 | 291                 | DS6022SF     |                     |                     |              | 1873                | 566                 | DS6022DF     | 2586                | 781                 | DS6022TF     |
|                    | 2400               | 1059                | 320                 | DS6024SF     |                     |                     |              | 2059                | 622                 | DS6024DF     |                     |                     |              |
|                    | 2600               | 1155                | 349                 | DS6026SF     |                     |                     |              | 2247                | 679                 | DS6026DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 700                | 600                | 248                 | 75                  | DS7006SF     | 372                 | 112                 | DS7006HF     | 480                 | 145                 | DS7006DF     |                     |                     |              |
|                    | 700                | 311                 | 94                  | DS7007SF     | 465                 | 141                 | DS7007HF     | 600                 | 181                 | DS7007DF     | 829                 | 251                 | DS7007TF     |
|                    | 800                | 372                 | 112                 | DS7008SF     | 558                 | 169                 | DS7008HF     | 719                 | 217                 | DS7008DF     | 995                 | 300                 | DS7008TF     |
|                    | 900                | 434                 | 131                 | DS7009SF     | 651                 | 197                 | DS7009HF     | 839                 | 253                 | DS7009DF     | 1161                | 350                 | DS7009TF     |
|                    | 1000               | 497                 | 150                 | DS7010SF     | 744                 | 225                 | DS7010HF     | 959                 | 290                 | DS7010DF     | 1326                | 400                 | DS7010TF     |
|                    | 1100               | 558                 | 169                 | DS7011SF     | 837                 | 253                 | DS7011HF     | 1079                | 326                 | DS7011DF     | 1493                | 451                 | DS7011TF     |
|                    | 1200               | 620                 | 187                 | DS7012SF     | 930                 | 281                 | DS7012HF     | 1199                | 362                 | DS7012DF     | 1658                | 501                 | DS7012TF     |
|                    | 1300               | 683                 | 206                 | DS7013SF     | 1024                | 309                 | DS7013HF     | 1319                | 398                 | DS7013DF     | 1824                | 551                 | DS7013TF     |
|                    | 1400               | 744                 | 225                 | DS7014SF     | 1116                | 337                 | DS7014HF     | 1438                | 434                 | DS7014DF     | 1990                | 601                 | DS7014TF     |
|                    | 1500               | 806                 | 244                 | DS7015SF     | 1210                | 365                 | DS7015HF     | 1558                | 471                 | DS7015DF     |                     |                     |              |
|                    | 1600               | 869                 | 262                 | DS7016SF     | 1302                | 393                 | DS7016HF     | 1679                | 507                 | DS7016DF     |                     |                     |              |
|                    | 1700               | 931                 | 281                 | DS7017SF     | 1396                | 421                 | DS7017HF     | 1799                | 543                 | DS7017DF     |                     |                     |              |
|                    | 1800               | 992                 | 300                 | DS7018SF     | 1488                | 449                 | DS7018HF     | 1918                | 579                 | DS7018DF     | 2653                | 1016                | DS7018TF     |
|                    | 2000               | 1117                | 337                 | DS7020SF     | 1674                | 506                 | DS7020HF     | 2158                | 652                 | DS7020DF     | 2984                | 1143                | DS7020TF     |
|                    | 2200               | 1241                | 375                 | DS7022SF     | 1860                | 562                 | DS7022HF     | 2398                | 724                 | DS7022DF     | 3316                | 1270                | DS7022TF     |
|                    | 2400               | 1364                | 412                 | DS7024SF     | 2046                | 618                 | DS7024HF     | 2637                | 796                 | DS7024DF     | 3648                | 1397                | DS7024TF     |
|                    | 2600               | 1489                | 450                 | DS7026SF     | 2232                | 674                 | DS7026HF     | 2877                | 869                 | DS7026DF     |                     |                     |              |

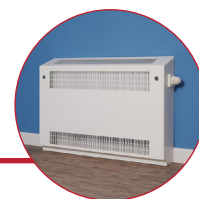
DeepClean - Sloped Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 145mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 800                | 500                | 223                 | 67                  | DS8005SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 298                 | 90                  | DS8006SF     | 448                 | 135                 | DS8006HF     | 577                 | 174                 | DS8006DF     |                     |                     |              |
|                    | 700                | 373                 | 113                 | DS8007SF     | 560                 | 169                 | DS8007HF     | 721                 | 218                 | DS8007DF     | 997                 | 301                 | DS8007TF     |
|                    | 800                | 448                 | 135                 | DS8008SF     | 671                 | 203                 | DS8008HF     | 864                 | 261                 | DS8008DF     | 1195                | 361                 | DS8008TF     |
|                    | 900                | 522                 | 158                 | DS8009SF     | 783                 | 237                 | DS8009HF     | 1008                | 305                 | DS8009DF     | 1395                | 421                 | DS8009TF     |
|                    | 1000               | 596                 | 180                 | DS8010SF     | 895                 | 270                 | DS8010HF     | 1153                | 348                 | DS8010DF     | 1594                | 481                 | DS8010TF     |
|                    | 1100               | 671                 | 203                 | DS8011SF     | 1007                | 304                 | DS8011HF     | 1297                | 392                 | DS8011DF     | 1793                | 542                 | DS8011TF     |
|                    | 1200               | 746                 | 225                 | DS8012SF     | 1119                | 338                 | DS8012HF     | 1441                | 435                 | DS8012DF     | 1993                | 602                 | DS8012TF     |
|                    | 1300               | 821                 | 248                 | DS8013SF     | 1231                | 372                 | DS8013HF     | 1585                | 479                 | DS8013DF     | 2192                | 662                 | DS8013TF     |
|                    | 1400               | 895                 | 270                 | DS8014SF     | 1342                | 405                 | DS8014HF     | 1729                | 522                 | DS8014DF     | 2391                | 722                 | DS8014TF     |
|                    | 1500               | 969                 | 293                 | DS8015SF     | 1454                | 439                 | DS8015HF     | 1873                | 566                 | DS8015DF     | 2591                | 782                 | DS8015TF     |
|                    | 1600               | 1044                | 315                 | DS8016SF     | 1566                | 473                 | DS8016HF     | 2018                | 609                 | DS8016DF     | 2790                | 843                 | DS8016TF     |
|                    | 1700               | 1119                | 338                 | DS8017SF     | 1679                | 507                 | DS8017HF     | 2162                | 653                 | DS8017DF     |                     |                     |              |
|                    | 1800               | 1193                | 360                 | DS8018SF     | 1790                | 541                 | DS8018HF     | 2305                | 696                 | DS8018DF     |                     |                     |              |
|                    | 2000               | 1342                | 405                 | DS8020SF     | 2014                | 608                 | DS8020HF     | 2593                | 783                 | DS8020DF     | 3587                | 1083                | DS8020TF     |
|                    | 2200               | 1492                | 450                 | DS8022SF     | 2237                | 676                 | DS8022HF     | 2882                | 870                 | DS8022DF     | 3985                | 1204                | DS8022TF     |
|                    | 2400               | 1641                | 496                 | DS8024SF     | 2461                | 743                 | DS8024HF     | 3170                | 957                 | DS8024DF     | 4384                | 1324                | DS8024TF     |
|                    | 2600               | 1790                | 541                 | DS8026SF     | 2685                | 811                 | DS8026HF     | 3459                | 1044                | DS8026DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 900                | 500                | 259                 | 78                  | DS9005SF     | 389                 | 117                 | DS9005HF     | 499                 | 151                 | DS9005DF     |                     |                     |              |
|                    | 600                | 345                 | 104                 | DS9006SF     | 519                 | 157                 | DS9006HF     | 666                 | 201                 | DS9006DF     | 920                 | 278                 | DS9006TF     |
|                    | 700                | 432                 | 130                 | DS9007SF     | 649                 | 196                 | DS9007HF     | 832                 | 251                 | DS9007DF     | 1150                | 347                 | DS9007TF     |
|                    | 800                | 518                 | 156                 | DS9008SF     | 778                 | 235                 | DS9008HF     | 998                 | 301                 | DS9008DF     | 1380                | 417                 | DS9008TF     |
|                    | 900                | 604                 | 183                 | DS9009SF     | 908                 | 274                 | DS9009HF     | 1164                | 352                 | DS9009DF     | 1610                | 486                 | DS9009TF     |
|                    | 1000               | 691                 | 209                 | DS9010SF     | 1038                | 313                 | DS9010HF     | 1331                | 402                 | DS9010DF     | 1840                | 556                 | DS9010TF     |
|                    | 1100               | 777                 | 235                 | DS9011SF     | 1167                | 352                 | DS9011HF     | 1497                | 452                 | DS9011DF     | 2070                | 625                 | DS9011TF     |
|                    | 1200               | 863                 | 261                 | DS9012SF     | 1297                | 392                 | DS9012HF     | 1663                | 502                 | DS9012DF     | 2300                | 695                 | DS9012TF     |
|                    | 1300               | 950                 | 287                 | DS9013SF     | 1427                | 431                 | DS9013HF     | 1830                | 553                 | DS9013DF     | 2529                | 764                 | DS9013TF     |
|                    | 1400               | 1036                | 313                 | DS9014SF     | 1556                | 470                 | DS9014HF     | 1996                | 603                 | DS9014DF     | 2760                | 833                 | DS9014TF     |
|                    | 1500               | 1122                | 339                 | DS9015SF     | 1686                | 509                 | DS9015HF     | 2163                | 653                 | DS9015DF     |                     |                     |              |
|                    | 1600               | 1209                | 365                 | DS9016SF     | 1816                | 548                 | DS9016HF     | 2329                | 703                 | DS9016DF     | 3220                | 972                 | DS9016TF     |
|                    | 1700               | 1295                | 391                 | DS9017SF     | 1946                | 588                 | DS9017HF     | 2496                | 754                 | DS9017DF     |                     |                     |              |
|                    | 1800               | 1381                | 417                 | DS9018SF     | 2075                | 627                 | DS9018HF     | 2661                | 804                 | DS9018DF     | 3679                | 1111                | DS9018TF     |
|                    | 2000               | 1554                | 469                 | DS9020SF     | 2334                | 705                 | DS9020HF     | 2994                | 904                 | DS9020DF     | 4139                | 1250                | DS9020TF     |
|                    | 2200               | 1727                | 521                 | DS9022SF     | 2593                | 783                 | DS9022HF     | 3327                | 1005                | DS9022DF     | 4600                | 1389                | DS9022TF     |
|                    | 2400               | 1899                | 574                 | DS9024SF     | 2852                | 861                 | DS9024HF     | 3660                | 1105                | DS9024DF     |                     |                     |              |
|                    | 2600               | 2072                | 626                 | DS9026SF     | 3112                | 940                 | DS9026HF     | 3993                | 1206                | DS9026DF     |                     |                     |              |

# DeepClean - Sloped Top - Standard Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22

TF/Type 33



Casing Depths

145mm

165mm

200mm

260mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1000               | 600                | 389                 | 117                 | DS1006SF     | 587                 | 177                 | DS1006HF     | 748                 | 226                 | DS1006DF     | 1032                | 312                 | DS1006TF     |
|                    | 700                | 487                 | 147                 | DS1007SF     | 733                 | 221                 | DS1007HF     | 935                 | 282                 | DS1007DF     | 1291                | 390                 | DS1007TF     |
|                    | 800                | 584                 | 176                 | DS1008SF     | 879                 | 266                 | DS1008HF     | 1121                | 339                 | DS1008DF     | 1548                | 467                 | DS1008TF     |
|                    | 900                | 681                 | 206                 | DS1009SF     | 1026                | 310                 | DS1009HF     | 1308                | 395                 | DS1009DF     | 1806                | 545                 | DS1009TF     |
|                    | 1000               | 778                 | 235                 | DS1010SF     | 1173                | 354                 | DS1010HF     | 1495                | 452                 | DS1010DF     | 2064                | 623                 | DS1010TF     |
|                    | 1100               | 876                 | 264                 | DS1011SF     | 1319                | 398                 | DS1011HF     | 1682                | 508                 | DS1011DF     | 2322                | 701                 | DS1011TF     |
|                    | 1200               | 973                 | 294                 | DS1012SF     | 1466                | 443                 | DS1012HF     | 1869                | 564                 | DS1012DF     | 2580                | 779                 | DS1012TF     |
|                    | 1300               | 1070                | 323                 | DS1013SF     | 1613                | 487                 | DS1013HF     | 2056                | 621                 | DS1013DF     | 2838                | 857                 | DS1013TF     |
|                    | 1400               | 1168                | 353                 | DS1014SF     | 1759                | 531                 | DS1014HF     | 2243                | 677                 | DS1014DF     | 3096                | 935                 | DS1014TF     |
|                    | 1500               | 1265                | 382                 | DS1015SF     | 1905                | 575                 | DS1015HF     | 2430                | 734                 | DS1015DF     |                     |                     |              |
|                    | 1600               | 1362                | 411                 | DS1016SF     | 2052                | 620                 | DS1016HF     | 2617                | 790                 | DS1016DF     | 3613                | 1091                | DS1016TF     |
|                    | 1700               | 1460                | 441                 | DS1017SF     |                     |                     |              | 2804                | 847                 | DS1017DF     |                     |                     |              |
|                    | 1800               | 1557                | 470                 | DS1018SF     | 2345                | 708                 | DS1018HF     | 2990                | 903                 | DS1018DF     | 4128                | 1247                | DS1018TF     |
|                    | 2000               | 1751                | 529                 | DS1020SF     | 2639                | 797                 | DS1020HF     | 3364                | 1016                | DS1020DF     |                     |                     |              |
|                    | 2200               | 1946                | 588                 | DS1022SF     |                     |                     |              | 3738                | 1129                | DS1022DF     |                     |                     |              |
|                    | 2400               | 2140                | 646                 | DS1024SF     |                     |                     |              | 4112                | 1242                | DS1024DF     |                     |                     |              |
|                    | 2600               | 2334                | 705                 | DS1026SF     |                     |                     |              | 4486                | 1355                | DS1026DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1200               | 600                | 466                 | 141                 | DS1206SF     | 712                 | 215                 | DS1206HF     | 893                 | 270                 | DS1206DF     | 1227                | 371                 | DS1206TF     |
|                    | 700                | 584                 | 176                 | DS1207SF     | 890                 | 269                 | DS1207HF     | 1116                | 337                 | DS1207DF     | 1534                | 463                 | DS1207TF     |
|                    | 800                | 700                 | 212                 | DS1208SF     | 1067                | 322                 | DS1208HF     | 1339                | 404                 | DS1208DF     | 1841                | 556                 | DS1208TF     |
|                    | 900                | 817                 | 247                 | DS1209SF     | 1245                | 376                 | DS1209HF     | 1562                | 472                 | DS1209DF     | 2148                | 649                 | DS1209TF     |
|                    | 1000               | 934                 | 282                 | DS1210SF     | 1424                | 430                 | DS1210HF     | 1785                | 539                 | DS1210DF     | 2455                | 741                 | DS1210TF     |
|                    | 1100               | 1050                | 317                 | DS1211SF     |                     |                     |              | 2008                | 606                 | DS1211DF     | 2762                | 834                 | DS1211TF     |
|                    | 1200               | 1167                | 352                 | DS1212SF     |                     |                     |              | 2231                | 674                 | DS1212DF     | 3069                | 927                 | DS1212TF     |
|                    | 1300               | 1283                | 388                 | DS1213SF     |                     |                     |              | 2455                | 741                 | DS1213DF     |                     |                     |              |
|                    | 1400               | 1400                | 423                 | DS1214SF     |                     |                     |              | 2677                | 808                 | DS1214DF     |                     |                     |              |
|                    | 1500               |                     |                     |              |                     |                     |              | 2901                | 876                 | DS1215DF     |                     |                     |              |
|                    | 1600               | 1633                | 493                 | DS1216SF     |                     |                     |              | 3124                | 943                 | DS1216DF     |                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

\*Please note: the highlighted lines are on an 13-17 weeks lead time.\*



# DeepClean - Standard Grilles

## Wall Mounted - Flat Top

### Summary:

#### Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- 5.5mm Punched grille
- Cut-outs programmed into manufacture
- Base Plate to underside of cover

#### Emitter:

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar -(tested to 13 bar/188PSI)

#### Sizes

- Single casing length 600mm to 2000mm
- Single casing height 550mm to 1150mm
- Lengths over 2000mm can be achieved but will be modular design so some assembly required on site
- Bespoke solutions available

#### Valve options available:

- Internal TRV kit 9210-13
- External TRV kit 9330-41
- Remote sensing TRV kit 7463-41
- Anti-Ligature TRV kit
- Rotarad rotating valve kit:
- RR04 Single Fin / RR05 Half Fin / RR06 Double Fin (not suitable for Triple Fin radiators))
- Alternative valve patterns and sizes are available upon request

#### Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available Patented BioCote® anti-microbial agent as standard

#### Fixings:

- All fixings internal
- 6mm Allen key door locks as standard
- Other options available

### Technical Information & Specifications

#### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and the option of a 90 degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- An optional Rotarad rotary valve is available (not suitable for Triple Fin radiators)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

#### Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables

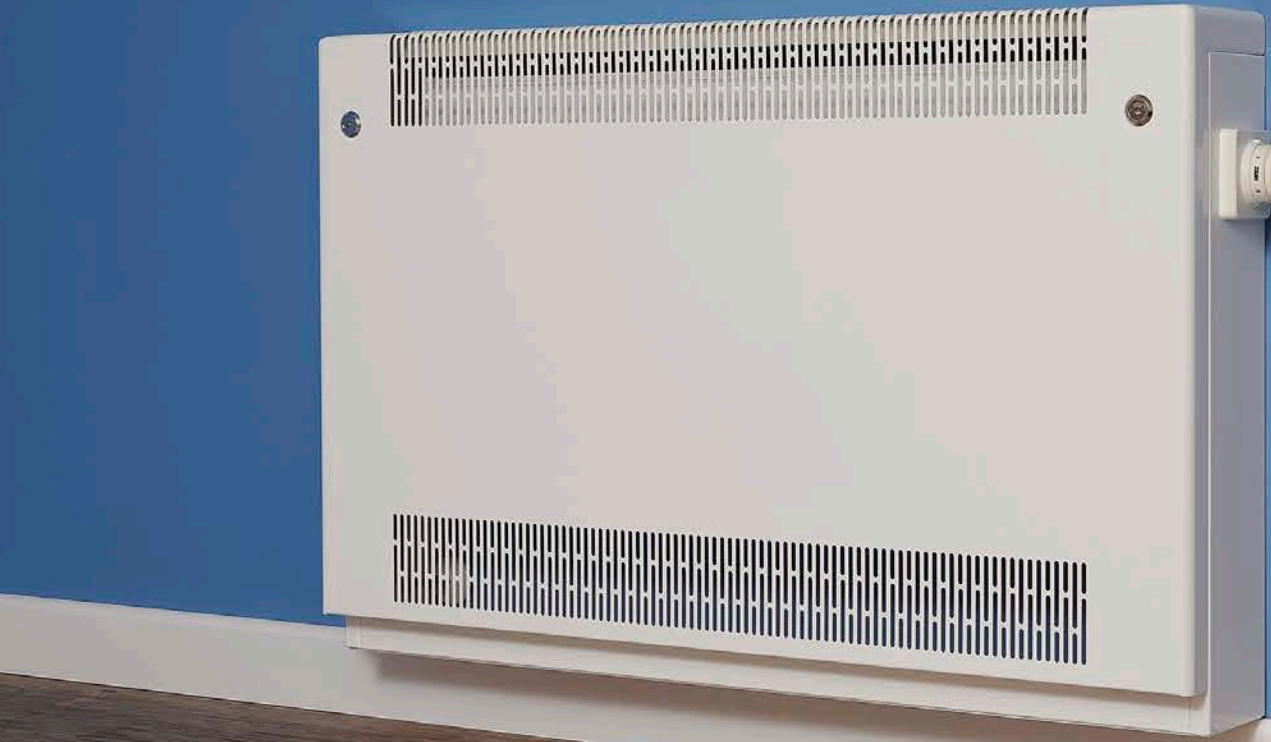
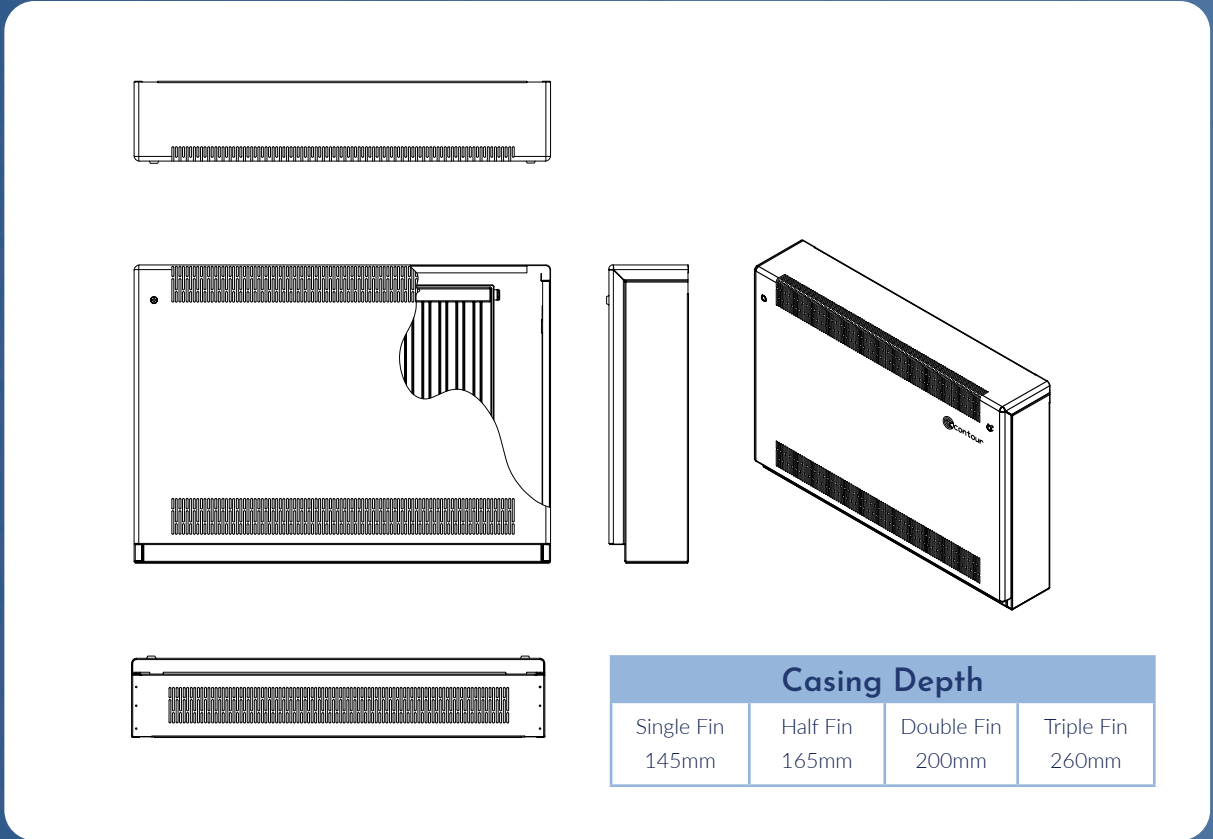
Heat outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

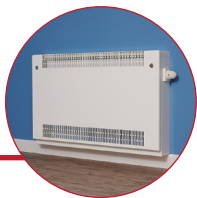
To acheive Delta T60 increase T50 figure by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



DeepClean - Flat Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 145mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 550                | 600                | 192                 | 58                  | DF5506SF     | 292                 | 88                  | DF5506HF     | 375                 | 113                 | DF5506DF     |                     |                     |              |
|                    | 700                | 241                 | 73                  | DF5507SF     | 365                 | 110                 | DF5507HF     | 468                 | 141                 | DF5507DF     | 647                 | 195                 | DF5507TF     |
|                    | 800                | 289                 | 87                  | DF5508SF     | 438                 | 132                 | DF5508HF     | 562                 | 170                 | DF5508DF     | 776                 | 234                 | DF5508TF     |
|                    | 900                | 337                 | 102                 | DF5509SF     | 511                 | 154                 | DF5509HF     | 655                 | 198                 | DF5509DF     | 905                 | 273                 | DF5509TF     |
|                    | 1000               | 385                 | 116                 | DF5510SF     | 584                 | 176                 | DF5510HF     | 749                 | 226                 | DF5510DF     |                     |                     |              |
|                    | 1100               | 433                 | 131                 | DF5511SF     | 657                 | 198                 | DF5511HF     | 843                 | 255                 | DF5511DF     | 1164                | 352                 | DF5511TF     |
|                    | 1200               | 481                 | 145                 | DF5512SF     | 730                 | 220                 | DF5512HF     | 936                 | 283                 | DF5512DF     | 1293                | 391                 | DF5512TF     |
|                    | 1300               | 530                 | 160                 | DF5513SF     | 803                 | 242                 | DF5513HF     | 1027                | 310                 | DF5513DF     | 1422                | 430                 | DF5513TF     |
|                    | 1400               | 578                 | 174                 | DF5514SF     | 876                 | 264                 | DF5514HF     | 1123                | 339                 | DF5514DF     | 1552                | 469                 | DF5514TF     |
|                    | 1500               | 626                 | 189                 | DF5515SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 674                 | 203                 | DF5516SF     | 1022                | 309                 | DF5516HF     | 1311                | 396                 | DF5516DF     | 1810                | 547                 | DF5516TF     |
|                    | 1800               | 771                 | 233                 | DF5518SF     | 1168                | 353                 | DF5518HF     | 1498                | 452                 | DF5518DF     | 2069                | 625                 | DF5518TF     |
|                    | 2000               | 867                 | 262                 | DF5520SF     | 1314                | 397                 | DF5520HF     | 1686                | 509                 | DF5520DF     | 2327                | 703                 | DF5520TF     |
|                    | 2200               | 963                 | 291                 | DF5522SF     |                     |                     |              | 1873                | 566                 | DF5522DF     | 2586                | 781                 | DF5522TF     |
|                    | 2400               | 1059                | 320                 | DF5524SF     |                     |                     |              | 2059                | 622                 | DF5524DF     |                     |                     |              |
|                    | 2600               | 1155                | 349                 | DF5526SF     |                     |                     |              | 2247                | 679                 | DF5526DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 650                | 600                | 248                 | 75                  | DF6506SF     | 372                 | 112                 | DF6506HF     | 480                 | 145                 | DF6506DF     |                     |                     |              |
|                    | 700                | 311                 | 94                  | DF6507SF     | 465                 | 141                 | DF6507HF     | 600                 | 181                 | DF6507DF     | 829                 | 251                 | DF6507TF     |
|                    | 800                | 372                 | 112                 | DF6508SF     | 558                 | 169                 | DF6508HF     | 719                 | 217                 | DF6508DF     | 995                 | 300                 | DF6508TF     |
|                    | 900                | 434                 | 131                 | DF6509SF     | 651                 | 197                 | DF6509HF     | 839                 | 253                 | DF6509DF     | 1161                | 350                 | DF6509TF     |
|                    | 1000               | 497                 | 150                 | DF6510SF     | 744                 | 225                 | DF6510HF     | 959                 | 290                 | DF6510DF     | 1326                | 400                 | DF6510TF     |
|                    | 1100               | 558                 | 169                 | DF6511SF     | 837                 | 253                 | DF6511HF     | 1079                | 326                 | DF6511DF     | 1493                | 451                 | DF6511TF     |
|                    | 1200               | 620                 | 187                 | DF6512SF     | 930                 | 281                 | DF6512HF     | 1199                | 362                 | DF6512DF     | 1658                | 501                 | DF6512TF     |
|                    | 1300               | 683                 | 206                 | DF6513SF     | 1024                | 309                 | DF6513HF     | 1319                | 398                 | DF6513DF     | 1824                | 551                 | DF6513TF     |
|                    | 1400               | 744                 | 225                 | DF6514SF     | 1116                | 337                 | DF6514HF     | 1438                | 434                 | DF6514DF     | 1990                | 601                 | DF6514TF     |
|                    | 1500               | 806                 | 244                 | DF6515SF     | 1210                | 365                 | DF6515HF     | 1558                | 471                 | DF6515DF     |                     |                     |              |
|                    | 1600               | 869                 | 262                 | DF6516SF     | 1302                | 393                 | DF6516HF     | 1679                | 507                 | DF6516DF     |                     |                     |              |
|                    | 1700               | 931                 | 281                 | DF6517SF     | 1396                | 421                 | DF6517HF     | 1799                | 543                 | DF6517DF     |                     |                     |              |
|                    | 1800               | 992                 | 300                 | DF6518SF     | 1488                | 449                 | DF6518HF     | 1918                | 579                 | DF6518DF     | 2653                | 801                 | DF6518TF     |
|                    | 2000               | 1117                | 337                 | DF6520SF     | 1674                | 506                 | DF6520HF     | 2158                | 652                 | DF6520DF     | 2984                | 901                 | DF6520TF     |
|                    | 2200               | 1241                | 375                 | DF6522SF     | 1860                | 562                 | DF6522HF     | 2398                | 724                 | DF6522DF     | 3316                | 1001                | DF6522TF     |
|                    | 2400               | 1364                | 412                 | DF6524SF     | 2046                | 618                 | DF6524HF     | 2637                | 796                 | DF6524DF     | 3648                | 1102                | DF6524TF     |
|                    | 2600               | 1489                | 450                 | DF6526SF     | 2232                | 674                 | DF6526HF     | 2877                | 869                 | DF6526DF     |                     |                     |              |

DeepClean - Flat Top - Standard Grilles

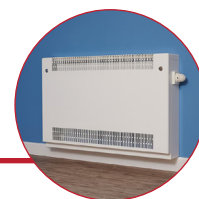


| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 145mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 750                | 500                | 223                 | 67                  | DF7505SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 298                 | 90                  | DF7506SF     | 448                 | 135                 | DF7506HF     | 577                 | 174                 | DF7506DF     |                     |                     |              |
|                    | 700                | 373                 | 113                 | DF7507SF     | 560                 | 169                 | DF7507HF     | 721                 | 218                 | DF7507DF     | 997                 | 301                 | DF7507TF     |
|                    | 800                | 448                 | 135                 | DF7508SF     | 671                 | 203                 | DF7508HF     | 864                 | 261                 | DF7508DF     | 1195                | 361                 | DF7508TF     |
|                    | 900                | 522                 | 158                 | DF7509SF     | 783                 | 237                 | DF7509HF     | 1008                | 305                 | DF7509DF     | 1395                | 421                 | DF7509TF     |
|                    | 1000               | 596                 | 180                 | DF7510SF     | 895                 | 270                 | DF7510HF     | 1153                | 348                 | DF7510DF     | 1594                | 481                 | DF7510TF     |
|                    | 1100               | 671                 | 203                 | DF7511SF     | 1007                | 304                 | DF7511HF     | 1297                | 392                 | DF7511DF     | 1793                | 542                 | DF7511TF     |
|                    | 1200               | 746                 | 225                 | DF7512SF     | 1119                | 338                 | DF7512HF     | 1441                | 435                 | DF7512DF     | 1993                | 602                 | DF7512TF     |
|                    | 1300               | 821                 | 248                 | DF7513SF     | 1231                | 372                 | DF7513HF     | 1585                | 479                 | DF7513DF     | 2192                | 662                 | DF7513TF     |
|                    | 1400               | 895                 | 270                 | DF7514SF     | 1342                | 405                 | DF7514HF     | 1729                | 522                 | DF7514DF     | 2391                | 722                 | DF7514TF     |
|                    | 1500               | 969                 | 293                 | DF7515SF     | 1454                | 439                 | DF7515HF     | 1873                | 566                 | DF7515DF     | 2591                | 782                 | DF7515TF     |
|                    | 1600               | 1044                | 315                 | DF7516SF     | 1566                | 473                 | DF7516HF     | 2018                | 609                 | DF7516DF     | 2790                | 843                 | DF7516TF     |
|                    | 1700               | 1119                | 338                 | DF7517SF     | 1679                | 507                 | DF7517HF     | 2162                | 653                 | DF7517DF     |                     |                     |              |
|                    | 1800               | 1193                | 360                 | DF7518SF     | 1790                | 541                 | DF7518HF     | 2305                | 696                 | DF7518DF     |                     |                     |              |
|                    | 2000               | 1342                | 405                 | DF7520SF     | 2014                | 608                 | DF7520HF     | 2593                | 783                 | DF7520DF     | 3587                | 1083                | DF7520TF     |
|                    | 2200               | 1492                | 450                 | DF7522SF     | 2237                | 676                 | DF7522HF     | 2882                | 870                 | DF7522DF     | 3985                | 1204                | DF7522TF     |
|                    | 2400               | 1641                | 496                 | DF7524SF     | 2461                | 743                 | DF7524HF     | 3170                | 957                 | DF7524DF     | 4384                | 1324                | DF7524TF     |
|                    | 2600               | 1790                | 541                 | DF7526SF     | 2685                | 811                 | DF7526HF     | 3459                | 1044                | DF7526DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 850                | 500                | 259                 | 78                  | DF8505SF     | 389                 | 117                 | DF8505HF     | 499                 | 151                 | DF8505DF     |                     |                     |              |
|                    | 600                | 345                 | 104                 | DF8506SF     | 519                 | 157                 | DF8506HF     | 666                 | 201                 | DF8506DF     | 920                 | 278                 | DF8506TF     |
|                    | 700                | 432                 | 130                 | DF8507SF     | 649                 | 196                 | DF8507HF     | 832                 | 251                 | DF8507DF     | 1150                | 347                 | DF8507TF     |
|                    | 800                | 518                 | 156                 | DF8508SF     | 778                 | 235                 | DF8508HF     | 998                 | 301                 | DF8508DF     | 1380                | 417                 | DF8508TF     |
|                    | 900                | 604                 | 183                 | DF8509SF     | 908                 | 274                 | DF8509HF     | 1164                | 352                 | DF8509DF     | 1610                | 486                 | DF8509TF     |
|                    | 1000               | 691                 | 209                 | DF8510SF     | 1038                | 313                 | DF8510HF     | 1331                | 402                 | DF8510DF     | 1840                | 556                 | DF8510TF     |
|                    | 1100               | 777                 | 235                 | DF8511SF     | 1167                | 352                 | DF8511HF     | 1497                | 452                 | DF8511DF     | 2070                | 625                 | DF8511TF     |
|                    | 1200               | 863                 | 261                 | DF8512SF     | 1297                | 392                 | DF8512HF     | 1663                | 502                 | DF8512DF     | 2300                | 695                 | DF8512TF     |
|                    | 1300               | 950                 | 287                 | DF8513SF     | 1427                | 431                 | DF8513HF     | 1830                | 553                 | DF8513DF     | 2529                | 764                 | DF8513TF     |
|                    | 1400               | 1036                | 313                 | DF8514SF     | 1556                | 470                 | DF8514HF     | 1996                | 603                 | DF8514DF     | 2760                | 833                 | DF8514TF     |
|                    | 1500               | 1122                | 339                 | DF8515SF     | 1686                | 509                 | DF8515HF     | 2163                | 653                 | DF8515DF     |                     |                     |              |
|                    | 1600               | 1209                | 365                 | DF8516SF     | 1816                | 548                 | DF8516HF     | 2329                | 703                 | DF8516DF     | 3220                | 972                 | DF8516TF     |
|                    | 1700               | 1295                | 391                 | DF8517SF     | 1946                | 588                 | DF8517HF     | 2496                | 754                 | DF8517DF     |                     |                     |              |
|                    | 1800               | 1381                | 417                 | DF8518SF     | 2075                | 627                 | DF8518HF     | 2661                | 804                 | DF8518DF     | 3679                | 1111                | DF8518TF     |
|                    | 2000               | 1554                | 469                 | DF8520SF     | 2334                | 705                 | DF8520HF     | 2994                | 904                 | DF8520DF     | 4139                | 1250                | DF8520TF     |
|                    | 2200               | 1727                | 521                 | DF8522SF     | 2593                | 783                 | DF8522HF     | 3327                | 1005                | DF8522DF     | 4600                | 1389                | DF8522TF     |
|                    | 2400               | 1899                | 574                 | DF8524SF     | 2852                | 861                 | DF8524HF     | 3660                | 1105                | DF8524DF     |                     |                     |              |
|                    | 2600               | 2072                | 626                 | DF8526SF     | 3112                | 940                 | DF8526HF     | 3993                | 1206                | DF8526DF     |                     |                     |              |



# DeepClean - Flat Top - Standard Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22

TF/Type 33



Casing Depths

145mm

165mm

200mm

260mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 950                | 600                | 389                 | 117                 | DF9506SF     | 587                 | 177                 | DF9506HF     | 748                 | 226                 | DF9506DF     | 1032                | 312                 | DF9506TF     |
|                    | 700                | 487                 | 147                 | DF9507SF     | 733                 | 221                 | DF9507HF     | 935                 | 282                 | DF9507DF     | 1291                | 390                 | DF9507TF     |
|                    | 800                | 584                 | 176                 | DF9508SF     | 879                 | 266                 | DF9508HF     | 1121                | 339                 | DF9508DF     | 1548                | 467                 | DF9508TF     |
|                    | 900                | 681                 | 206                 | DF9509SF     | 1026                | 310                 | DF9509HF     | 1308                | 395                 | DF9509DF     | 1806                | 545                 | DF9509TF     |
|                    | 1000               | 778                 | 235                 | DF9510SF     | 1173                | 354                 | DF9510HF     | 1495                | 452                 | DF9510DF     | 2064                | 623                 | DF9510TF     |
|                    | 1100               | 876                 | 264                 | DF9511SF     | 1319                | 398                 | DF9511HF     | 1682                | 508                 | DF9511DF     | 2322                | 701                 | DF9511TF     |
|                    | 1200               | 973                 | 294                 | DF9512SF     | 1466                | 443                 | DF9512HF     | 1869                | 564                 | DF9512DF     | 2580                | 779                 | DF9512TF     |
|                    | 1300               | 1070                | 323                 | DF9513SF     | 1613                | 487                 | DF9513HF     | 2056                | 621                 | DF9513DF     | 2838                | 857                 | DF9513TF     |
|                    | 1400               | 1168                | 353                 | DF9514SF     | 1759                | 531                 | DF9514HF     | 2243                | 677                 | DF9514DF     | 3096                | 935                 | DF9514TF     |
|                    | 1500               | 1265                | 382                 | DF9515SF     | 1905                | 575                 | DF9515HF     | 2430                | 734                 | DF9515DF     |                     |                     |              |
|                    | 1600               | 1362                | 411                 | DF9516SF     | 2052                | 620                 | DF9516HF     | 2617                | 790                 | DF9516DF     | 3613                | 1091                | DF9516TF     |
|                    | 1700               | 1460                | 441                 | DF9517SF     |                     |                     |              | 2804                | 847                 | DF9517DF     |                     |                     |              |
|                    | 1800               | 1557                | 470                 | DF9518SF     | 2345                | 708                 | DF9518HF     | 2990                | 903                 | DF9518DF     | 4128                | 1247                | DF9518TF     |
|                    | 2000               | 1751                | 529                 | DF9520SF     | 2639                | 797                 | DF9520HF     | 3364                | 1016                | DF9520DF     |                     |                     |              |
|                    | 2200               | 1946                | 588                 | DF9522SF     |                     |                     |              | 3738                | 1129                | DF9522DF     |                     |                     |              |
|                    | 2400               | 2140                | 646                 | DF9524SF     |                     |                     |              | 4112                | 1242                | DF9524DF     |                     |                     |              |
|                    | 2600               | 2334                | 705                 | DF9526SF     |                     |                     |              | 4486                | 1355                | DF9526DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1150               | 600                | 466                 | 141                 | DF1106SF     | 712                 | 215                 | DF1106HF     | 893                 | 270                 | DF1106DF     | 1227                | 371                 | DF1106TF     |
|                    | 700                | 584                 | 176                 | DF1107SF     | 890                 | 269                 | DF1107HF     | 1116                | 337                 | DF1107DF     | 1534                | 463                 | DF1107TF     |
|                    | 800                | 700                 | 212                 | DF1108SF     | 1067                | 322                 | DF1108HF     | 1339                | 404                 | DF1108DF     | 1841                | 556                 | DF1108TF     |
|                    | 900                | 817                 | 247                 | DF1109SF     | 1245                | 376                 | DF1109HF     | 1562                | 472                 | DF1109DF     | 2148                | 649                 | DF1109TF     |
|                    | 1000               | 934                 | 282                 | DF1110SF     | 1424                | 430                 | DF1110HF     | 1785                | 539                 | DF1110DF     | 2455                | 741                 | DF1110TF     |
|                    | 1100               | 1050                | 317                 | DF1111SF     |                     |                     |              | 2008                | 606                 | DF1111DF     | 2762                | 834                 | DF1111TF     |
|                    | 1200               | 1167                | 352                 | DF1112SF     |                     |                     |              | 2231                | 674                 | DF1112DF     | 3069                | 927                 | DF1112TF     |
|                    | 1300               | 1283                | 388                 | DF1113SF     |                     |                     |              | 2455                | 741                 | DF1113DF     |                     |                     |              |
|                    | 1400               | 1400                | 423                 | DF1114SF     |                     |                     |              | 2677                | 808                 | DF1114DF     |                     |                     |              |
|                    | 1500               |                     |                     |              |                     |                     |              | 2901                | 876                 | DF1115DF     |                     |                     |              |
|                    | 1600               | 1633                | 493                 | DF1116SF     |                     |                     |              | 3124                | 943                 | DF1116DF     |                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

\*Please note: the highlighted lines are on an 13-17 weeks lead time.\*

# Deepclean - Standard Grilles

## Wall Mounted - Sloping Top

### Summary:

#### Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- 5.5mm Punched grille
- Cut-outs programmed into manufacture
- Base Plate to underside of cover

#### Emitter:

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar -(tested to 13 bar/188PSI)

#### Sizes

- Single casing length 600mm to 2000mm
- Single casing height 550mm to 1150mm
- Lengths over 2000mm can be achieved but will be modular design so some assembly required on site
- Bespoke solutions available

#### Valve options available:

- Internal TRV kit 9210-13
- External TRV kit 9330-41
- Remote sensing TRV kit 7463-41
- Anti-Ligature TRV kit
- Rotarad rotating valve kit:  
RR04 Single Fin / RR05 Half Fin / RR06 Double Fin (not suitable for Triple Fin radiators)
- Alternative valve patterns and sizes are available upon request

#### Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available Patented BioCote® anti-microbial agent as standard

#### Fixings:

- All fixings internal
- 6mm Allen key door locks as standard
- Other secure options available

### Technical Information & Specifications

#### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and the option of a 90 degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- An optional Rotarad rotary valve is available (not suitable for Triple Fin radiators)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

#### Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables

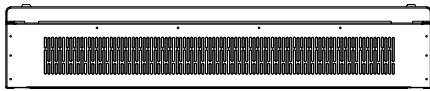
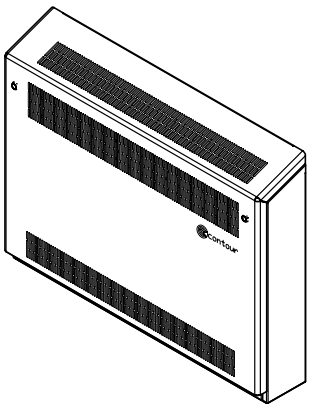
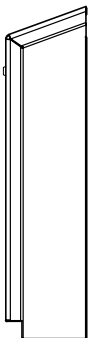
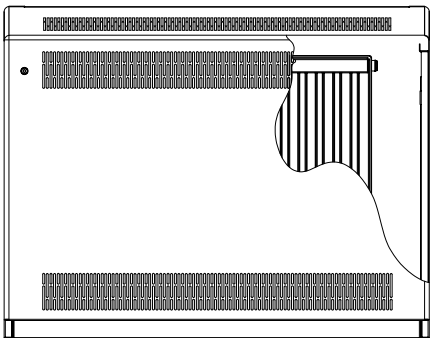
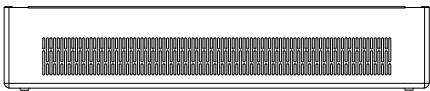
Heat outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To acheive Delta T60 increase T50 figure by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



#### Casing Depth

| Single Fin | Half Fin | Double Fin | Triple Fin |
|------------|----------|------------|------------|
| 145mm      | 165mm    | 200mm      | 260mm      |





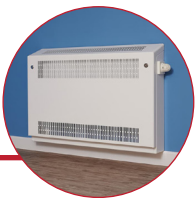
DeepClean - Sloped Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 145mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 600                | 600                | 192                 | 58                  | DS6006SF     | 292                 | 88                  | DS6006HF     | 375                 | 113                 | DS6006DF     |                     |                     |              |
|                    | 700                | 241                 | 73                  | DS6007SF     | 365                 | 110                 | DS6007HF     | 468                 | 141                 | DS6007DF     | 647                 | 195                 | DS6007TF     |
|                    | 800                | 289                 | 87                  | DS6008SF     | 438                 | 132                 | DS6008HF     | 562                 | 170                 | DS6008DF     | 776                 | 234                 | DS6008TF     |
|                    | 900                | 337                 | 102                 | DS6009SF     | 511                 | 154                 | DS6009HF     | 655                 | 198                 | DS6009DF     | 905                 | 273                 | DS6009TF     |
|                    | 1000               | 385                 | 116                 | DS6010SF     | 584                 | 176                 | DS6010HF     | 749                 | 226                 | DS6010DF     |                     |                     |              |
|                    | 1100               | 433                 | 131                 | DS6011SF     | 657                 | 198                 | DS6011HF     | 843                 | 255                 | DS6011DF     | 1164                | 352                 | DS6011TF     |
|                    | 1200               | 481                 | 145                 | DS6012SF     | 730                 | 220                 | DS6012HF     | 936                 | 283                 | DS6012DF     | 1293                | 391                 | DS6012TF     |
|                    | 1300               | 530                 | 160                 | DS6013SF     | 803                 | 242                 | DS6013HF     | 1027                | 310                 | DS6013DF     | 1422                | 430                 | DS6013TF     |
|                    | 1400               | 578                 | 174                 | DS6014SF     | 876                 | 264                 | DS6014HF     | 1123                | 339                 | DS6014DF     | 1552                | 469                 | DS6014TF     |
|                    | 1500               | 626                 | 189                 | DS6015SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 674                 | 203                 | DS6016SF     | 1022                | 309                 | DS6016HF     | 1311                | 396                 | DS6016DF     | 1810                | 547                 | DS6016TF     |
|                    | 1800               | 771                 | 233                 | DS6018SF     | 1168                | 353                 | DS6018HF     | 1498                | 452                 | DS6018DF     | 2069                | 625                 | DS6018TF     |
|                    | 2000               | 867                 | 262                 | DS6020SF     | 1314                | 397                 | DS6020HF     | 1686                | 509                 | DS6020DF     | 2327                | 703                 | DS6020TF     |
|                    | 2200               | 963                 | 291                 | DS6022SF     |                     |                     |              | 1873                | 566                 | DS6022DF     | 2586                | 781                 | DS6022TF     |
|                    | 2400               | 1059                | 320                 | DS6024SF     |                     |                     |              | 2059                | 622                 | DS6024DF     |                     |                     |              |
|                    | 2600               | 1155                | 349                 | DS6026SF     |                     |                     |              | 2247                | 679                 | DS6026DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 700                | 600                | 248                 | 75                  | DS7006SF     | 372                 | 112                 | DS7006HF     | 480                 | 145                 | DS7006DF     |                     |                     |              |
|                    | 700                | 311                 | 94                  | DS7007SF     | 465                 | 141                 | DS7007HF     | 600                 | 181                 | DS7007DF     | 829                 | 251                 | DS7007TF     |
|                    | 800                | 372                 | 112                 | DS7008SF     | 558                 | 169                 | DS7008HF     | 719                 | 217                 | DS7008DF     | 995                 | 300                 | DS7008TF     |
|                    | 900                | 434                 | 131                 | DS7009SF     | 651                 | 197                 | DS7009HF     | 839                 | 253                 | DS7009DF     | 1161                | 350                 | DS7009TF     |
|                    | 1000               | 497                 | 150                 | DS7010SF     | 744                 | 225                 | DS7010HF     | 959                 | 290                 | DS7010DF     | 1326                | 400                 | DS7010TF     |
|                    | 1100               | 558                 | 169                 | DS7011SF     | 837                 | 253                 | DS7011HF     | 1079                | 326                 | DS7011DF     | 1493                | 451                 | DS7011TF     |
|                    | 1200               | 620                 | 187                 | DS7012SF     | 930                 | 281                 | DS7012HF     | 1199                | 362                 | DS7012DF     | 1658                | 501                 | DS7012TF     |
|                    | 1300               | 683                 | 206                 | DS7013SF     | 1024                | 309                 | DS7013HF     | 1319                | 398                 | DS7013DF     | 1824                | 551                 | DS7013TF     |
|                    | 1400               | 744                 | 225                 | DS7014SF     | 1116                | 337                 | DS7014HF     | 1438                | 434                 | DS7014DF     | 1990                | 601                 | DS7014TF     |
|                    | 1500               | 806                 | 244                 | DS7015SF     | 1210                | 365                 | DS7015HF     | 1558                | 471                 | DS7015DF     |                     |                     |              |
|                    | 1600               | 869                 | 262                 | DS7016SF     | 1302                | 393                 | DS7016HF     | 1679                | 507                 | DS7016DF     |                     |                     |              |
|                    | 1700               | 931                 | 281                 | DS7017SF     | 1396                | 421                 | DS7017HF     | 1799                | 543                 | DS7017DF     |                     |                     |              |
|                    | 1800               | 992                 | 300                 | DS7018SF     | 1488                | 449                 | DS7018HF     | 1918                | 579                 | DS7018DF     | 2653                | 1016                | DS7018TF     |
|                    | 2000               | 1117                | 337                 | DS7020SF     | 1674                | 506                 | DS7020HF     | 2158                | 652                 | DS7020DF     | 2984                | 1143                | DS7020TF     |
|                    | 2200               | 1241                | 375                 | DS7022SF     | 1860                | 562                 | DS7022HF     | 2398                | 724                 | DS7022DF     | 3316                | 1270                | DS7022TF     |
|                    | 2400               | 1364                | 412                 | DS7024SF     | 2046                | 618                 | DS7024HF     | 2637                | 796                 | DS7024DF     | 3648                | 1397                | DS7024TF     |
|                    | 2600               | 1489                | 450                 | DS7026SF     | 2232                | 674                 | DS7026HF     | 2877                | 869                 | DS7026DF     |                     |                     |              |

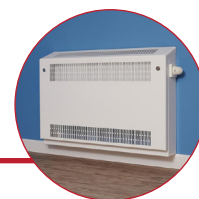
DeepClean - Sloped Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 145mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 800                | 500                | 223                 | 67                  | DS8005SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 298                 | 90                  | DS8006SF     | 448                 | 135                 | DS8006HF     | 577                 | 174                 | DS8006DF     |                     |                     |              |
|                    | 700                | 373                 | 113                 | DS8007SF     | 560                 | 169                 | DS8007HF     | 721                 | 218                 | DS8007DF     | 997                 | 301                 | DS8007TF     |
|                    | 800                | 448                 | 135                 | DS8008SF     | 671                 | 203                 | DS8008HF     | 864                 | 261                 | DS8008DF     | 1195                | 361                 | DS8008TF     |
|                    | 900                | 522                 | 158                 | DS8009SF     | 783                 | 237                 | DS8009HF     | 1008                | 305                 | DS8009DF     | 1395                | 421                 | DS8009TF     |
|                    | 1000               | 596                 | 180                 | DS8010SF     | 895                 | 270                 | DS8010HF     | 1153                | 348                 | DS8010DF     | 1594                | 481                 | DS8010TF     |
|                    | 1100               | 671                 | 203                 | DS8011SF     | 1007                | 304                 | DS8011HF     | 1297                | 392                 | DS8011DF     | 1793                | 542                 | DS8011TF     |
|                    | 1200               | 746                 | 225                 | DS8012SF     | 1119                | 338                 | DS8012HF     | 1441                | 435                 | DS8012DF     | 1993                | 602                 | DS8012TF     |
|                    | 1300               | 821                 | 248                 | DS8013SF     | 1231                | 372                 | DS8013HF     | 1585                | 479                 | DS8013DF     | 2192                | 662                 | DS8013TF     |
|                    | 1400               | 895                 | 270                 | DS8014SF     | 1342                | 405                 | DS8014HF     | 1729                | 522                 | DS8014DF     | 2391                | 722                 | DS8014TF     |
|                    | 1500               | 969                 | 293                 | DS8015SF     | 1454                | 439                 | DS8015HF     | 1873                | 566                 | DS8015DF     | 2591                | 782                 | DS8015TF     |
|                    | 1600               | 1044                | 315                 | DS8016SF     | 1566                | 473                 | DS8016HF     | 2018                | 609                 | DS8016DF     | 2790                | 843                 | DS8016TF     |
|                    | 1700               | 1119                | 338                 | DS8017SF     | 1679                | 507                 | DS8017HF     | 2162                | 653                 | DS8017DF     |                     |                     |              |
|                    | 1800               | 1193                | 360                 | DS8018SF     | 1790                | 541                 | DS8018HF     | 2305                | 696                 | DS8018DF     |                     |                     |              |
|                    | 2000               | 1342                | 405                 | DS8020SF     | 2014                | 608                 | DS8020HF     | 2593                | 783                 | DS8020DF     | 3587                | 1083                | DS8020TF     |
|                    | 2200               | 1492                | 450                 | DS8022SF     | 2237                | 676                 | DS8022HF     | 2882                | 870                 | DS8022DF     | 3985                | 1204                | DS8022TF     |
|                    | 2400               | 1641                | 496                 | DS8024SF     | 2461                | 743                 | DS8024HF     | 3170                | 957                 | DS8024DF     | 4384                | 1324                | DS8024TF     |
|                    | 2600               | 1790                | 541                 | DS8026SF     | 2685                | 811                 | DS8026HF     | 3459                | 1044                | DS8026DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 900                | 500                | 259                 | 78                  | DS9005SF     | 389                 | 117                 | DS9005HF     | 499                 | 151                 | DS9005DF     |                     |                     |              |
|                    | 600                | 345                 | 104                 | DS9006SF     | 519                 | 157                 | DS9006HF     | 666                 | 201                 | DS9006DF     | 920                 | 278                 | DS9006TF     |
|                    | 700                | 432                 | 130                 | DS9007SF     | 649                 | 196                 | DS9007HF     | 832                 | 251                 | DS9007DF     | 1150                | 347                 | DS9007TF     |
|                    | 800                | 518                 | 156                 | DS9008SF     | 778                 | 235                 | DS9008HF     | 998                 | 301                 | DS9008DF     | 1380                | 417                 | DS9008TF     |
|                    | 900                | 604                 | 183                 | DS9009SF     | 908                 | 274                 | DS9009HF     | 1164                | 352                 | DS9009DF     | 1610                | 486                 | DS9009TF     |
|                    | 1000               | 691                 | 209                 | DS9010SF     | 1038                | 313                 | DS9010HF     | 1331                | 402                 | DS9010DF     | 1840                | 556                 | DS9010TF     |
|                    | 1100               | 777                 | 235                 | DS9011SF     | 1167                | 352                 | DS9011HF     | 1497                | 452                 | DS9011DF     | 2070                | 625                 | DS9011TF     |
|                    | 1200               | 863                 | 261                 | DS9012SF     | 1297                | 392                 | DS9012HF     | 1663                | 502                 | DS9012DF     | 2300                | 695                 | DS9012TF     |
|                    | 1300               | 950                 | 287                 | DS9013SF     | 1427                | 431                 | DS9013HF     | 1830                | 553                 | DS9013DF     | 2529                | 764                 | DS9013TF     |
|                    | 1400               | 1036                | 313                 | DS9014SF     | 1556                | 470                 | DS9014HF     | 1996                | 603                 | DS9014DF     | 2760                | 833                 | DS9014TF     |
|                    | 1500               | 1122                | 339                 | DS9015SF     | 1686                | 509                 | DS9015HF     | 2163                | 653                 | DS9015DF     |                     |                     |              |
|                    | 1600               | 1209                | 365                 | DS9016SF     | 1816                | 548                 | DS9016HF     | 2329                | 703                 | DS9016DF     | 3220                | 972                 | DS9016TF     |
|                    | 1700               | 1295                | 391                 | DS9017SF     | 1946                | 588                 | DS9017HF     | 2496                | 754                 | DS9017DF     |                     |                     |              |
|                    | 1800               | 1381                | 417                 | DS9018SF     | 2075                | 627                 | DS9018HF     | 2661                | 804                 | DS9018DF     | 3679                | 1111                | DS9018TF     |
|                    | 2000               | 1554                | 469                 | DS9020SF     | 2334                | 705                 | DS9020HF     | 2994                | 904                 | DS9020DF     | 4139                | 1250                | DS9020TF     |
|                    | 2200               | 1727                | 521                 | DS9022SF     | 2593                | 783                 | DS9022HF     | 3327                | 1005                | DS9022DF     | 4600                | 1389                | DS9022TF     |
|                    | 2400               | 1899                | 574                 | DS9024SF     | 2852                | 861                 | DS9024HF     | 3660                | 1105                | DS9024DF     |                     |                     |              |
|                    | 2600               | 2072                | 626                 | DS9026SF     | 3112                | 940                 | DS9026HF     | 3993                | 1206                | DS9026DF     |                     |                     |              |

# DeepClean - Sloped Top - Standard Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22

TF/Type 33



Casing Depths

145mm

165mm

200mm

260mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1000               | 600                | 389                 | 117                 | DS1006SF     | 587                 | 177                 | DS1006HF     | 748                 | 226                 | DS1006DF     | 1032                | 312                 | DS1006TF     |
|                    | 700                | 487                 | 147                 | DS1007SF     | 733                 | 221                 | DS1007HF     | 935                 | 282                 | DS1007DF     | 1291                | 390                 | DS1007TF     |
|                    | 800                | 584                 | 176                 | DS1008SF     | 879                 | 266                 | DS1008HF     | 1121                | 339                 | DS1008DF     | 1548                | 467                 | DS1008TF     |
|                    | 900                | 681                 | 206                 | DS1009SF     | 1026                | 310                 | DS1009HF     | 1308                | 395                 | DS1009DF     | 1806                | 545                 | DS1009TF     |
|                    | 1000               | 778                 | 235                 | DS1010SF     | 1173                | 354                 | DS1010HF     | 1495                | 452                 | DS1010DF     | 2064                | 623                 | DS1010TF     |
|                    | 1100               | 876                 | 264                 | DS1011SF     | 1319                | 398                 | DS1011HF     | 1682                | 508                 | DS1011DF     | 2322                | 701                 | DS1011TF     |
|                    | 1200               | 973                 | 294                 | DS1012SF     | 1466                | 443                 | DS1012HF     | 1869                | 564                 | DS1012DF     | 2580                | 779                 | DS1012TF     |
|                    | 1300               | 1070                | 323                 | DS1013SF     | 1613                | 487                 | DS1013HF     | 2056                | 621                 | DS1013DF     | 2838                | 857                 | DS1013TF     |
|                    | 1400               | 1168                | 353                 | DS1014SF     | 1759                | 531                 | DS1014HF     | 2243                | 677                 | DS1014DF     | 3096                | 935                 | DS1014TF     |
|                    | 1500               | 1265                | 382                 | DS1015SF     | 1905                | 575                 | DS1015HF     | 2430                | 734                 | DS1015DF     |                     |                     |              |
|                    | 1600               | 1362                | 411                 | DS1016SF     | 2052                | 620                 | DS1016HF     | 2617                | 790                 | DS1016DF     | 3613                | 1091                | DS1016TF     |
|                    | 1700               | 1460                | 441                 | DS1017SF     |                     |                     |              | 2804                | 847                 | DS1017DF     |                     |                     |              |
|                    | 1800               | 1557                | 470                 | DS1018SF     | 2345                | 708                 | DS1018HF     | 2990                | 903                 | DS1018DF     | 4128                | 1247                | DS1018TF     |
|                    | 2000               | 1751                | 529                 | DS1020SF     | 2639                | 797                 | DS1020HF     | 3364                | 1016                | DS1020DF     |                     |                     |              |
|                    | 2200               | 1946                | 588                 | DS1022SF     |                     |                     |              | 3738                | 1129                | DS1022DF     |                     |                     |              |
|                    | 2400               | 2140                | 646                 | DS1024SF     |                     |                     |              | 4112                | 1242                | DS1024DF     |                     |                     |              |
|                    | 2600               | 2334                | 705                 | DS1026SF     |                     |                     |              | 4486                | 1355                | DS1026DF     |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1200               | 600                | 466                 | 141                 | DS1206SF     | 712                 | 215                 | DS1206HF     | 893                 | 270                 | DS1206DF     | 1227                | 371                 | DS1206TF     |
|                    | 700                | 584                 | 176                 | DS1207SF     | 890                 | 269                 | DS1207HF     | 1116                | 337                 | DS1207DF     | 1534                | 463                 | DS1207TF     |
|                    | 800                | 700                 | 212                 | DS1208SF     | 1067                | 322                 | DS1208HF     | 1339                | 404                 | DS1208DF     | 1841                | 556                 | DS1208TF     |
|                    | 900                | 817                 | 247                 | DS1209SF     | 1245                | 376                 | DS1209HF     | 1562                | 472                 | DS1209DF     | 2148                | 649                 | DS1209TF     |
|                    | 1000               | 934                 | 282                 | DS1210SF     | 1424                | 430                 | DS1210HF     | 1785                | 539                 | DS1210DF     | 2455                | 741                 | DS1210TF     |
|                    | 1100               | 1050                | 317                 | DS1211SF     |                     |                     |              | 2008                | 606                 | DS1211DF     | 2762                | 834                 | DS1211TF     |
|                    | 1200               | 1167                | 352                 | DS1212SF     |                     |                     |              | 2231                | 674                 | DS1212DF     | 3069                | 927                 | DS1212TF     |
|                    | 1300               | 1283                | 388                 | DS1213SF     |                     |                     |              | 2455                | 741                 | DS1213DF     |                     |                     |              |
|                    | 1400               | 1400                | 423                 | DS1214SF     |                     |                     |              | 2677                | 808                 | DS1214DF     |                     |                     |              |
|                    | 1500               |                     |                     |              |                     |                     |              | 2901                | 876                 | DS1215DF     |                     |                     |              |
|                    | 1600               | 1633                | 493                 | DS1216SF     |                     |                     |              | 3124                | 943                 | DS1216DF     |                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

\*Please note: the highlighted lines are on an 13-17 weeks lead time.\*



# Vertical LST Radiator

**For applications where space is at a premium, Contour's Vertical LST radiator is the ideal solution. Available with standard or anti-ligature grilles, the Vertical LSTs come with a streamlined, flat-panel outer casing and are suited to a range of different environments.**

A vertical LST radiator is designed to suit whatever space you have available and to maintain high standards for your heating solutions.

Areas such as bathrooms are often small, especially in residential care homes, where they are designed as en-suites. Here, narrow LST radiators are required. Additionally, in school halls and other spaces with narrow wall areas, a vertical LST radiator can be installed to give the space the best possible heating without dominating the walls. In these areas, it can be difficult to find the right amount of wall space to provide adequate heating. This is where vertical LST radiators can be a huge benefit.

Because wall space is limited, having a radiator that uses the height of the wall rather than the width means that less space is lost, leaving more room for additional appliances or safety features. Vertical LST radiators can be installed behind doors or be wall-mounted to leave as much floor space as possible.

In communal areas, such as in GP surgery waiting rooms, a vertical LST radiator can enhance the usability of the space by opening up more areas for furniture, such as seats, which may have otherwise been restricted.

Contour's Vertical LST comes with BioCote® anti-microbial protection to ensure safety standards for hygiene are met. The presence of this anti-microbial technology, offers a 99.5% reduction in bacteria levels in under 2 hours.



# Vertical LST Radiators

Summary:

Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- 5.5mm Punched grille
- Cut-outs programmed into manufacture

Emitter:

- Vertical steel radiators
- 6 Bar Max Operating Pressure
- EN442 Tested and Certified

Sizes

- Single Casing Lengths 400mm - 1100mm
- Single Casing Heights 1900mm - 2300mm
- Bespoke solutions available

Valve options available:

- Internal TRV kit 9210-13
- External TRV kit 9330-41
- Remote sensing TRV kit 7463-41
- Alternative valve patterns and sizes are available upon request

Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available Patented BioCote® anti-microbial agent as standard

Fixings:

- All fixings internal
- 6mm Allen key door as standard
- Other secure options available

## Technical Information & Specifications

Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding vertical radiator and the option of a 90degree Herz ½” valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables
- Base Plate to underside of cover on wall mounted version

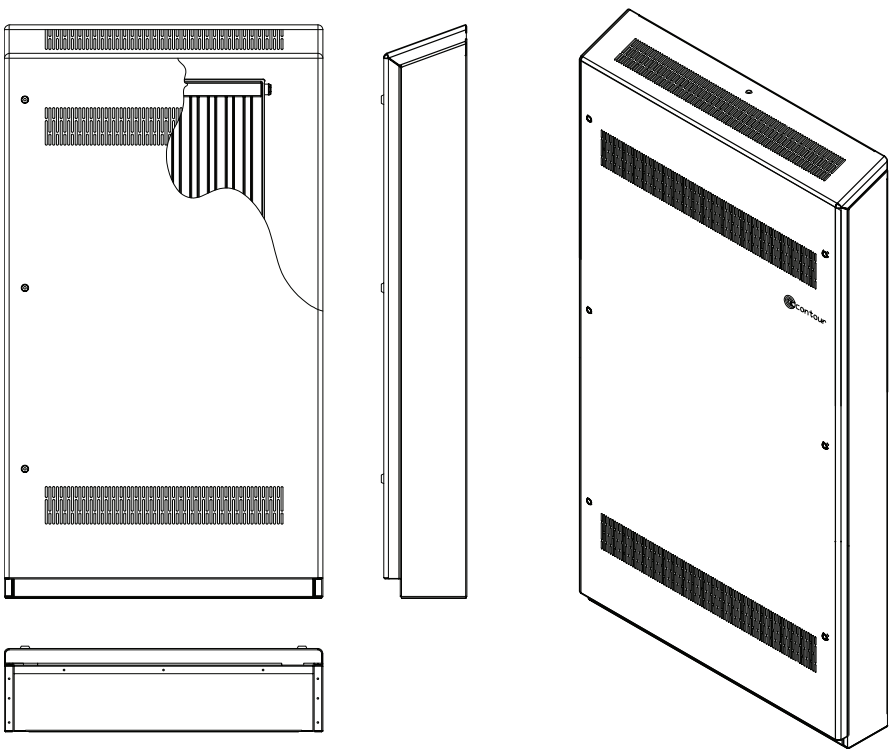
Heat outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To acheive Delta T60 increase T50 figure by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



| Casing Depth      |                     |
|-------------------|---------------------|
| Half Fin<br>165mm | Double Fin<br>195mm |



# DeepClean - Vertical - Sloped Top - Standard Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22



Casing Depths

150mm

165mm

200mm

| Casing Height (mm) | Casing Length (mm) | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code |
|--------------------|--------------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|
| 1900               | 400                | 266                           | 80                            | DVSF1904SF   | 603                           | 182                           | DVSF1904HF   |                               |                               |              |
|                    | 500                | 442                           | 134                           | DVSF1905SF   | 753                           | 227                           | DVSF1905HF   | 993                           | 300                           | DVSF1905DF   |
|                    | 600                | 548                           | 166                           | DVSF1906SF   | 968                           | 292                           | DVSF1906HF   | 1266                          | 382                           | DVSF1906DF   |
|                    | 700                | 657                           | 198                           | DVSF1907SF   | 1177                          | 356                           | DVSF1907HF   | 1538                          | 464                           | DVSF1907DF   |
|                    | 800                | 765                           | 231                           | DVSF1908SF   | 1383                          | 418                           | DVSF1908HF   | 1810                          | 547                           | DVSF1908DF   |
|                    | 900                | 872                           | 263                           | DVSF1909SF   | 1583                          | 478                           | DVSF1909HF   | 2112                          | 638                           | DVSF1909DF   |
|                    | 1100               | 1121                          | 339                           | DVSF1911F    | 2035                          | 615                           | DVSF1911HF   | 2715                          | 820                           | DVSF1911DF   |

| Casing Height (mm) | Casing Length (mm) | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code |
|--------------------|--------------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|
| 2100               | 400                | 300                           | 91                            | DVSF2104SF   | 677                           | 205                           | DVSF2104HF   |                               |                               |              |
|                    | 500                | 474                           | 143                           | DVSF2105SF   | 821                           | 248                           | DVSF2105HF   | 1039                          | 314                           | DVSF2105DF   |
|                    | 600                | 596                           | 180                           | DVSF2106SF   | 1056                          | 319                           | DVSF2106HF   | 1345                          | 406                           | DVSF2106DF   |
|                    | 700                | 717                           | 217                           | DVSF2107F    | 1286                          | 388                           | DVSF2107HF   | 1651                          | 499                           | DVSF2107DF   |
|                    | 800                | 839                           | 253                           | DVSF2108SF   | 1510                          | 456                           | DVSF2108HF   | 1955                          | 591                           | DVSF2108DF   |
|                    | 900                | 959                           | 290                           | DVSF2109SF   | 1728                          | 522                           | DVSF2109HF   | 2282                          | 689                           | DVSF2109DF   |
|                    | 1100               | 1234                          | 373                           | DVSF2111SF   | 2222                          | 671                           | DVSF2111HF   | 2933                          | 886                           | DVSF2111DF   |

| Casing Height (mm) | Casing Length (mm) | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code |
|--------------------|--------------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|
| 2300               | 400                | 333                           | 101                           | DVSF2304SF   | 753                           | 227                           | DVSF2304HF   |                               |                               |              |
|                    | 500                | 512                           | 155                           | DVSF2305SF   | 886                           | 268                           | DVSF2305HF   | 1121                          | 338                           | DVSF2305DF   |
|                    | 600                | 640                           | 193                           | DVSF2306SF   | 1142                          | 345                           | DVSF2306HF   | 1449                          | 438                           | DVSF2306DF   |
|                    | 700                | 769                           | 232                           | DVSF2307SF   | 1389                          | 420                           | DVSF2307HF   | 1779                          | 537                           | DVSF2307DF   |
|                    | 800                | 898                           | 271                           | DVSF2308SF   | 1631                          | 493                           | DVSF2308HF   | 2109                          | 637                           | DVSF2308DF   |
|                    | 900                | 1027                          | 310                           | DVSF2309SF   | 1868                          | 564                           | DVSF2309HF   | 2461                          | 743                           | DVSF2309DF   |
|                    | 1100               | 1321                          | 399                           | DVSF2311SF   | 2402                          | 725                           | DVSF2311HF   | 3163                          | 955                           | DVSF2311DF   |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

 \*Please note: the highlighted lines are on an 13-17 weeks lead time.\*

# DeepClean Extra Radiator

Central to Contour's product offer is a specialist range of heating solutions designed and engineered to minimise the risk of self-harm and for installation in secure environments, such as mental health facilities, prisons, SEN Schools, custody and remand units.

Removing potential tamper opportunities and ligature points in locations such as these, are key considerations.

Contour's anti-ligature radiators make use of a grille design incorporating 2mm holes at 4mm centres, punched directly into the radiator guard. This has been tested to IP3x standards (BS EN 60529) by a UKAS accredited laboratory, and is certified to protect against the ingress of objects greater than 2.5mm in diameter.

Anti-ligature TRV kits are also available to allow service users take control of their heating to increase comfort levels. The CNC aluminium shroud gives protection to the TRV whilst minimising the the risk of someone being able to tie something around it.





# DeepClean Extra Radiator

Whether it's the full drop down door or the IP3x grilles, the DeepClean Extra Radiator boasts numerous benefits to the user. Combined with its BioCote® anti-microbial technology and optional rotatory valve kits, these make for the perfect solution in hygiene control.

An array of security fastenings which include Pin Hex and key locks can be used to ensure fast and simple access for staff but prevent unwanted opening by service users

Radius edges and bullnose corners protect in the event of a slip or fall, and prevent an anti-ligature radiator being used to self-harm

1.5-2mm Zintec Steel construction ensures robust performance in the most demanding of environments

All wall and floor fixing points are located internally to protect against non-permitted access, removal or manipulation

Full frame design so cover can be sealed to the wall around the full perimeter  
Magnelis steel can be chosen for wet and humid environments such as ensuite bathrooms.

A tapered, precision engineered, thermostatic radiator valve shroud which reduces the opportunity for the TRV to be used as an anchor point

For wall mounted anti-ligature radiators, anti-ligature base plates can be securely fixed to the base of a unit



Patented easy to open front panel that can lie flat to floor when fully open. The design also facilitates complete removal of the door if required

## DeepClean Extra models

DeepClean Extra radiators and guards are available in three models:

**1.**  
Floor mounted / flat top

**2.**  
Floor mounted / sloping top

**3.**  
Wall mounted / sloping top

## DeepClean Extra colour options

DeepClean radiator guards are available in a wide range of colours, including:



1



2



3





# DeepClean Extra

## Floor Mounted - Flat Top

### Summary:

#### Manufacture:

- Full frame design
- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- IP3x rated 2mm dia holes @ 4mm centres in a triangular pitch formation punched grille
- Cut-outs programmed into manufacture

#### Emitter:

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar -(tested to 13 bar/188PSI)

#### Sizes:

- Single casing length 600mm to 2000mm
- Single casing height 600mm to 1200mm
- Lengths over 2000mm can be achieved but will be modular design so some assembly required on site
- Bespoke solutions available

#### Valve options available:

- Internal TRV kit 9210-13
- Remote sensing TRV kit 7463-41
- External Back To Wall Anti-Ligature TRV kit 93524-41
- Rotarad rotating valve kit:  
RR04 Single Fin / RR05 Half Fin / RR06 Double Fin (not suitable for Triple Fin radiators)
- Alternative valve patterns and sizes are available upon request

#### Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available
- Patented BioCote® anti-microbial agent as standard

#### Fixings:

- All fixings internal
- 8mm Pinhex Locks

### Technical Information & Specifications

#### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and the option of a 90degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- An optional Rotarad rotary valve is available (not suitable for Triple Fin radiators)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

#### Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables

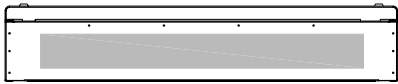
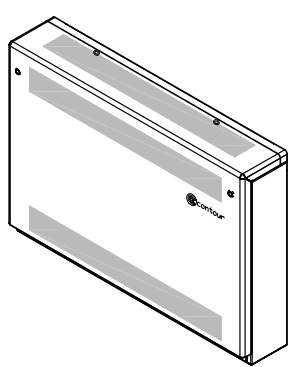
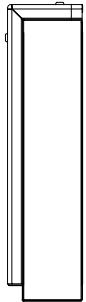
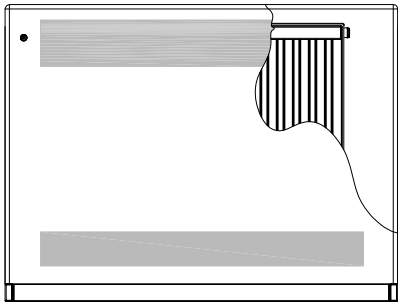
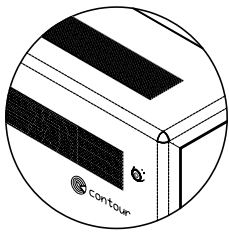
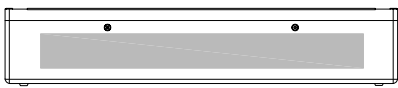
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%

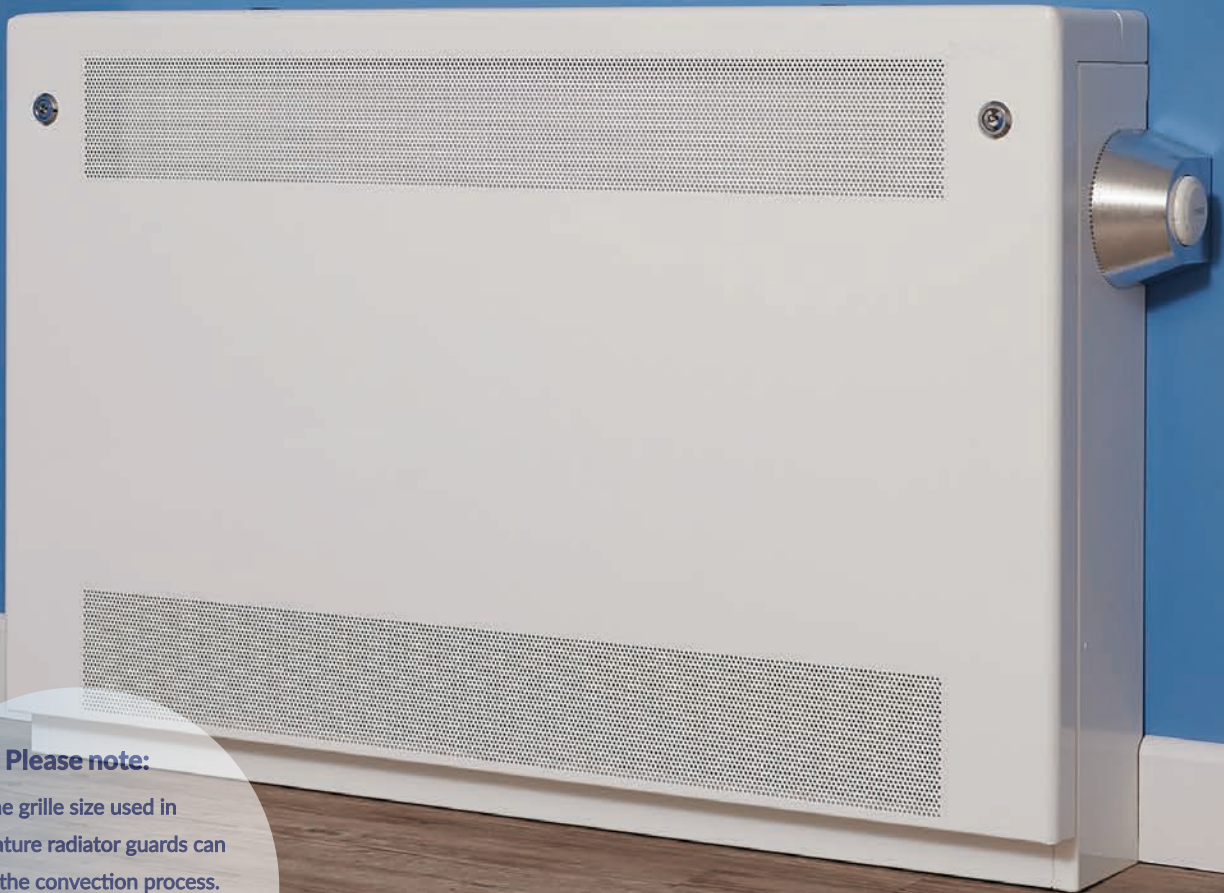
To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



#### Casing Depth

| Single Fin | Half Fin | Double Fin | Triple Fin |
|------------|----------|------------|------------|
| 150mm      | 165mm    | 200mm      | 260mm      |



#### Please note:

The grille size used in anti-ligature radiator guards can inhibit the convection process. Therefore Contour cannot guarantee that the casing will not exceed a surface temperature of 43°C.



DeepClean Extra - Flat Top - IP3X Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 150mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 550                | 600                | 173                 | 52                  | DEF5506SF    | 262                 | 79                  | DEF5506HF    | 337                 | 102                 | DEF5506DF    |                     |                     |              |
|                    | 700                | 217                 | 65                  | DEF5507SF    | 328                 | 99                  | DEF5507HF    | 421                 | 127                 | DEF5507DF    | 582                 | 176                 | DEF5507TF    |
|                    | 800                | 260                 | 79                  | DEF5508SF    | 394                 | 119                 | DEF5508HF    | 505                 | 152                 | DEF5508DF    | 698                 | 211                 | DEF5508TF    |
|                    | 900                | 303                 | 92                  | DEF5509SF    | 459                 | 139                 | DEF5509HF    | 589                 | 178                 | DEF5509DF    | 814                 | 246                 | DEF5509TF    |
|                    | 1000               | 346                 | 105                 | DEF5510SF    | 525                 | 158                 | DEF5510HF    | 674                 | 203                 | DEF5510DF    |                     |                     |              |
|                    | 1100               | 390                 | 118                 | DEF5511SF    | 590                 | 178                 | DEF5511HF    | 758                 | 229                 | DEF5511DF    | 1046                | 316                 | DEF5511TF    |
|                    | 1200               | 433                 | 131                 | DEF5512SF    | 656                 | 198                 | DEF5512HF    | 842                 | 254                 | DEF5512DF    | 1162                | 351                 | DEF5512TF    |
|                    | 1300               | 476                 | 144                 | DEF5513SF    | 722                 | 218                 | DEF5513HF    | 923                 | 279                 | DEF5513DF    | 1278                | 386                 | DEF5513TF    |
|                    | 1400               | 519                 | 157                 | DEF5514SF    | 787                 | 238                 | DEF5514HF    | 1010                | 305                 | DEF5514DF    | 1395                | 421                 | DEF5514TF    |
|                    | 1500               | 562                 | 170                 | DEF5515SF    |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 606                 | 183                 | DEF5516SF    | 918                 | 277                 | DEF5516HF    | 1178                | 356                 | DEF5516DF    | 1627                | 491                 | DEF5516TF    |
|                    | 1800               | 693                 | 209                 | DEF5518SF    | 1050                | 317                 | DEF5518HF    | 1346                | 407                 | DEF5518DF    | 1860                | 562                 | DEF5518TF    |
|                    | 2000               | 779                 | 235                 | DEF5520SF    | 1181                | 357                 | DEF5520HF    | 1515                | 458                 | DEF5520DF    | 2092                | 632                 | DEF5520TF    |
|                    | 2200               | 866                 | 261                 | DEF5522SF    |                     |                     |              | 1683                | 508                 | DEF5522DF    | 2325                | 702                 | DEF5522TF    |
|                    | 2400               | 952                 | 288                 | DEF5524SF    |                     |                     |              | 1851                | 559                 | DEF5524DF    |                     |                     |              |
|                    | 2600               | 1038                | 314                 | DEF5526SF    |                     |                     |              | 2020                | 610                 | DEF5526DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 650                | 600                | 223                 | 67                  | DEF6506SF    | 334                 | 101                 | DEF6506HF    | 431                 | 130                 | DEF6506DF    |                     |                     |              |
|                    | 700                | 279                 | 84                  | DEF6507SF    | 418                 | 126                 | DEF6507HF    | 539                 | 163                 | DEF6507DF    | 746                 | 225                 | DEF6507TF    |
|                    | 800                | 334                 | 101                 | DEF6508SF    | 502                 | 151                 | DEF6508HF    | 646                 | 195                 | DEF6508DF    | 894                 | 270                 | DEF6508TF    |
|                    | 900                | 390                 | 118                 | DEF6509SF    | 586                 | 177                 | DEF6509HF    | 754                 | 228                 | DEF6509DF    | 1043                | 315                 | DEF6509TF    |
|                    | 1000               | 446                 | 135                 | DEF6510SF    | 669                 | 202                 | DEF6510HF    | 862                 | 260                 | DEF6510DF    | 1192                | 360                 | DEF6510TF    |
|                    | 1100               | 502                 | 151                 | DEF6511SF    | 753                 | 227                 | DEF6511HF    | 970                 | 293                 | DEF6511DF    | 1342                | 405                 | DEF6511TF    |
|                    | 1200               | 558                 | 168                 | DEF6512SF    | 836                 | 252                 | DEF6512HF    | 1078                | 325                 | DEF6512DF    | 1490                | 450                 | DEF6512TF    |
|                    | 1300               | 614                 | 185                 | DEF6513SF    | 920                 | 278                 | DEF6513HF    | 1186                | 358                 | DEF6513DF    | 1639                | 495                 | DEF6513TF    |
|                    | 1400               | 669                 | 202                 | DEF6514SF    | 1003                | 303                 | DEF6514HF    | 1293                | 390                 | DEF6514DF    | 1789                | 540                 | DEF6514TF    |
|                    | 1500               | 725                 | 219                 | DEF6515SF    | 1087                | 328                 | DEF6515HF    | 1401                | 423                 | DEF6515DF    |                     |                     |              |
|                    | 1600               | 781                 | 236                 | DEF6516SF    | 1170                | 353                 | DEF6516HF    | 1509                | 456                 | DEF6516DF    |                     |                     |              |
|                    | 1700               | 837                 | 253                 | DEF6517SF    | 1254                | 379                 | DEF6517HF    | 1617                | 488                 | DEF6517DF    |                     |                     |              |
|                    | 1800               | 892                 | 269                 | DEF6518SF    | 1338                | 404                 | DEF6518HF    | 1724                | 521                 | DEF6518DF    | 2385                | 720                 | DEF6518TF    |
|                    | 2000               | 1004                | 303                 | DEF6520SF    | 1505                | 454                 | DEF6520HF    | 1940                | 586                 | DEF6520DF    | 2682                | 810                 | DEF6520TF    |
|                    | 2200               | 1115                | 337                 | DEF6522SF    | 1672                | 505                 | DEF6522HF    | 2155                | 651                 | DEF6522DF    | 2981                | 900                 | DEF6522TF    |
|                    | 2400               | 1226                | 370                 | DEF6524SF    | 1839                | 555                 | DEF6524HF    | 2370                | 716                 | DEF6524DF    | 3279                | 990                 | DEF6524TF    |
|                    | 2600               | 1338                | 404                 | DEF6526SF    | 2006                | 606                 | DEF6526HF    | 2586                | 781                 | DEF6526DF    |                     |                     |              |

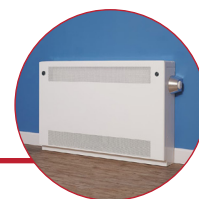
DeepClean Extra - Flat Top - IP3X Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 150mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 750                | 500                | 201                 | 61                  | DEF7505SF    |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 268                 | 81                  | DEF7506SF    | 402                 | 122                 | DEF7506HF    | 518                 | 157                 | DEF7506DF    |                     |                     |              |
|                    | 700                | 335                 | 101                 | DEF7507SF    | 503                 | 152                 | DEF7507HF    | 648                 | 196                 | DEF7507DF    | 896                 | 271                 | DEF7507TF    |
|                    | 800                | 402                 | 122                 | DEF7508SF    | 603                 | 182                 | DEF7508HF    | 777                 | 235                 | DEF7508DF    | 1074                | 324                 | DEF7508TF    |
|                    | 900                | 470                 | 142                 | DEF7509SF    | 704                 | 213                 | DEF7509HF    | 906                 | 274                 | DEF7509DF    | 1254                | 379                 | DEF7509TF    |
|                    | 1000               | 536                 | 162                 | DEF7510SF    | 805                 | 243                 | DEF7510HF    | 1036                | 313                 | DEF7510DF    | 1433                | 433                 | DEF7510TF    |
|                    | 1100               | 603                 | 182                 | DEF7511SF    | 905                 | 273                 | DEF7511HF    | 1166                | 352                 | DEF7511DF    | 1612                | 487                 | DEF7511TF    |
|                    | 1200               | 670                 | 202                 | DEF7512SF    | 1006                | 304                 | DEF7512HF    | 1295                | 391                 | DEF7512DF    | 1791                | 541                 | DEF7512TF    |
|                    | 1300               | 738                 | 223                 | DEF7513SF    | 1106                | 334                 | DEF7513HF    | 1425                | 430                 | DEF7513DF    | 1970                | 595                 | DEF7513TF    |
|                    | 1400               | 805                 | 243                 | DEF7514SF    | 1206                | 364                 | DEF7514HF    | 1554                | 469                 | DEF7514DF    | 2150                | 649                 | DEF7514TF    |
|                    | 1500               | 871                 | 263                 | DEF7515SF    | 1307                | 395                 | DEF7515HF    | 1684                | 509                 | DEF7515DF    | 2329                | 703                 | DEF7515TF    |
|                    | 1600               | 938                 | 283                 | DEF7516SF    | 1408                | 425                 | DEF7516HF    | 1814                | 548                 | DEF7516DF    | 2508                | 757                 | DEF7516TF    |
|                    | 1700               | 1006                | 304                 | DEF7517SF    | 1509                | 456                 | DEF7517HF    | 1943                | 587                 | DEF7517DF    |                     |                     |              |
|                    | 1800               | 1073                | 324                 | DEF7518SF    | 1609                | 486                 | DEF7518HF    | 2072                | 626                 | DEF7518DF    |                     |                     |              |
|                    | 2000               | 1206                | 364                 | DEF7520SF    | 1810                | 547                 | DEF7520HF    | 2331                | 704                 | DEF7520DF    | 3224                | 974                 | DEF7520TF    |
|                    | 2200               | 1341                | 405                 | DEF7522SF    | 2011                | 607                 | DEF7522HF    | 2590                | 782                 | DEF7522DF    | 3582                | 1082                | DEF7522TF    |
|                    | 2400               | 1475                | 446                 | DEF7524SF    | 2212                | 668                 | DEF7524HF    | 2850                | 861                 | DEF7524DF    | 3941                | 1190                | DEF7524TF    |
|                    | 2600               | 1609                | 486                 | DEF7526SF    | 2414                | 729                 | DEF7526HF    | 3109                | 939                 | DEF7526DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 850                | 500                | 233                 | 70                  | DEF8505SF    | 350                 | 106                 | DEF8505HF    | 449                 | 136                 | DEF8505DF    |                     |                     |              |
|                    | 600                | 310                 | 94                  | DEF8506SF    | 466                 | 141                 | DEF8506HF    | 598                 | 181                 | DEF8506DF    | 827                 | 250                 | DEF8506TF    |
|                    | 700                | 388                 | 117                 | DEF8507SF    | 583                 | 176                 | DEF8507HF    | 748                 | 226                 | DEF8507DF    | 1034                | 312                 | DEF8507TF    |
|                    | 800                | 466                 | 141                 | DEF8508SF    | 699                 | 211                 | DEF8508HF    | 897                 | 271                 | DEF8508DF    | 1240                | 374                 | DEF8508TF    |
|                    | 900                | 543                 | 164                 | DEF8509SF    | 816                 | 246                 | DEF8509HF    | 1046                | 316                 | DEF8509DF    | 1447                | 437                 | DEF8509TF    |
|                    | 1000               | 621                 | 187                 | DEF8510SF    | 933                 | 282                 | DEF8510HF    | 1196                | 361                 | DEF8510DF    | 1654                | 499                 | DEF8510TF    |
|                    | 1100               | 698                 | 211                 | DEF8511SF    | 1049                | 317                 | DEF8511HF    | 1346                | 406                 | DEF8511DF    | 1861                | 562                 | DEF8511TF    |
|                    | 1200               | 776                 | 234                 | DEF8512SF    | 1166                | 352                 | DEF8512HF    | 1495                | 452                 | DEF8512DF    | 2067                | 624                 | DEF8512TF    |
|                    | 1300               | 854                 | 258                 | DEF8513SF    | 1282                | 387                 | DEF8513HF    | 1645                | 497                 | DEF8513DF    | 2274                | 687                 | DEF8513TF    |
|                    | 1400               | 931                 | 281                 | DEF8514SF    | 1398                | 422                 | DEF8514HF    | 1794                | 542                 | DEF8514DF    | 2481                | 749                 | DEF8514TF    |
|                    | 1500               | 1009                | 305                 | DEF8515SF    | 1515                | 458                 | DEF8515HF    | 1944                | 587                 | DEF8515DF    |                     |                     |              |
|                    | 1600               | 1086                | 328                 | DEF8516SF    | 1632                | 493                 | DEF8516HF    | 2094                | 632                 | DEF8516DF    | 2894                | 874                 | DEF8516TF    |
|                    | 1700               | 1164                | 352                 | DEF8517SF    | 1749                | 528                 | DEF8517HF    | 2243                | 677                 | DEF8517DF    |                     |                     |              |
|                    | 1800               | 1242                | 375                 | DEF8518SF    | 1865                | 563                 | DEF8518HF    | 2392                | 722                 | DEF8518DF    | 3307                | 999                 | DEF8518TF    |
|                    | 2000               | 1397                | 422                 | DEF8520SF    | 2098                | 634                 | DEF8520HF    | 2691                | 813                 | DEF8520DF    | 3721                | 1124                | DEF8520TF    |
|                    | 2200               | 1552                | 469                 | DEF8522SF    | 2331                | 704                 | DEF8522HF    | 2990                | 903                 | DEF8522DF    | 4134                | 1249                | DEF8522TF    |
|                    | 2400               | 1707                | 516                 | DEF8524SF    | 2564                | 774                 | DEF8524HF    | 3290                | 993                 | DEF8524DF    |                     |                     |              |
|                    | 2600               | 1862                | 562                 | DEF8526SF    | 2798                | 845                 | DEF8526HF    | 3589                | 1084                | DEF8526DF    |                     |                     |              |

# DeepClean Extra - Flat Top - IP3X Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22

TF/Type 33



Casing Depths

150mm

165mm

200mm

260mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 950                | 600                | 350                 | 106                 | DEF9506SF    | 527                 | 159                 | DEF9506HF    | 672                 | 203                 | DEF9506DF    | 928                 | 280                 | DEF9506TF    |
|                    | 700                | 438                 | 132                 | DEF9507SF    | 659                 | 199                 | DEF9507HF    | 840                 | 254                 | DEF9507DF    | 1160                | 350                 | DEF9507TF    |
|                    | 800                | 525                 | 158                 | DEF9508SF    | 790                 | 239                 | DEF9508HF    | 1008                | 304                 | DEF9508DF    | 1391                | 420                 | DEF9508TF    |
|                    | 900                | 612                 | 185                 | DEF9509SF    | 922                 | 279                 | DEF9509HF    | 1176                | 355                 | DEF9509DF    | 1623                | 490                 | DEF9509TF    |
|                    | 1000               | 699                 | 211                 | DEF9510SF    | 1054                | 318                 | DEF9510HF    | 1344                | 406                 | DEF9510DF    | 1855                | 560                 | DEF9510TF    |
|                    | 1100               | 787                 | 238                 | DEF9511SF    | 1186                | 358                 | DEF9511HF    | 1512                | 457                 | DEF9511DF    | 2087                | 630                 | DEF9511TF    |
|                    | 1200               | 874                 | 264                 | DEF9512SF    | 1318                | 398                 | DEF9512HF    | 1680                | 507                 | DEF9512DF    | 2319                | 700                 | DEF9512TF    |
|                    | 1300               | 962                 | 290                 | DEF9513SF    | 1450                | 438                 | DEF9513HF    | 1848                | 558                 | DEF9513DF    | 2551                | 770                 | DEF9513TF    |
|                    | 1400               | 1050                | 317                 | DEF9514SF    | 1581                | 477                 | DEF9514HF    | 2016                | 609                 | DEF9514DF    | 2783                | 841                 | DEF9514TF    |
|                    | 1500               | 1137                | 343                 | DEF9515SF    | 1713                | 517                 | DEF9515HF    | 2184                | 660                 | DEF9515DF    |                     |                     |              |
|                    | 1600               | 1224                | 370                 | DEF9516SF    | 1845                | 557                 | DEF9516HF    | 2352                | 710                 | DEF9516DF    | 3247                | 981                 | DEF9516TF    |
|                    | 1700               | 1312                | 396                 | DEF9517SF    |                     |                     |              | 2520                | 761                 | DEF9517DF    |                     |                     |              |
|                    | 1800               | 1399                | 423                 | DEF9518SF    | 2108                | 637                 | DEF9518HF    | 2688                | 812                 | DEF9518DF    | 3710                | 1121                | DEF9518TF    |
|                    | 2000               | 1574                | 475                 | DEF9520SF    | 2372                | 716                 | DEF9520HF    | 3024                | 913                 | DEF9520DF    |                     |                     |              |
|                    | 2200               | 1749                | 528                 | DEF9522SF    |                     |                     |              | 3360                | 1015                | DEF9522DF    |                     |                     |              |
|                    | 2400               | 1924                | 581                 | DEF9524SF    |                     |                     |              | 3696                | 1116                | DEF9524DF    |                     |                     |              |
|                    | 2600               | 2098                | 634                 | DEF9526SF    |                     |                     |              | 4032                | 1218                | DEF9526DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1150               | 600                | 419                 | 127                 | DEF1106SF    | 640                 | 193                 | DEF1106HF    | 802                 | 242                 | DEF1106DF    | 1103                | 333                 | DEF1106TF    |
|                    | 700                | 525                 | 158                 | DEF1107SF    | 800                 | 242                 | DEF1107HF    | 1003                | 303                 | DEF1107DF    | 1379                | 417                 | DEF1107TF    |
|                    | 800                | 630                 | 190                 | DEF1108SF    | 959                 | 290                 | DEF1108HF    | 1203                | 363                 | DEF1108DF    | 1655                | 500                 | DEF1108TF    |
|                    | 900                | 734                 | 222                 | DEF1109SF    | 1119                | 338                 | DEF1109HF    | 1404                | 424                 | DEF1109DF    | 1931                | 583                 | DEF1109TF    |
|                    | 1000               | 839                 | 253                 | DEF1110SF    | 1280                | 387                 | DEF1110HF    | 1605                | 485                 | DEF1110DF    | 2206                | 666                 | DEF1110TF    |
|                    | 1100               | 944                 | 285                 | DEF1111SF    |                     |                     |              | 1805                | 545                 | DEF1111DF    | 2482                | 750                 | DEF1111TF    |
|                    | 1200               | 1049                | 317                 | DEF1112SF    |                     |                     |              | 2006                | 606                 | DEF1112DF    | 2758                | 833                 | DEF1112TF    |
|                    | 1300               | 1154                | 348                 | DEF1113SF    |                     |                     |              | 2206                | 666                 | DEF1113DF    |                     |                     |              |
|                    | 1400               | 1258                | 380                 | DEF1114SF    |                     |                     |              | 2406                | 727                 | DEF1114DF    |                     |                     |              |
|                    | 1500               |                     |                     |              |                     |                     |              | 2607                | 787                 | DEF1115DF    |                     |                     |              |
|                    | 1600               | 1468                | 443                 | DEF1116SF    |                     |                     |              | 2808                | 848                 | DEF1116DF    |                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

■ \*Please note: the highlighted lines are on an 13-17 weeks lead time.\*



# DeepClean Extra

## Floor Mounted - Sloping Top

### Summary:

#### Manufacture:

- Full frame construction
- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- IP3x test (to BS EN 60529) compliant guard grille available - designed to stop objects >2.5mm diameter being inserted
- Cut-outs programmed into manufacture

#### Emitter:

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar -(tested to 13 bar/188PSI)

#### Sizes:

- Single casing length 600mm to 2000mm
- Single casing height 600mm to 1200mm
- Lengths over 2000mm can be achieved but will be modular design so some assembly required on site
- Bespoke solutions available

#### Valve options available:

- Internal TRV kit 9210-13
- Remote sensing TRV kit 7463-41
- External Back To Wall Anti-Ligature TRV kit 93524-41
- Rotarad rotating valve kit:  
RR04 Single Fin / RR05 Half Fin / RR06 Double Fin (not suitable for Triple Fin radiators)
- Alternative valve patterns and sizes are available upon request

#### Finish:

- Polyester powder coated RAL 9003 asstandard. Other colour finishes available
- Patented BioCote® anti-microbial agent as standard

#### Fixings:

- All fixings internal
- 8mm Pinhex Locks

### Technical Information & Specifications

#### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and the option of a 90degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- An optional Rotarad rotary valve is available (not suitable for Triple Fin radiators)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

#### Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables

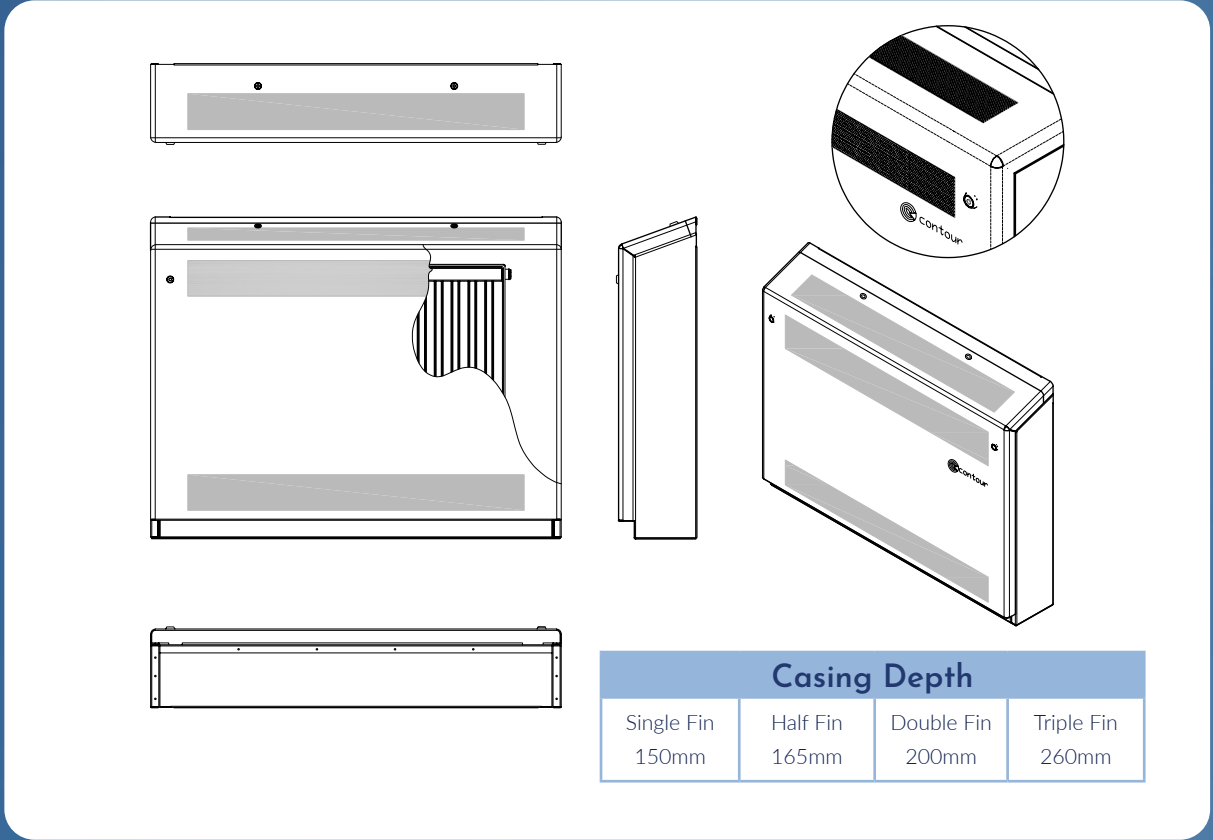
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



#### Please note:

The grille size used in anti-ligature radiator guards can inhibit the convection process. Therefore Contour cannot guarantee that the casing will not exceed a surface temperature of 43°C.

DeepClean Extra - Sloped Top - IP3X Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 150mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 600                | 600                | 173                 | 52                  | DES6006SF    | 262                 | 79                  | DES6006HF    | 337                 | 102                 | DES6006DF    |                     |                     |              |
|                    | 700                | 217                 | 65                  | DES6007SF    | 328                 | 99                  | DES6007HF    | 421                 | 127                 | DES6007DF    | 582                 | 176                 | DES6007TF    |
|                    | 800                | 260                 | 79                  | DES6008SF    | 394                 | 119                 | DES6008HF    | 505                 | 152                 | DES6008DF    | 698                 | 211                 | DES6008TF    |
|                    | 900                | 303                 | 92                  | DES6009SF    | 459                 | 139                 | DES6009HF    | 589                 | 178                 | DES6009DF    | 814                 | 246                 | DES6009TF    |
|                    | 1000               | 346                 | 105                 | DES6010SF    | 525                 | 158                 | DES6010HF    | 674                 | 203                 | DES6010DF    |                     |                     |              |
|                    | 1100               | 390                 | 118                 | DES6011SF    | 590                 | 178                 | DES6011HF    | 758                 | 229                 | DES6011DF    | 1046                | 316                 | DES6011TF    |
|                    | 1200               | 433                 | 131                 | DES6012SF    | 656                 | 198                 | DES6012HF    | 842                 | 254                 | DES6012DF    | 1162                | 351                 | DES6012TF    |
|                    | 1300               | 476                 | 144                 | DES6013SF    | 722                 | 218                 | DES6013HF    | 923                 | 279                 | DES6013DF    | 1278                | 386                 | DES6013TF    |
|                    | 1400               | 519                 | 157                 | DES6014SF    | 787                 | 238                 | DES6014HF    | 1010                | 305                 | DES6014DF    | 1395                | 421                 | DES6014TF    |
|                    | 1500               | 562                 | 170                 | DES6015SF    |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 606                 | 183                 | DES6016SF    | 918                 | 277                 | DES6016HF    | 1178                | 356                 | DES6016DF    | 1627                | 491                 | DES6016TF    |
|                    | 1800               | 693                 | 209                 | DES6018SF    | 1050                | 317                 | DES6018HF    | 1346                | 407                 | DES6018DF    | 1860                | 562                 | DES6018TF    |
|                    | 2000               | 779                 | 235                 | DES6020SF    | 1181                | 357                 | DES6020HF    | 1515                | 458                 | DES6020DF    | 2092                | 632                 | DES6020TF    |
|                    | 2200               | 866                 | 261                 | DES6022SF    |                     |                     |              | 1683                | 508                 | DES6022DF    | 2325                | 702                 | DES6022TF    |
|                    | 2400               | 952                 | 288                 | DES6024SF    |                     |                     |              | 1851                | 559                 | DES6024DF    |                     |                     |              |
|                    | 2600               | 1038                | 314                 | DES6026SF    |                     |                     |              | 2020                | 610                 | DES6026DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 700                | 600                | 223                 | 67                  | DES7006SF    | 334                 | 101                 | DES7006HF    | 431                 | 130                 | DES7006DF    |                     |                     |              |
|                    | 700                | 279                 | 84                  | DES7007SF    | 418                 | 126                 | DES7007HF    | 539                 | 163                 | DES7007DF    | 746                 | 225                 | DES7007TF    |
|                    | 800                | 334                 | 101                 | DES7008SF    | 502                 | 151                 | DES7008HF    | 646                 | 195                 | DES7008DF    | 894                 | 270                 | DES7008TF    |
|                    | 900                | 390                 | 118                 | DES7009SF    | 586                 | 177                 | DES7009HF    | 754                 | 228                 | DES7009DF    | 1043                | 315                 | DES7009TF    |
|                    | 1000               | 446                 | 135                 | DES7010SF    | 669                 | 202                 | DES7010HF    | 862                 | 260                 | DES7010DF    | 1192                | 360                 | DES7010TF    |
|                    | 1100               | 502                 | 151                 | DES7011SF    | 753                 | 227                 | DES7011HF    | 970                 | 293                 | DES7011DF    | 1342                | 405                 | DES7011TF    |
|                    | 1200               | 558                 | 168                 | DES7012SF    | 836                 | 252                 | DES7012HF    | 1078                | 325                 | DES7012DF    | 1490                | 450                 | DES7012TF    |
|                    | 1300               | 614                 | 185                 | DES7013SF    | 920                 | 278                 | DES7013HF    | 1186                | 358                 | DES7013DF    | 1639                | 495                 | DES7013TF    |
|                    | 1400               | 669                 | 202                 | DES7014SF    | 1003                | 303                 | DES7014HF    | 1293                | 390                 | DES7014DF    | 1789                | 540                 | DES7014TF    |
|                    | 1500               | 725                 | 219                 | DES7015SF    | 1087                | 328                 | DES7015HF    | 1401                | 423                 | DES7015DF    |                     |                     |              |
|                    | 1600               | 781                 | 236                 | DES7016SF    | 1170                | 353                 | DES7016HF    | 1509                | 456                 | DES7016DF    |                     |                     |              |
|                    | 1700               | 837                 | 253                 | DES7017SF    | 1254                | 379                 | DES7017HF    | 1617                | 488                 | DES7017DF    |                     |                     |              |
|                    | 1800               | 892                 | 269                 | DES7018SF    | 1338                | 404                 | DES7018HF    | 1724                | 521                 | DES7018DF    | 2385                | 720                 | DES7018TF    |
|                    | 2000               | 1004                | 303                 | DES7020SF    | 1505                | 454                 | DES7020HF    | 1940                | 586                 | DES7020DF    | 2682                | 810                 | DES7020TF    |
|                    | 2200               | 1115                | 337                 | DES7022SF    | 1672                | 505                 | DES7022HF    | 2155                | 651                 | DES7022DF    | 2981                | 900                 | DES7022TF    |
|                    | 2400               | 1226                | 370                 | DES7024SF    | 1839                | 555                 | DES7024HF    | 2370                | 716                 | DES7024DF    | 3279                | 990                 | DES7024TF    |
|                    | 2600               | 1338                | 404                 | DES7026SF    | 2006                | 606                 | DES7026HF    | 2586                | 781                 | DES7026DF    |                     |                     |              |

DeepClean Extra - Sloped Top - IP3X Grilles

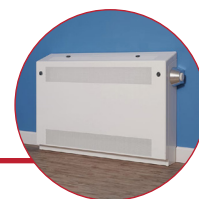


| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 150mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 800                | 500                | 201                 | 61                  | DES8005SF    |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 268                 | 81                  | DES8006SF    | 402                 | 122                 | DES8006HF    | 518                 | 157                 | DES8006DF    |                     |                     |              |
|                    | 700                | 335                 | 101                 | DES8007SF    | 503                 | 152                 | DES8007HF    | 648                 | 196                 | DES8007DF    | 896                 | 271                 | DES8007TF    |
|                    | 800                | 402                 | 122                 | DES8008SF    | 603                 | 182                 | DES8008HF    | 777                 | 235                 | DES8008DF    | 1074                | 324                 | DES8008TF    |
|                    | 900                | 470                 | 142                 | DES8009SF    | 704                 | 213                 | DES8009HF    | 906                 | 274                 | DES8009DF    | 1254                | 379                 | DES8009TF    |
|                    | 1000               | 536                 | 162                 | DES8010SF    | 805                 | 243                 | DES8010HF    | 1036                | 313                 | DES8010DF    | 1433                | 433                 | DES8010TF    |
|                    | 1100               | 603                 | 182                 | DES8011SF    | 905                 | 273                 | DES8011HF    | 1166                | 352                 | DES8011DF    | 1612                | 487                 | DES8011TF    |
|                    | 1200               | 670                 | 202                 | DES8012SF    | 1006                | 304                 | DES8012HF    | 1295                | 391                 | DES8012DF    | 1791                | 541                 | DES8012TF    |
|                    | 1300               | 738                 | 223                 | DES8013SF    | 1106                | 334                 | DES8013HF    | 1425                | 430                 | DES8013DF    | 1970                | 595                 | DES8013TF    |
|                    | 1400               | 805                 | 243                 | DES8014SF    | 1206                | 364                 | DES8014HF    | 1554                | 469                 | DES8014DF    | 2150                | 649                 | DES8014TF    |
|                    | 1500               | 871                 | 263                 | DES8015SF    | 1307                | 395                 | DES8015HF    | 1684                | 509                 | DES8015DF    | 2329                | 703                 | DES8015TF    |
|                    | 1600               | 938                 | 283                 | DES8016SF    | 1408                | 425                 | DES8016HF    | 1814                | 548                 | DES8016DF    | 2508                | 757                 | DES8016TF    |
|                    | 1700               | 1006                | 304                 | DES8017SF    | 1509                | 456                 | DES8017HF    | 1943                | 587                 | DES8017DF    |                     |                     |              |
|                    | 1800               | 1073                | 324                 | DES8018SF    | 1609                | 486                 | DES8018HF    | 2072                | 626                 | DES8018DF    |                     |                     |              |
|                    | 2000               | 1206                | 364                 | DES8020SF    | 1810                | 547                 | DES8020HF    | 2331                | 704                 | DES8020DF    | 3224                | 974                 | DES8020TF    |
|                    | 2200               | 1341                | 405                 | DES8022SF    | 2011                | 607                 | DES8022HF    | 2590                | 782                 | DES8022DF    | 3582                | 1082                | DES8022TF    |
|                    | 2400               | 1475                | 446                 | DES8024SF    | 2212                | 668                 | DES8024HF    | 2850                | 861                 | DES8024DF    | 3941                | 1190                | DES8024TF    |
|                    | 2600               | 1609                | 486                 | DES8026SF    | 2414                | 729                 | DES8026HF    | 3109                | 939                 | DES8026DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 900                | 500                | 233                 | 70                  | DES9005SF    | 350                 | 106                 | DES9005HF    | 449                 | 136                 | DES9005DF    |                     |                     |              |
|                    | 600                | 310                 | 94                  | DES9006SF    | 466                 | 141                 | DES9006HF    | 598                 | 181                 | DES9006DF    | 827                 | 250                 | DES9006TF    |
|                    | 700                | 388                 | 117                 | DES9007SF    | 583                 | 176                 | DES9007HF    | 748                 | 226                 | DES9007DF    | 1034                | 312                 | DES9007TF    |
|                    | 800                | 466                 | 141                 | DES9008SF    | 699                 | 211                 | DES9008HF    | 897                 | 271                 | DES9008DF    | 1240                | 374                 | DES9008TF    |
|                    | 900                | 543                 | 164                 | DES9009SF    | 816                 | 246                 | DES9009HF    | 1046                | 316                 | DES9009DF    | 1447                | 437                 | DES9009TF    |
|                    | 1000               | 621                 | 187                 | DES9010SF    | 933                 | 282                 | DES9010HF    | 1196                | 361                 | DES9010DF    | 1654                | 499                 | DES9010TF    |
|                    | 1100               | 698                 | 211                 | DES9011SF    | 1049                | 317                 | DES9011HF    | 1346                | 406                 | DES9011DF    | 1861                | 562                 | DES9011TF    |
|                    | 1200               | 776                 | 234                 | DES9012SF    | 1166                | 352                 | DES9012HF    | 1495                | 452                 | DES9012DF    | 2067                | 624                 | DES9012TF    |
|                    | 1300               | 854                 | 258                 | DES9013SF    | 1282                | 387                 | DES9013HF    | 1645                | 497                 | DES9013DF    | 2274                | 687                 | DES9013TF    |
|                    | 1400               | 931                 | 281                 | DES9014SF    | 1398                | 422                 | DES9014HF    | 1794                | 542                 | DES9014DF    | 2481                | 749                 | DES9014TF    |
|                    | 1500               | 1009                | 305                 | DES9015SF    | 1515                | 458                 | DES9015HF    | 1944                | 587                 | DES9015DF    |                     |                     |              |
|                    | 1600               | 1086                | 328                 | DES9016SF    | 1632                | 493                 | DES9016HF    | 2094                | 632                 | DES9016DF    | 2894                | 874                 | DES9016TF    |
|                    | 1700               | 1164                | 352                 | DES9017SF    | 1749                | 528                 | DES9017HF    | 2243                | 677                 | DES9017DF    |                     |                     |              |
|                    | 1800               | 1242                | 375                 | DES9018SF    | 1865                | 563                 | DES9018HF    | 2392                | 722                 | DES9018DF    | 3307                | 999                 | DES9018TF    |
|                    | 2000               | 1397                | 422                 | DES9020SF    | 2098                | 634                 | DES9020HF    | 2691                | 813                 | DES9020DF    | 3721                | 1124                | DES9020TF    |
|                    | 2200               | 1552                | 469                 | DES9022SF    | 2331                | 704                 | DES9022HF    | 2990                | 903                 | DES9022DF    | 4134                | 1249                | DES9022TF    |
|                    | 2400               | 1707                | 516                 | DES9024SF    | 2564                | 774                 | DES9024HF    | 3290                | 993                 | DES9024DF    |                     |                     |              |
|                    | 2600               | 1862                | 562                 | DES9026SF    | 2798                | 845                 | DES9026HF    | 3589                | 1084                | DES9026DF    |                     |                     |              |



# DeepClean Extra - Sloped Top - IP3X Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22

TF/Type 33



Casing Depths

150mm

165mm

200mm

260mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1000               | 600                | 350                 | 106                 | DES1006SF    | 527                 | 159                 | DES1006HF    | 672                 | 203                 | DES1006DF    | 928                 | 280                 | DES1006TF    |
|                    | 700                | 438                 | 132                 | DES1007SF    | 659                 | 199                 | DES1007HF    | 840                 | 254                 | DES1007DF    | 1160                | 350                 | DES1007TF    |
|                    | 800                | 525                 | 158                 | DES1008SF    | 790                 | 239                 | DES1008HF    | 1008                | 304                 | DES1008DF    | 1391                | 420                 | DES1008TF    |
|                    | 900                | 612                 | 185                 | DES1009SF    | 922                 | 279                 | DES1009HF    | 1176                | 355                 | DES1009DF    | 1623                | 490                 | DES1009TF    |
|                    | 1000               | 699                 | 211                 | DES1010SF    | 1054                | 318                 | DES1010HF    | 1344                | 406                 | DES1010DF    | 1855                | 560                 | DES1010TF    |
|                    | 1100               | 787                 | 238                 | DES1011SF    | 1186                | 358                 | DES1011HF    | 1512                | 457                 | DES1011DF    | 2087                | 630                 | DES1011TF    |
|                    | 1200               | 874                 | 264                 | DES1012SF    | 1318                | 398                 | DES1012HF    | 1680                | 507                 | DES1012DF    | 2319                | 700                 | DES1012TF    |
|                    | 1300               | 962                 | 290                 | DES1013SF    | 1450                | 438                 | DES1013HF    | 1848                | 558                 | DES1013DF    | 2551                | 770                 | DES1013TF    |
|                    | 1400               | 1050                | 317                 | DES1014SF    | 1581                | 477                 | DES1014HF    | 2016                | 609                 | DES1014DF    | 2783                | 841                 | DES1014TF    |
|                    | 1500               | 1137                | 343                 | DES1015SF    | 1713                | 517                 | DES1015HF    | 2184                | 660                 | DES1015DF    |                     |                     |              |
|                    | 1600               | 1224                | 370                 | DES1016SF    | 1845                | 557                 | DES1016HF    | 2352                | 710                 | DES1016DF    | 3247                | 981                 | DES1016TF    |
|                    | 1700               | 1312                | 396                 | DES1017SF    |                     |                     |              | 2520                | 761                 | DES1017DF    |                     |                     |              |
|                    | 1800               | 1399                | 423                 | DES1018SF    | 2108                | 637                 | DES1018HF    | 2688                | 812                 | DES1018DF    | 3710                | 1121                | DES1018TF    |
|                    | 2000               | 1574                | 475                 | DES1020SF    | 2372                | 716                 | DES1020HF    | 3024                | 913                 | DES1020DF    |                     |                     |              |
|                    | 2200               | 1749                | 528                 | DES1022SF    |                     |                     |              | 3360                | 1015                | DES1022DF    |                     |                     |              |
|                    | 2400               | 1924                | 581                 | DES1024SF    |                     |                     |              | 3696                | 1116                | DES1024DF    |                     |                     |              |
|                    | 2600               | 2098                | 634                 | DES1026SF    |                     |                     |              | 4032                | 1218                | DES1026DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1200               | 600                | 419                 | 127                 | DES1206SF    | 640                 | 193                 | DES1206HF    | 802                 | 242                 | DES1206DF    | 1103                | 333                 | DES1206TF    |
|                    | 700                | 525                 | 158                 | DES1207SF    | 800                 | 242                 | DES1207HF    | 1003                | 303                 | DES1207DF    | 1379                | 417                 | DES1207TF    |
|                    | 800                | 630                 | 190                 | DES1208SF    | 959                 | 290                 | DES1208HF    | 1203                | 363                 | DES1208DF    | 1655                | 500                 | DES1208TF    |
|                    | 900                | 734                 | 222                 | DES1209SF    | 1119                | 338                 | DES1209HF    | 1404                | 424                 | DES1209DF    | 1931                | 583                 | DES1209TF    |
|                    | 1000               | 839                 | 253                 | DES1210SF    | 1280                | 387                 | DES1210HF    | 1605                | 485                 | DES1210DF    | 2206                | 666                 | DES1210TF    |
|                    | 1100               | 944                 | 285                 | DES1211SF    |                     |                     |              | 1805                | 545                 | DES1211DF    | 2482                | 750                 | DES1211TF    |
|                    | 1200               | 1049                | 317                 | DES1212SF    |                     |                     |              | 2006                | 606                 | DES1212DF    | 2758                | 833                 | DES1212TF    |
|                    | 1300               | 1154                | 348                 | DES1213SF    |                     |                     |              | 2206                | 666                 | DES1213DF    |                     |                     |              |
|                    | 1400               | 1258                | 380                 | DES1214SF    |                     |                     |              | 2406                | 727                 | DES1214DF    |                     |                     |              |
|                    | 1500               |                     |                     |              |                     |                     |              | 2607                | 787                 | DES1215DF    |                     |                     |              |
|                    | 1600               | 1468                | 443                 | DES1216SF    |                     |                     |              | 2808                | 848                 | DES1216DF    |                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

\*Please note: the highlighted lines are on an 13-17 weeks lead time.\*

# DeepClean Extra

## Wall Mounted - Sloping Top

### Summary:

#### Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- IP3x rated 2mm dia holes @ 4mm Centres in a triangular Pitch Formation Punched Grille
- Cut-outs programmed into Manufacture
- Anti-Ligature Base Plate to underside of cover

#### Emitter:

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar - (tested to 13 bar/188PSI)

#### Sizes:

- Single casing length 600mm to 2000mm
- Single casing height 600mm to 1200mm
- Lengths over 2000mm can be achieved but will be modular design so some assembly required on site
- Bespoke solutions available

#### Valve options available:

- Internal TRV kit 9210-13
- Remote sensing TRV kit 7463-41
- External Back To Wall Anti-Ligature TRV kit 93524-41
- Rotarad rotating valve kit:  
RR04 Single Fin / RR05 Half Fin / RR06 Double Fin (not suitable for Triple Fin radiators)
- Alternative valve patterns and sizes are available upon request

#### Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available
- Patented BioCote® anti-microbial agent as standard

#### Fixings:

- All fixings internal
- 8mm Pinhex Locks

### Technical Information & Specifications

#### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and the option of a 90degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- An optional Rotarad rotary valve is available (not suitable for Triple Fin radiators)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

#### Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables

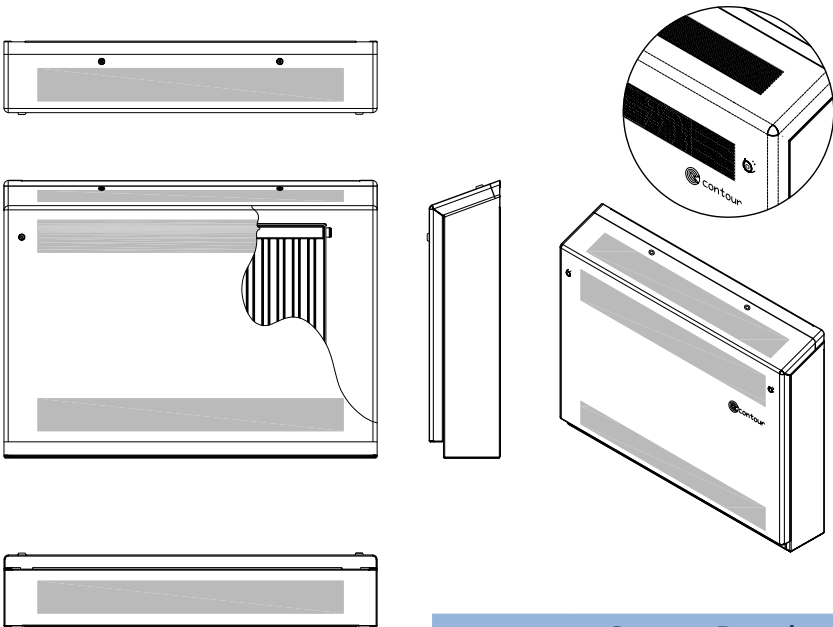
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



| Casing Depth        |                   |                     |                     |
|---------------------|-------------------|---------------------|---------------------|
| Single Fin<br>150mm | Half Fin<br>165mm | Double Fin<br>200mm | Triple Fin<br>260mm |



#### Please note:

The grille size used in anti-ligature radiator guards can inhibit the convection process. Therefore Contour cannot guarantee that the casing will not exceed a surface temperature of 43°C.



DeepClean Extra - Sloped Top - IP3X Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 150mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 600                | 600                | 173                 | 52                  | DES6006SF    | 262                 | 79                  | DES6006HF    | 337                 | 102                 | DES6006DF    |                     |                     |              |
|                    | 700                | 217                 | 65                  | DES6007SF    | 328                 | 99                  | DES6007HF    | 421                 | 127                 | DES6007DF    | 582                 | 176                 | DES6007TF    |
|                    | 800                | 260                 | 79                  | DES6008SF    | 394                 | 119                 | DES6008HF    | 505                 | 152                 | DES6008DF    | 698                 | 211                 | DES6008TF    |
|                    | 900                | 303                 | 92                  | DES6009SF    | 459                 | 139                 | DES6009HF    | 589                 | 178                 | DES6009DF    | 814                 | 246                 | DES6009TF    |
|                    | 1000               | 346                 | 105                 | DES6010SF    | 525                 | 158                 | DES6010HF    | 674                 | 203                 | DES6010DF    |                     |                     |              |
|                    | 1100               | 390                 | 118                 | DES6011SF    | 590                 | 178                 | DES6011HF    | 758                 | 229                 | DES6011DF    | 1046                | 316                 | DES6011TF    |
|                    | 1200               | 433                 | 131                 | DES6012SF    | 656                 | 198                 | DES6012HF    | 842                 | 254                 | DES6012DF    | 1162                | 351                 | DES6012TF    |
|                    | 1300               | 476                 | 144                 | DES6013SF    | 722                 | 218                 | DES6013HF    | 923                 | 279                 | DES6013DF    | 1278                | 386                 | DES6013TF    |
|                    | 1400               | 519                 | 157                 | DES6014SF    | 787                 | 238                 | DES6014HF    | 1010                | 305                 | DES6014DF    | 1395                | 421                 | DES6014TF    |
|                    | 1500               | 562                 | 170                 | DES6015SF    |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 606                 | 183                 | DES6016SF    | 918                 | 277                 | DES6016HF    | 1178                | 356                 | DES6016DF    | 1627                | 491                 | DES6016TF    |
|                    | 1800               | 693                 | 209                 | DES6018SF    | 1050                | 317                 | DES6018HF    | 1346                | 407                 | DES6018DF    | 1860                | 562                 | DES6018TF    |
|                    | 2000               | 779                 | 235                 | DES6020SF    | 1181                | 357                 | DES6020HF    | 1515                | 458                 | DES6020DF    | 2092                | 632                 | DES6020TF    |
|                    | 2200               | 866                 | 261                 | DES6022SF    |                     |                     |              | 1683                | 508                 | DES6022DF    | 2325                | 702                 | DES6022TF    |
|                    | 2400               | 952                 | 288                 | DES6024SF    |                     |                     |              | 1851                | 559                 | DES6024DF    |                     |                     |              |
|                    | 2600               | 1038                | 314                 | DES6026SF    |                     |                     |              | 2020                | 610                 | DES6026DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 700                | 600                | 223                 | 67                  | DES7006SF    | 334                 | 101                 | DES7006HF    | 431                 | 130                 | DES7006DF    |                     |                     |              |
|                    | 700                | 279                 | 84                  | DES7007SF    | 418                 | 126                 | DES7007HF    | 539                 | 163                 | DES7007DF    | 746                 | 225                 | DES7007TF    |
|                    | 800                | 334                 | 101                 | DES7008SF    | 502                 | 151                 | DES7008HF    | 646                 | 195                 | DES7008DF    | 894                 | 270                 | DES7008TF    |
|                    | 900                | 390                 | 118                 | DES7009SF    | 586                 | 177                 | DES7009HF    | 754                 | 228                 | DES7009DF    | 1043                | 315                 | DES7009TF    |
|                    | 1000               | 446                 | 135                 | DES7010SF    | 669                 | 202                 | DES7010HF    | 862                 | 260                 | DES7010DF    | 1192                | 360                 | DES7010TF    |
|                    | 1100               | 502                 | 151                 | DES7011SF    | 753                 | 227                 | DES7011HF    | 970                 | 293                 | DES7011DF    | 1342                | 405                 | DES7011TF    |
|                    | 1200               | 558                 | 168                 | DES7012SF    | 836                 | 252                 | DES7012HF    | 1078                | 325                 | DES7012DF    | 1490                | 450                 | DES7012TF    |
|                    | 1300               | 614                 | 185                 | DES7013SF    | 920                 | 278                 | DES7013HF    | 1186                | 358                 | DES7013DF    | 1639                | 495                 | DES7013TF    |
|                    | 1400               | 669                 | 202                 | DES7014SF    | 1003                | 303                 | DES7014HF    | 1293                | 390                 | DES7014DF    | 1789                | 540                 | DES7014TF    |
|                    | 1500               | 725                 | 219                 | DES7015SF    | 1087                | 328                 | DES7015HF    | 1401                | 423                 | DES7015DF    |                     |                     |              |
|                    | 1600               | 781                 | 236                 | DES7016SF    | 1170                | 353                 | DES7016HF    | 1509                | 456                 | DES7016DF    |                     |                     |              |
|                    | 1700               | 837                 | 253                 | DES7017SF    | 1254                | 379                 | DES7017HF    | 1617                | 488                 | DES7017DF    |                     |                     |              |
|                    | 1800               | 892                 | 269                 | DES7018SF    | 1338                | 404                 | DES7018HF    | 1724                | 521                 | DES7018DF    | 2385                | 720                 | DES7018TF    |
|                    | 2000               | 1004                | 303                 | DES7020SF    | 1505                | 454                 | DES7020HF    | 1940                | 586                 | DES7020DF    | 2682                | 810                 | DES7020TF    |
|                    | 2200               | 1115                | 337                 | DES7022SF    | 1672                | 505                 | DES7022HF    | 2155                | 651                 | DES7022DF    | 2981                | 900                 | DES7022TF    |
|                    | 2400               | 1226                | 370                 | DES7024SF    | 1839                | 555                 | DES7024HF    | 2370                | 716                 | DES7024DF    | 3279                | 990                 | DES7024TF    |
|                    | 2600               | 1338                | 404                 | DES7026SF    | 2006                | 606                 | DES7026HF    | 2586                | 781                 | DES7026DF    |                     |                     |              |

DeepClean Extra - Sloped Top - IP3X Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 150mm               |                     |              | 165mm               |                     |              | 200mm               |                     |              | 260mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 800                | 500                | 201                 | 61                  | DES8005SF    |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 268                 | 81                  | DES8006SF    | 402                 | 122                 | DES8006HF    | 518                 | 157                 | DES8006DF    |                     |                     |              |
|                    | 700                | 335                 | 101                 | DES8007SF    | 503                 | 152                 | DES8007HF    | 648                 | 196                 | DES8007DF    | 896                 | 271                 | DES8007TF    |
|                    | 800                | 402                 | 122                 | DES8008SF    | 603                 | 182                 | DES8008HF    | 777                 | 235                 | DES8008DF    | 1074                | 324                 | DES8008TF    |
|                    | 900                | 470                 | 142                 | DES8009SF    | 704                 | 213                 | DES8009HF    | 906                 | 274                 | DES8009DF    | 1254                | 379                 | DES8009TF    |
|                    | 1000               | 536                 | 162                 | DES8010SF    | 805                 | 243                 | DES8010HF    | 1036                | 313                 | DES8010DF    | 1433                | 433                 | DES8010TF    |
|                    | 1100               | 603                 | 182                 | DES8011SF    | 905                 | 273                 | DES8011HF    | 1166                | 352                 | DES8011DF    | 1612                | 487                 | DES8011TF    |
|                    | 1200               | 670                 | 202                 | DES8012SF    | 1006                | 304                 | DES8012HF    | 1295                | 391                 | DES8012DF    | 1791                | 541                 | DES8012TF    |
|                    | 1300               | 738                 | 223                 | DES8013SF    | 1106                | 334                 | DES8013HF    | 1425                | 430                 | DES8013DF    | 1970                | 595                 | DES8013TF    |
|                    | 1400               | 805                 | 243                 | DES8014SF    | 1206                | 364                 | DES8014HF    | 1554                | 469                 | DES8014DF    | 2150                | 649                 | DES8014TF    |
|                    | 1500               | 871                 | 263                 | DES8015SF    | 1307                | 395                 | DES8015HF    | 1684                | 509                 | DES8015DF    | 2329                | 703                 | DES8015TF    |
|                    | 1600               | 938                 | 283                 | DES8016SF    | 1408                | 425                 | DES8016HF    | 1814                | 548                 | DES8016DF    | 2508                | 757                 | DES8016TF    |
|                    | 1700               | 1006                | 304                 | DES8017SF    | 1509                | 456                 | DES8017HF    | 1943                | 587                 | DES8017DF    |                     |                     |              |
|                    | 1800               | 1073                | 324                 | DES8018SF    | 1609                | 486                 | DES8018HF    | 2072                | 626                 | DES8018DF    |                     |                     |              |
|                    | 2000               | 1206                | 364                 | DES8020SF    | 1810                | 547                 | DES8020HF    | 2331                | 704                 | DES8020DF    | 3224                | 974                 | DES8020TF    |
|                    | 2200               | 1341                | 405                 | DES8022SF    | 2011                | 607                 | DES8022HF    | 2590                | 782                 | DES8022DF    | 3582                | 1082                | DES8022TF    |
|                    | 2400               | 1475                | 446                 | DES8024SF    | 2212                | 668                 | DES8024HF    | 2850                | 861                 | DES8024DF    | 3941                | 1190                | DES8024TF    |
|                    | 2600               | 1609                | 486                 | DES8026SF    | 2414                | 729                 | DES8026HF    | 3109                | 939                 | DES8026DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 900                | 500                | 233                 | 70                  | DES9005SF    | 350                 | 106                 | DES9005HF    | 449                 | 136                 | DES9005DF    |                     |                     |              |
|                    | 600                | 310                 | 94                  | DES9006SF    | 466                 | 141                 | DES9006HF    | 598                 | 181                 | DES9006DF    | 827                 | 250                 | DES9006TF    |
|                    | 700                | 388                 | 117                 | DES9007SF    | 583                 | 176                 | DES9007HF    | 748                 | 226                 | DES9007DF    | 1034                | 312                 | DES9007TF    |
|                    | 800                | 466                 | 141                 | DES9008SF    | 699                 | 211                 | DES9008HF    | 897                 | 271                 | DES9008DF    | 1240                | 374                 | DES9008TF    |
|                    | 900                | 543                 | 164                 | DES9009SF    | 816                 | 246                 | DES9009HF    | 1046                | 316                 | DES9009DF    | 1447                | 437                 | DES9009TF    |
|                    | 1000               | 621                 | 187                 | DES9010SF    | 933                 | 282                 | DES9010HF    | 1196                | 361                 | DES9010DF    | 1654                | 499                 | DES9010TF    |
|                    | 1100               | 698                 | 211                 | DES9011SF    | 1049                | 317                 | DES9011HF    | 1346                | 406                 | DES9011DF    | 1861                | 562                 | DES9011TF    |
|                    | 1200               | 776                 | 234                 | DES9012SF    | 1166                | 352                 | DES9012HF    | 1495                | 452                 | DES9012DF    | 2067                | 624                 | DES9012TF    |
|                    | 1300               | 854                 | 258                 | DES9013SF    | 1282                | 387                 | DES9013HF    | 1645                | 497                 | DES9013DF    | 2274                | 687                 | DES9013TF    |
|                    | 1400               | 931                 | 281                 | DES9014SF    | 1398                | 422                 | DES9014HF    | 1794                | 542                 | DES9014DF    | 2481                | 749                 | DES9014TF    |
|                    | 1500               | 1009                | 305                 | DES9015SF    | 1515                | 458                 | DES9015HF    | 1944                | 587                 | DES9015DF    |                     |                     |              |
|                    | 1600               | 1086                | 328                 | DES9016SF    | 1632                | 493                 | DES9016HF    | 2094                | 632                 | DES9016DF    | 2894                | 874                 | DES9016TF    |
|                    | 1700               | 1164                | 352                 | DES9017SF    | 1749                | 528                 | DES9017HF    | 2243                | 677                 | DES9017DF    |                     |                     |              |
|                    | 1800               | 1242                | 375                 | DES9018SF    | 1865                | 563                 | DES9018HF    | 2392                | 722                 | DES9018DF    | 3307                | 999                 | DES9018TF    |
|                    | 2000               | 1397                | 422                 | DES9020SF    | 2098                | 634                 | DES9020HF    | 2691                | 813                 | DES9020DF    | 3721                | 1124                | DES9020TF    |
|                    | 2200               | 1552                | 469                 | DES9022SF    | 2331                | 704                 | DES9022HF    | 2990                | 903                 | DES9022DF    | 4134                | 1249                | DES9022TF    |
|                    | 2400               | 1707                | 516                 | DES9024SF    | 2564                | 774                 | DES9024HF    | 3290                | 993                 | DES9024DF    |                     |                     |              |
|                    | 2600               | 1862                | 562                 | DES9026SF    | 2798                | 845                 | DES9026HF    | 3589                | 1084                | DES9026DF    |                     |                     |              |

# DeepClean Extra - Sloped Top - IP3X Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22

TF/Type 33



Casing Depths

150mm

165mm

200mm

260mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1000               | 600                | 350                 | 106                 | DES1006SF    | 527                 | 159                 | DES1006HF    | 672                 | 203                 | DES1006DF    | 928                 | 280                 | DES1006TF    |
|                    | 700                | 438                 | 132                 | DES1007SF    | 659                 | 199                 | DES1007HF    | 840                 | 254                 | DES1007DF    | 1160                | 350                 | DES1007TF    |
|                    | 800                | 525                 | 158                 | DES1008SF    | 790                 | 239                 | DES1008HF    | 1008                | 304                 | DES1008DF    | 1391                | 420                 | DES1008TF    |
|                    | 900                | 612                 | 185                 | DES1009SF    | 922                 | 279                 | DES1009HF    | 1176                | 355                 | DES1009DF    | 1623                | 490                 | DES1009TF    |
|                    | 1000               | 699                 | 211                 | DES1010SF    | 1054                | 318                 | DES1010HF    | 1344                | 406                 | DES1010DF    | 1855                | 560                 | DES1010TF    |
|                    | 1100               | 787                 | 238                 | DES1011SF    | 1186                | 358                 | DES1011HF    | 1512                | 457                 | DES1011DF    | 2087                | 630                 | DES1011TF    |
|                    | 1200               | 874                 | 264                 | DES1012SF    | 1318                | 398                 | DES1012HF    | 1680                | 507                 | DES1012DF    | 2319                | 700                 | DES1012TF    |
|                    | 1300               | 962                 | 290                 | DES1013SF    | 1450                | 438                 | DES1013HF    | 1848                | 558                 | DES1013DF    | 2551                | 770                 | DES1013TF    |
|                    | 1400               | 1050                | 317                 | DES1014SF    | 1581                | 477                 | DES1014HF    | 2016                | 609                 | DES1014DF    | 2783                | 841                 | DES1014TF    |
|                    | 1500               | 1137                | 343                 | DES1015SF    | 1713                | 517                 | DES1015HF    | 2184                | 660                 | DES1015DF    |                     |                     |              |
|                    | 1600               | 1224                | 370                 | DES1016SF    | 1845                | 557                 | DES1016HF    | 2352                | 710                 | DES1016DF    | 3247                | 981                 | DES1016TF    |
|                    | 1700               | 1312                | 396                 | DES1017SF    |                     |                     |              | 2520                | 761                 | DES1017DF    |                     |                     |              |
|                    | 1800               | 1399                | 423                 | DES1018SF    | 2108                | 637                 | DES1018HF    | 2688                | 812                 | DES1018DF    | 3710                | 1121                | DES1018TF    |
|                    | 2000               | 1574                | 475                 | DES1020SF    | 2372                | 716                 | DES1020HF    | 3024                | 913                 | DES1020DF    |                     |                     |              |
|                    | 2200               | 1749                | 528                 | DES1022SF    |                     |                     |              | 3360                | 1015                | DES1022DF    |                     |                     |              |
|                    | 2400               | 1924                | 581                 | DES1024SF    |                     |                     |              | 3696                | 1116                | DES1024DF    |                     |                     |              |
|                    | 2600               | 2098                | 634                 | DES1026SF    |                     |                     |              | 4032                | 1218                | DES1026DF    |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1200               | 600                | 419                 | 127                 | DES1206SF    | 640                 | 193                 | DES1206HF    | 802                 | 242                 | DES1206DF    | 1103                | 333                 | DES1206TF    |
|                    | 700                | 525                 | 158                 | DES1207SF    | 800                 | 242                 | DES1207HF    | 1003                | 303                 | DES1207DF    | 1379                | 417                 | DES1207TF    |
|                    | 800                | 630                 | 190                 | DES1208SF    | 959                 | 290                 | DES1208HF    | 1203                | 363                 | DES1208DF    | 1655                | 500                 | DES1208TF    |
|                    | 900                | 734                 | 222                 | DES1209SF    | 1119                | 338                 | DES1209HF    | 1404                | 424                 | DES1209DF    | 1931                | 583                 | DES1209TF    |
|                    | 1000               | 839                 | 253                 | DES1210SF    | 1280                | 387                 | DES1210HF    | 1605                | 485                 | DES1210DF    | 2206                | 666                 | DES1210TF    |
|                    | 1100               | 944                 | 285                 | DES1211SF    |                     |                     |              | 1805                | 545                 | DES1211DF    | 2482                | 750                 | DES1211TF    |
|                    | 1200               | 1049                | 317                 | DES1212SF    |                     |                     |              | 2006                | 606                 | DES1212DF    | 2758                | 833                 | DES1212TF    |
|                    | 1300               | 1154                | 348                 | DES1213SF    |                     |                     |              | 2206                | 666                 | DES1213DF    |                     |                     |              |
|                    | 1400               | 1258                | 380                 | DES1214SF    |                     |                     |              | 2406                | 727                 | DES1214DF    |                     |                     |              |
|                    | 1500               |                     |                     |              |                     |                     |              | 2607                | 787                 | DES1215DF    |                     |                     |              |
|                    | 1600               | 1468                | 443                 | DES1216SF    |                     |                     |              | 2808                | 848                 | DES1216DF    |                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

\*Please note: the highlighted lines are on an 13-17 weeks lead time.\*



# Vertical Anti-ligature Radiators

Whilst vertical radiators offer the space-saving advantages that standard LSTs perhaps do not, the standard grilles do pose a ligature risk. This is particularly important to note when working in mental health, challenging and secure environments where Service Users are vulnerable to self-harming tendencies.

With its 2mm holes at 4mm centres punched directly into the radiator guard, the risk of users securing rope or cord around an anchor point is greatly reduced.

Contour's Vertical Anti-Ligature Radiator comes with BioCote® anti-microbial protection to ensure safety standards for hygiene are met. The presence of the anti-microbial technology offers a 99.5% reduction in bacteria levels in under 2 hours.

Contour have developed two designs of casing for the vertical range.

## Sloping Top

The sloping top design allows for a vertical radiators to be installed where there is not enough width to install a conventional radiator. The sloping top design utilises all of the features of the Deepclean Extra design, with additional strengthening struts on the front face of the cover to help cope with demanding environments.

This design is best suited where the pipe work is entering from below the radiator or at low level.

## Floor to ceiling

Depending on the environment, pipe work layout or ceiling heights, the floor to ceiling design makes sure that all services are covered up.

The floor to ceiling design allows for the pipework to enter from the ceiling directly into the casing giving the designers and installers more flexibility when dealing with awkward spaces to fit a radiator on to.

The top collar allows for uneven floors and ceilings.

Additional strengthening struts in the front face of the door adds strength into the door to help cope with demanding environments.



# DeepClean Extra - Vertical

## Sloping Top - Floor to Ceiling

### Summary:

#### Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- IP3x rated 2mm dia holes @ 4mm Centres in a triangular Pitch Formation Punched Grille
- Cut-outs programmed into manufacture

#### Emitter:

- Vertical steel radiators
- 6 Bar Max Operating Pressure
- EN442 Tested and Certified

#### Sizes

- Single Casing Lengths 400mm - 1100mm
- Single Casing Heights 1900mm - 2300mm
- Bespoke solutions available

#### Valve options available:

- Internal TRV kit 9210-13
- Remote sensing TRV kit 7463-41
- External Back To Wall Anti-Ligature TRV kit
- Alternative valve patterns and sizes are available upon request

#### Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available
- Patented BioCote® anti-microbial agent as standard

#### Fixings:

- All fixings internal
- 8mm Pinhex security locks

### Technical Information & Specifications

#### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding vertical radiators and the option of a 90degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

#### Optional Extras

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts
- Door cables

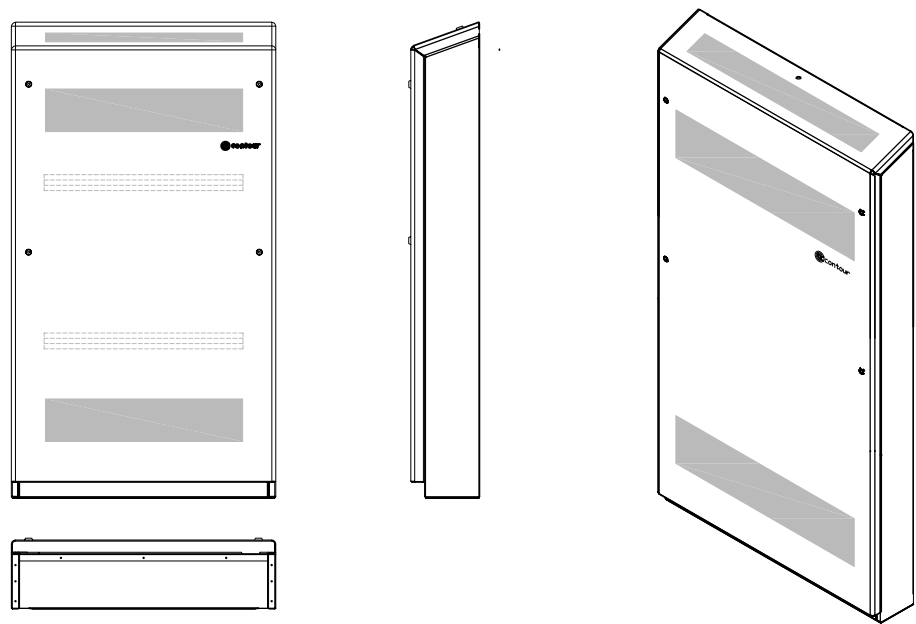
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



#### Casing Depth

|                   |                     |
|-------------------|---------------------|
| Half Fin<br>165mm | Double Fin<br>195mm |
|-------------------|---------------------|



# DeepClean Extra - Vertical - Sloped Top - IP3X Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22



Casing Depths

150mm

165mm

200mm

| Casing Height (mm) | Casing Length (mm) | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code |
|--------------------|--------------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|
| 1900               | 400                | 239                           | 72                            | DEVSF1904SF  | 542                           | 164                           | DEVSF1904HF  |                               |                               |              |
|                    | 500                | 398                           | 120                           | DEVSF1905SF  | 677                           | 204                           | DEVSF1905HF  | 893                           | 270                           | DEVSF1905DF  |
|                    | 600                | 493                           | 149                           | DEVSF1906SF  | 870                           | 263                           | DEVSF1906HF  | 1138                          | 344                           | DEVSF1906DF  |
|                    | 700                | 590                           | 178                           | DEVSF1907SF  | 1058                          | 320                           | DEVSF1907HF  | 1382                          | 417                           | DEVSF1907DF  |
|                    | 800                | 688                           | 208                           | DEVSF1908SF  | 1243                          | 375                           | DEVSF1908HF  | 1627                          | 491                           | DEVSF1908DF  |
|                    | 900                | 784                           | 237                           | DEVSF1909SF  | 1423                          | 430                           | DEVSF1909HF  | 1898                          | 573                           | DEVSF1909DF  |
|                    | 1100               | 1008                          | 304                           | DEVSF1911F   | 1830                          | 553                           | DEVSF1911HF  | 2441                          | 737                           | DEVSF1911DF  |

| Casing Height (mm) | Casing Length (mm) | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code |
|--------------------|--------------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|
| 2100               | 400                | 270                           | 81                            | DEVSF2104SF  | 609                           | 184                           | DEVSF2104HF  |                               |                               |              |
|                    | 500                | 426                           | 129                           | DEVSF2105SF  | 738                           | 223                           | DEVSF2105HF  | 934                           | 282                           | DEVSF2105DF  |
|                    | 600                | 536                           | 162                           | DEVSF2106SF  | 950                           | 287                           | DEVSF2106HF  | 1209                          | 365                           | DEVSF2106DF  |
|                    | 700                | 645                           | 195                           | DEVSF2107F   | 1156                          | 349                           | DEVSF2107HF  | 1484                          | 448                           | DEVSF2107DF  |
|                    | 800                | 754                           | 228                           | DEVSF2108SF  | 1358                          | 410                           | DEVSF2108HF  | 1758                          | 531                           | DEVSF2108DF  |
|                    | 900                | 862                           | 260                           | DEVSF2109SF  | 1554                          | 469                           | DEVSF2109HF  | 2051                          | 619                           | DEVSF2109DF  |
|                    | 1100               | 1109                          | 335                           | DEVSF2111SF  | 1998                          | 603                           | DEVSF2111HF  | 2637                          | 796                           | DEVSF2111DF  |

| Casing Height (mm) | Casing Length (mm) | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code | Output Watts ( $\Delta T50$ ) | Output Watts ( $\Delta T20$ ) | Product Code |
|--------------------|--------------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|--------------|
| 2300               | 400                | 299                           | 90                            | DEVSF2304SF  | 677                           | 204                           |              |                               |                               |              |
|                    | 500                | 460                           | 139                           | DEVSF2305SF  | 797                           | 241                           |              | 1007                          | 304                           | DEVSF2305DF  |
|                    | 600                | 575                           | 174                           | DEVSF2306SF  | 1026                          | 310                           |              | 1302                          | 393                           | DEVSF2306DF  |
|                    | 700                | 691                           | 209                           | DEVSF2307SF  | 1249                          | 377                           | DEVSF2307HF  | 1599                          | 483                           | DEVSF2307DF  |
|                    | 800                | 807                           | 244                           | DEVSF2308SF  | 1466                          | 443                           |              | 1896                          | 573                           | DEVSF2308DF  |
|                    | 900                | 923                           | 279                           | DEVSF2309SF  | 1679                          | 507                           |              | 2212                          | 668                           | DEVSF2309DF  |
|                    | 1100               | 1187                          | 359                           | DEVSF2311SF  | 2159                          | 652                           | DEVSF2311HF  | 2843                          | 859                           | DEVSF2311DF  |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

\*Please note: the highlighted lines are on an 13-17 weeks lead time.\*



# Bespoke Options

No matter what project we take on there is always a challenge to overcome. Although we do offer standard sizes with our LST radiator range, we often find that a one size fits all approach doesn't give the customer and the project the best outcome.

Contour prides itself on being able to offer a bespoke approach to each project making sure that the client is left with a product that is the best it can be and doesn't leave any annoyances that could have been avoided. This could include dust traps, potential ligature points, additional boxing to cover up small sections of pipework.

Options that Contour can cover is;

- Wall to wall covers
- Vertical covers
- Bay window
- Free standing
- Corner fitting covers
- Covers suitable for wet rooms
- Guards suitable to go above window sills
- Cut outs to go around plug sockets, electrical trunking, window sills, pipe boxing, skirting boards, pipe work, TRV heads and more



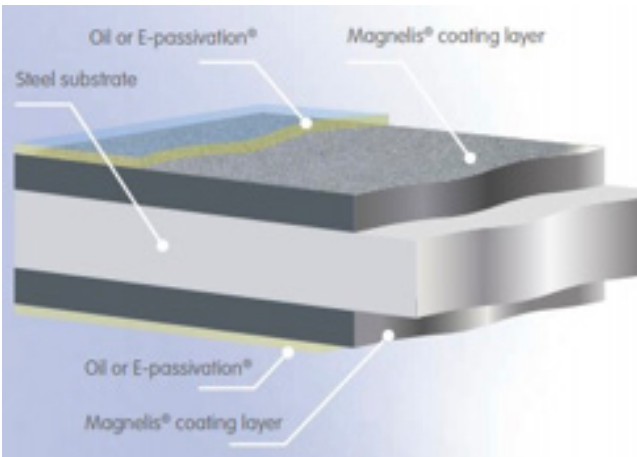
Corner Fitting



Wall-to-wall



Bespoke OES with TRV Head



Magnelis Coating



Wall-to-wall



Wall-to-wall



# Covora

**Designed to ensure safety compliance, the Covora range is the solution for an easy to fit, high-quality Low Surface Temperature radiator, available at a value for money price.**

Covora is the ideal LST heating solution for use in:

- GP surgeries and health centres
- Nursing & care homes and daycare centres
- Nurseries, schools, colleges and universities
- Student accommodation
- Leisure centres
- Public libraries
- Offices and reception areas
- Hotel lobbies and public areas
- Restaurants
- Retail spaces
- Cinemas, theatres and entertainment complexes
- Public transport terminals

## Designed To Ensure Safer Environments

The Covora range is ideal for building services contractors and heating and plumbing installers, who are working to price-sensitive budgets but require simple, high-quality safety compliant radiators.

With bullnose corners and half bullnose edges, Covora increases in product strength and the risks of an injury in the event of a fall are significantly reduced.

Covora LST radiator casings now come with BioCote® antimicrobial coating as standard on models finished in White RAL 9003 – to help reduce the risk of infection transmission where the maintenance of hygiene is a priority.

# Covora

The Contour Covora LST radiator, which is made in the UK, is available in a range of colours, making it ideal for areas such as hotel lobbies, leisure centres and retail spaces, where appearance as well as functionality is important.

BioCote® coating as standard for complete antimicrobial protection to ensure optimal hygiene maintenances

Available in over 140 sizes across single convector, double panel plus and double convector emitter models

The radiator cover is supplied as a one-piece unit complete with pre-fabricated cut-outs for valves, skirting boards and pipework, for ease and speed of installation

Bullnose corners and half bullnose edges on the cover increase the product strength and reduce the risk of injury in the event of a fall against the cover

The radiator cover is manufactured from 1.5mm zintec steel as standard and punched with 5.5mm wide radius grilles. The radius grille design makes it easier to clean, and the narrow grille width prevents small items and/or fingers getting trapped

The radiator cover is polyester powder coated to an average thickness of 60 microns internally and externally, in RAL 9003 White as standard. A wide range of other RAL colours are also available to order

# Covora LST

### Summary:

**Manufacture:**

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Patented full height front access door with hinge (Pat. No. 2 410 544)
- 5.5mm Punched grille
- Cut-outs programmed into manufacture

**Emitter:**

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar -(tested to 13 bar/188PSI)

**Sizes:**

- Casing lengths from 600mm - 2000mm
- Bespoke options available

**Valve options available:**

- Internal TRV kit 9210-13
- External TRV kit 9231-41
- Remote sensing TRV kit 7463-41
- Alternative valve patterns and sizes are available upon request

**Finish:**

- Polyester powder coated RAL 9003 as standard. Other colour finishes available
- Patented BioCote® anti-microbial agent as standard

**Fixings:**

- Joggle brackets
- Side fixing optional

## Technical Information & Specifications

**Standard delivery**

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and the option of a 90degree Herz ½” valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- Split delivery\* option: to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators.
- Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

**Optional Extras**

- Magnelis for wet rooms
- Different guages of material available
- Strengthening struts

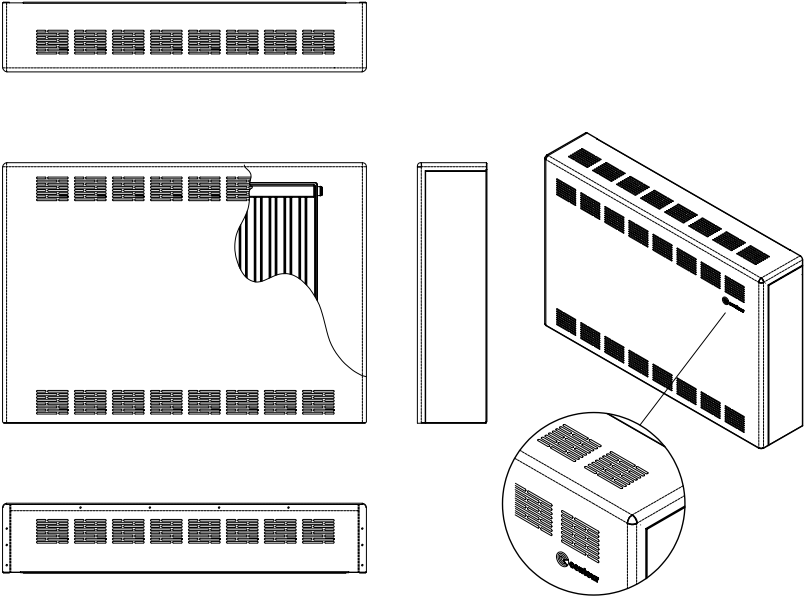
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



| Casing Depth        |                   |                     |
|---------------------|-------------------|---------------------|
| Single Fin<br>115mm | Half Fin<br>135mm | Double Fin<br>175mm |





Covora - Flat Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 115mm               |                     |              | 135mm               |                     |              | 175mm               |                     |              | 235mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 550                | 600                | 192                 | 58                  | C5506SF      | 292                 | 88                  | C5506HF      | 375                 | 113                 | C5506DF      |                     |                     |              |
|                    | 700                | 241                 | 73                  | C5507SF      | 365                 | 110                 | C5507HF      | 468                 | 141                 | C5507DF      | 647                 | 195                 | C5507TF      |
|                    | 800                | 289                 | 87                  | C5508SF      | 438                 | 132                 | C5508HF      | 562                 | 170                 | C5508DF      | 776                 | 234                 | C5508TF      |
|                    | 900                | 337                 | 102                 | C5509SF      | 511                 | 154                 | C5509HF      | 655                 | 198                 | C5509DF      | 905                 | 273                 | C5509TF      |
|                    | 1000               | 385                 | 116                 | C5510SF      | 584                 | 176                 | C5510HF      | 749                 | 226                 | C5510DF      |                     |                     |              |
|                    | 1100               | 433                 | 131                 | C5511SF      | 657                 | 198                 | C5511HF      | 843                 | 255                 | C5511DF      | 1164                | 352                 | C5511TF      |
|                    | 1200               | 481                 | 145                 | C5512SF      | 730                 | 220                 | C5512HF      | 936                 | 283                 | C5512DF      | 1293                | 391                 | C5512TF      |
|                    | 1300               | 530                 | 160                 | C5513SF      | 803                 | 242                 | C5513HF      | 1027                | 310                 | C5513DF      | 1422                | 430                 | C5513TF      |
|                    | 1400               | 578                 | 174                 | C5514SF      | 876                 | 264                 | C5514HF      | 1123                | 339                 | C5514DF      | 1552                | 469                 | C5514TF      |
|                    | 1500               | 626                 | 189                 | C5515SF      |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 674                 | 203                 | C5516SF      | 1022                | 309                 | C5516HF      | 1311                | 396                 | C5516DF      | 1810                | 547                 | C5516TF      |
|                    | 1800               | 771                 | 233                 | C5518SF      | 1168                | 353                 | C5518HF      | 1498                | 452                 | C5518DF      | 2069                | 625                 | C5518TF      |
|                    | 2000               | 867                 | 262                 | C5520SF      | 1314                | 397                 | C5520HF      | 1686                | 509                 | C5520DF      | 2327                | 703                 | C5520TF      |
|                    | 2200               | 963                 | 291                 | C5522SF      |                     |                     |              | 1873                | 566                 | C5522DF      | 2586                | 781                 | C5522TF      |
|                    | 2400               | 1059                | 320                 | C5524SF      |                     |                     |              | 2059                | 622                 | C5524DF      |                     |                     |              |
|                    | 2600               | 1155                | 349                 | C5526SF      |                     |                     |              | 2247                | 679                 | C5526DF      |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 650                | 600                | 248                 | 75                  | C6506SF      | 372                 | 112                 | C6506HF      | 480                 | 145                 | C6506DF      |                     |                     |              |
|                    | 700                | 311                 | 94                  | C6507SF      | 465                 | 141                 | C6507HF      | 600                 | 181                 | C6507DF      | 829                 | 251                 | C6507TF      |
|                    | 800                | 372                 | 112                 | C6508SF      | 558                 | 169                 | C6508HF      | 719                 | 217                 | C6508DF      | 995                 | 300                 | C6508TF      |
|                    | 900                | 434                 | 131                 | C6509SF      | 651                 | 197                 | C6509HF      | 839                 | 253                 | C6509DF      | 1161                | 350                 | C6509TF      |
|                    | 1000               | 497                 | 150                 | C6510SF      | 744                 | 225                 | C6510HF      | 959                 | 290                 | C6510DF      | 1326                | 400                 | C6510TF      |
|                    | 1100               | 558                 | 169                 | C6511SF      | 837                 | 253                 | C6511HF      | 1079                | 326                 | C6511DF      | 1493                | 451                 | C6511TF      |
|                    | 1200               | 620                 | 187                 | C6512SF      | 930                 | 281                 | C6512HF      | 1199                | 362                 | C6512DF      | 1658                | 501                 | C6512TF      |
|                    | 1300               | 683                 | 206                 | C6513SF      | 1024                | 309                 | C6513HF      | 1319                | 398                 | C6513DF      | 1824                | 551                 | C6513TF      |
|                    | 1400               | 744                 | 225                 | C6514SF      | 1116                | 337                 | C6514HF      | 1438                | 434                 | C6514DF      | 1990                | 601                 | C6514TF      |
|                    | 1500               | 806                 | 244                 | C6515SF      | 1210                | 365                 | C6515HF      | 1558                | 471                 | C6515DF      |                     |                     |              |
|                    | 1600               | 869                 | 262                 | C6516SF      | 1302                | 393                 | C6516HF      | 1679                | 507                 | C6516DF      |                     |                     |              |
|                    | 1700               | 931                 | 281                 | C6517SF      | 1396                | 421                 | C6517HF      | 1799                | 543                 | C6517DF      |                     |                     |              |
|                    | 1800               | 992                 | 300                 | C6518SF      | 1488                | 449                 | C6518HF      | 1918                | 579                 | C6518DF      | 2653                | 801                 | C6518TF      |
|                    | 2000               | 1117                | 337                 | C6520SF      | 1674                | 506                 | C6520HF      | 2158                | 652                 | C6520DF      | 2984                | 901                 | C6520TF      |
|                    | 2200               | 1241                | 375                 | C6522SF      | 1860                | 562                 | C6522HF      | 2398                | 724                 | C6522DF      | 3316                | 1001                | C6522TF      |
|                    | 2400               | 1364                | 412                 | C6524SF      | 2046                | 618                 | C6524HF      | 2637                | 796                 | C6524DF      | 3648                | 1102                | C6524TF      |
|                    | 2600               | 1489                | 450                 | C6526SF      | 2232                | 674                 | C6526HF      | 2877                | 869                 | C6526DF      |                     |                     |              |

Covora - Flat Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 115mm               |                     |              | 135mm               |                     |              | 175mm               |                     |              | 235mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 750                | 500                | 223                 | 67                  | C7505SF      |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 298                 | 90                  | C7506SF      | 448                 | 135                 | C7506HF      | 577                 | 174                 | C7506DF      |                     |                     |              |
|                    | 700                | 373                 | 113                 | C7507SF      | 560                 | 169                 | C7507HF      | 721                 | 218                 | C7507DF      | 997                 | 301                 | C7507TF      |
|                    | 800                | 448                 | 135                 | C7508SF      | 671                 | 203                 | C7508HF      | 864                 | 261                 | C7508DF      | 1195                | 361                 | C7508TF      |
|                    | 900                | 522                 | 158                 | C7509SF      | 783                 | 237                 | C7509HF      | 1008                | 305                 | C7509DF      | 1395                | 421                 | C7509TF      |
|                    | 1000               | 596                 | 180                 | C7510SF      | 895                 | 270                 | C7510HF      | 1153                | 348                 | C7510DF      | 1594                | 481                 | C7510TF      |
|                    | 1100               | 671                 | 203                 | C7511SF      | 1007                | 304                 | C7511HF      | 1297                | 392                 | C7511DF      | 1793                | 542                 | C7511TF      |
|                    | 1200               | 746                 | 225                 | C7512SF      | 1119                | 338                 | C7512HF      | 1441                | 435                 | C7512DF      | 1993                | 602                 | C7512TF      |
|                    | 1300               | 821                 | 248                 | C7513SF      | 1231                | 372                 | C7513HF      | 1585                | 479                 | C7513DF      | 2192                | 662                 | C7513TF      |
|                    | 1400               | 895                 | 270                 | C7514SF      | 1342                | 405                 | C7514HF      | 1729                | 522                 | C7514DF      | 2391                | 722                 | C7514TF      |
|                    | 1500               | 969                 | 293                 | C7515SF      | 1454                | 439                 | C7515HF      | 1873                | 566                 | C7515DF      | 2591                | 782                 | C7515TF      |
|                    | 1600               | 1044                | 315                 | C7516SF      | 1566                | 473                 | C7516HF      | 2018                | 609                 | C7516DF      | 2790                | 843                 | C7516TF      |
|                    | 1700               | 1119                | 338                 | C7517SF      | 1679                | 507                 | C7517HF      | 2162                | 653                 | C7517DF      |                     |                     |              |
|                    | 1800               | 1193                | 360                 | C7518SF      | 1790                | 541                 | C7518HF      | 2305                | 696                 | C7518DF      |                     |                     |              |
|                    | 2000               | 1342                | 405                 | C7520SF      | 2014                | 608                 | C7520HF      | 2593                | 783                 | C7520DF      | 3587                | 1083                | C7520TF      |
|                    | 2200               | 1492                | 450                 | C7522SF      | 2237                | 676                 | C7522HF      | 2882                | 870                 | C7522DF      | 3985                | 1204                | C7522TF      |
|                    | 2400               | 1641                | 496                 | C7524SF      | 2461                | 743                 | C7524HF      | 3170                | 957                 | C7524DF      | 4384                | 1324                | C7524TF      |
|                    | 2600               | 1790                | 541                 | C7526SF      | 2685                | 811                 | C7526HF      | 3459                | 1044                | C7526DF      |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 850                | 500                | 259                 | 78                  | C8505SF      | 389                 | 117                 | C8505HF      | 499                 | 151                 | C8505DF      |                     |                     |              |
|                    | 600                | 345                 | 104                 | C8506SF      | 519                 | 157                 | C8506HF      | 666                 | 201                 | C8506DF      | 920                 | 278                 | C8506TF      |
|                    | 700                | 432                 | 130                 | C8507SF      | 649                 | 196                 | C8507HF      | 832                 | 251                 | C8507DF      | 1150                | 347                 | C8507TF      |
|                    | 800                | 518                 | 156                 | C8508SF      | 778                 | 235                 | C8508HF      | 998                 | 301                 | C8508DF      | 1380                | 417                 | C8508TF      |
|                    | 900                | 604                 | 183                 | C8509SF      | 908                 | 274                 | C8509HF      | 1164                | 352                 | C8509DF      | 1610                | 486                 | C8509TF      |
|                    | 1000               | 691                 | 209                 | C8510SF      | 1038                | 313                 | C8510HF      | 1331                | 402                 | C8510DF      | 1840                | 556                 | C8510TF      |
|                    | 1100               | 777                 | 235                 | C8511SF      | 1167                | 352                 | C8511HF      | 1497                | 452                 | C8511DF      | 2070                | 625                 | C8511TF      |
|                    | 1200               | 863                 | 261                 | C8512SF      | 1297                | 392                 | C8512HF      | 1663                | 502                 | C8512DF      | 2300                | 695                 | C8512TF      |
|                    | 1300               | 950                 | 287                 | C8513SF      | 1427                | 431                 | C8513HF      | 1830                | 553                 | C8513DF      | 2529                | 764                 | C8513TF      |
|                    | 1400               | 1036                | 313                 | C8514SF      | 1556                | 470                 | C8514HF      | 1996                | 603                 | C8514DF      | 2760                | 833                 | C8514TF      |
|                    | 1500               | 1122                | 339                 | C8515SF      | 1686                | 509                 | C8515HF      | 2163                | 653                 | C8515DF      |                     |                     |              |
|                    | 1600               | 1209                | 365                 | C8516SF      | 1816                | 548                 | C8516HF      | 2329                | 703                 | C8516DF      | 3220                | 972                 | C8516TF      |
|                    | 1700               | 1295                | 391                 | C8517SF      | 1946                | 588                 | C8517HF      | 2496                | 754                 | C8517DF      |                     |                     |              |
|                    | 1800               | 1381                | 417                 | C8518SF      | 2075                | 627                 | C8518HF      | 2661                | 804                 | C8518DF      | 3679                | 1111                | C8518TF      |
|                    | 2000               | 1554                | 469                 | C8520SF      | 2334                | 705                 | C8520HF      | 2994                | 904                 | C8520DF      | 4139                | 1250                | C8520TF      |
|                    | 2200               | 1727                | 521                 | C8522SF      | 2593                | 783                 | C8522HF      | 3327                | 1005                | C8522DF      | 4600                | 1389                | C8522TF      |
|                    | 2400               | 1899                | 574                 | C8524SF      | 2852                | 861                 | C8524HF      | 3660                | 1105                | C8524DF      |                     |                     |              |
|                    | 2600               | 2072                | 626                 | C8526SF      | 3112                | 940                 | C8526HF      | 3993                | 1206                | C8526DF      |                     |                     |              |

# Covora - Flat Top - Standard Grilles



Radiator Type

SF/Type 11

HF/Type 12

DF/Type 22

TF/Type 33



Casing Depths

115mm

135mm

175mm

235mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 950                | 600                | 389                 | 117                 | C9506SF      | 587                 | 177                 | C9506HF      | 748                 | 226                 | C9506DF      | 1032                | 312                 | C9506TF      |
|                    | 700                | 487                 | 147                 | C9507SF      | 733                 | 221                 | C9507HF      | 935                 | 282                 | C9507DF      | 1291                | 390                 | C9507TF      |
|                    | 800                | 584                 | 176                 | C9508SF      | 879                 | 266                 | C9508HF      | 1121                | 339                 | C9508DF      | 1548                | 467                 | C9508TF      |
|                    | 900                | 681                 | 206                 | C9509SF      | 1026                | 310                 | C9509HF      | 1308                | 395                 | C9509DF      | 1806                | 545                 | C9509TF      |
|                    | 1000               | 778                 | 235                 | C9510SF      | 1173                | 354                 | C9510HF      | 1495                | 452                 | C9510DF      | 2064                | 623                 | C9510TF      |
|                    | 1100               | 876                 | 264                 | C9511SF      | 1319                | 398                 | C9511HF      | 1682                | 508                 | C9511DF      | 2322                | 701                 | C9511TF      |
|                    | 1200               | 973                 | 294                 | C9512SF      | 1466                | 443                 | C9512HF      | 1869                | 564                 | C9512DF      | 2580                | 779                 | C9512TF      |
|                    | 1300               | 1070                | 323                 | C9513SF      | 1613                | 487                 | C9513HF      | 2056                | 621                 | C9513DF      | 2838                | 857                 | C9513TF      |
|                    | 1400               | 1168                | 353                 | C9514SF      | 1759                | 531                 | C9514HF      | 2243                | 677                 | C9514DF      | 3096                | 935                 | C9514TF      |
|                    | 1500               | 1265                | 382                 | C9515SF      | 1905                | 575                 | C9515HF      | 2430                | 734                 | C9515DF      |                     |                     |              |
|                    | 1600               | 1362                | 411                 | C9516SF      | 2052                | 620                 | C9516HF      | 2617                | 790                 | C9516DF      | 3613                | 1091                | C9516TF      |
|                    | 1700               | 1460                | 441                 | C9517SF      |                     |                     |              | 2804                | 847                 | C9517DF      |                     |                     |              |
|                    | 1800               | 1557                | 470                 | C9518SF      | 2345                | 708                 | C9518HF      | 2990                | 903                 | C9518DF      | 4128                | 1247                | C9518TF      |
|                    | 2000               | 1751                | 529                 | C9520SF      | 2639                | 797                 | C9520HF      | 3364                | 1016                | C9520DF      |                     |                     |              |
|                    | 2200               | 1946                | 588                 | C9522SF      |                     |                     |              | 3738                | 1129                | C9522DF      |                     |                     |              |
|                    | 2400               | 2140                | 646                 | C9524SF      |                     |                     |              | 4112                | 1242                | C9524DF      |                     |                     |              |
|                    | 2600               | 2334                | 705                 | C9526SF      |                     |                     |              | 4486                | 1355                | C9526DF      |                     |                     |              |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 1150               | 600                | 466                 | 141                 | C1106SF      | 712                 | 215                 | C1106HF      | 893                 | 270                 | C1106DF      | 1227                | 371                 | C1106TF      |
|                    | 700                | 584                 | 176                 | C1107SF      | 890                 | 269                 | C1107HF      | 1116                | 337                 | C1107DF      | 1534                | 463                 | C1107TF      |
|                    | 800                | 700                 | 212                 | C1108SF      | 1067                | 322                 | C1108HF      | 1339                | 404                 | C1108DF      | 1841                | 556                 | C1108TF      |
|                    | 900                | 817                 | 247                 | C1109SF      | 1245                | 376                 | C1109HF      | 1562                | 472                 | C1109DF      | 2148                | 649                 | C1109TF      |
|                    | 1000               | 934                 | 282                 | C1110SF      | 1424                | 430                 | C1110HF      | 1785                | 539                 | C1110DF      | 2455                | 741                 | C1110TF      |
|                    | 1100               | 1050                | 317                 | C1111SF      |                     |                     |              | 2008                | 606                 | C1111DF      | 2762                | 834                 | C1111TF      |
|                    | 1200               | 1167                | 352                 | C1112SF      |                     |                     |              | 2231                | 674                 | C1112DF      | 3069                | 927                 | C1112TF      |
|                    | 1300               | 1283                | 388                 | C1113SF      |                     |                     |              | 2455                | 741                 | C1113DF      |                     |                     |              |
|                    | 1400               | 1400                | 423                 | C1114SF      |                     |                     |              | 2677                | 808                 | C1114DF      |                     |                     |              |
|                    | 1500               |                     |                     |              |                     |                     |              | 2901                | 876                 | C1115DF      |                     |                     |              |
|                    | 1600               | 1633                | 493                 | C1116SF      |                     |                     |              | 3124                | 943                 | C1116DF      |                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

\*Please note: the highlighted lines are on an 13-17 weeks lead time.\*



# Covora Lite

**Covora Lite LST radiators ensure safe surface temperatures. These radiators are the ideal and affordable heating solution for classrooms and student accommodation refurbishments.**

Safe, robust and cost-effective, Covora Lite is a one-piece construction LST radiator with a much faster turnaround when compared with other Contour products. All end panels are manufactured and kept in stock ready for the front panel to be punched, this forward thinking ensures Covora Lite is delivered much quicker.

The strengthening ridges on the front of the cover allows for a stronger design whilst being more aesthetically pleasing.

Covora Lite also comes with easy to clean, narrow width ventilation grilles. This is to prevent the insertion of pens, pencils and other small items that could potentially damage the radiator itself.

Manufactured from 1.2mm Zintec steel and finished in a RAL 9003 white gloss BioCote protected polyester powder coating, Covora Lite is a strong radiator option that is resilient to impact.

Contour's range of Covora Lite LST radiators are available in a wide range of RAL colours\* allowing them to seamlessly blend into the design of your environment.

Covora Lite is available in over 140 sizes across

- Single Fin models
- Half Fin models
- Double Fin models

The installation of Covora Lite is quick and hassle-free: radiator covers are supplied as a one-piece construction. To aid the installation process and construction programme, the radiators and valves can be delivered ahead of the covers to minimise damage before handover.

\*Covora Lite comes powder coated in RAL 9003 as standard ensuring a quick turnaround. Additional colours would affect the lead time of the product.

# Covora lite

Manufactured in the UK, Covora Lite is a cost-effective LST radiator suited for classrooms and student accommodation. This one-piece construction radiator is finished in a RAL 9003 white powder coating as standard and has a much faster lead time than other Contour products.

Available with BioCote® coating as standard for complete antimicrobial protection to ensure optimal hygiene maintenances

Bullnose corners and half bullnose edges on the cover increase the product strength and reduce the risk of injury in the event of a fall against the cover

The radiator cover is manufactured from 1.2mm Zintec Steel as standard and punched with 5.5mm wide radius grilles. The radius grille design makes it easier to clean, and the narrow grille width prevents small items and/or fingers getting trapped

Available in over 200 sizes across single convector, double panel plus and double convector emitter models

The Radiator cover is supplied as a one-piece unit complete with pre fabricated cut-outs for external valve head.

Easy to use external TRV head for remote adjustment

The radiator cover is polyester powder coated to an average thickness of 60 microns internally and externally, in RAL 9003 White as standard.

# Covora Lite LST

## Summary:

### Manufacture:

- 1.2mm Zintec steel
- 10mm Radius edges / bullnose corners
- 5.5mm Punched grille
- Strengthening ridges to the front panel
- Embossed logo

### Emitter:

- Compact steel panel radiators. EN 442 tested and certified
- Operating pressure 10 bar -(tested to 13 bar/188PSI)

### Sizes:

- Lengths range from 500mm to 2200mm
- Heights range from 400mm to 950mm

### Valve options available:

- Internal TRV kit 9210-13
- External TRV kit 9330-41
- Remote sensing TRV kit 7463-41

### Finish:

- Polyester powder coated RAL 9003 as standard. Other colour finishes available
- Patented BioCote® anti-microbial agent as standard

### Fixings:

- Joggle brackets
- Side fixing optional

## Technical Information & Specifications

### Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Compact emitter (Single Fin, Half Fin, Double Fin and Triple Fin as specified) and a 90degree Herz ½" valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- Split delivery\* to reduce the risk of radiator casings becoming damaged or lost on site, Contour offer split deliveries as standard on all LST radiators. Radiators and valves are delivered first then once the heating system is installed, tested and commissioned, casings are delivered. This virtually eliminates storage problems and the risk of on-site damage.

\*Additional carriage charges will apply for multiple phases

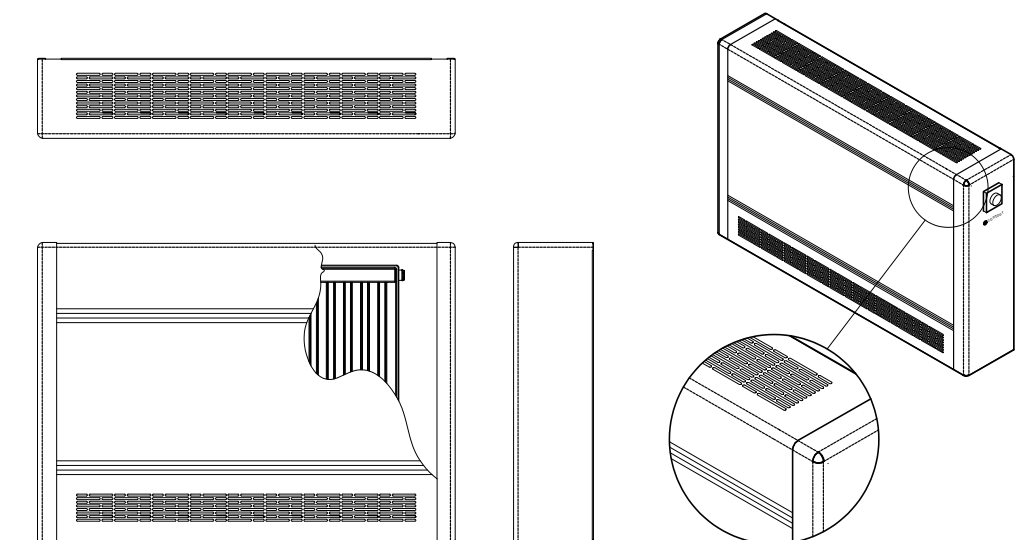
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



| Casing Depth        |                   |                     |
|---------------------|-------------------|---------------------|
| Single Fin<br>100mm | Half Fin<br>120mm | Double Fin<br>150mm |





Covora Lite - Flat Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 100mm               |                     |              | 120mm               |                     |              | 150mm               |                     |              | 215mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 500                | 600                | 192                 | 58                  | CL5006SF     | 292                 | 88                  | CL5006HF     | 375                 | 113                 | CL5006DF     |                     |                     |              |
|                    | 700                | 241                 | 73                  | CL5007SF     | 365                 | 110                 | CL5007HF     | 468                 | 141                 | CL5007DF     | 647                 | 195                 | CL5007TF     |
|                    | 800                | 289                 | 87                  | CL5008SF     | 438                 | 132                 | CL5008HF     | 562                 | 170                 | CL5008DF     | 776                 | 234                 | CL5008TF     |
|                    | 900                | 337                 | 102                 | CL5009SF     | 511                 | 154                 | CL5009HF     | 655                 | 198                 | CL5009DF     | 905                 | 273                 | CL5009TF     |
|                    | 1000               | 385                 | 116                 | CL5010SF     | 584                 | 176                 | CL5010HF     | 749                 | 226                 | CL5010DF     |                     |                     |              |
|                    | 1100               | 433                 | 131                 | CL5011SF     | 657                 | 198                 | CL5011HF     | 843                 | 255                 | CL5011DF     | 1164                | 352                 | CL5011TF     |
|                    | 1200               | 481                 | 145                 | CL5012SF     | 730                 | 220                 | CL5012HF     | 936                 | 283                 | CL5012DF     | 1293                | 391                 | CL5012TF     |
|                    | 1300               | 530                 | 160                 | CL5013SF     | 803                 | 242                 | CL5013HF     | 1027                | 310                 | CL5013DF     | 1422                | 430                 | CL5013TF     |
|                    | 1400               | 578                 | 174                 | CL5014SF     | 876                 | 264                 | CL5014HF     | 1123                | 339                 | CL5014DF     | 1552                | 469                 | CL5014TF     |
|                    | 1500               | 626                 | 189                 | CL5015SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 1600               | 674                 | 203                 | CL5016SF     | 1022                | 309                 | CL5016HF     | 1311                | 396                 | CL5016DF     | 1810                | 547                 | CL5016TF     |
|                    | 1800               | 771                 | 233                 | CL5018SF     | 1168                | 353                 | CL5018HF     | 1498                | 452                 | CL5018DF     | 2069                | 625                 | CL5018TF     |
|                    | 2000               | 867                 | 262                 | CL5020SF     | 1314                | 397                 | CL5020HF     | 1686                | 509                 | CL5020DF     | 2327                | 703                 | CL5020TF     |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 600                | 600                | 248                 | 75                  | CL6006SF     | 372                 | 112                 | CL6006HF     | 480                 | 145                 | CL6006DF     |                     |                     |              |
|                    | 700                | 311                 | 94                  | CL6007SF     | 465                 | 141                 | CL6007HF     | 600                 | 181                 | CL6007DF     | 829                 | 251                 | CL6007TF     |
|                    | 800                | 372                 | 112                 | CL6008SF     | 558                 | 169                 | CL6008HF     | 719                 | 217                 | CL6008DF     | 995                 | 300                 | CL6008TF     |
|                    | 900                | 434                 | 131                 | CL6009SF     | 651                 | 197                 | CL6009HF     | 839                 | 253                 | CL6009DF     | 1161                | 350                 | CL6009TF     |
|                    | 1000               | 497                 | 150                 | CL6010SF     | 744                 | 225                 | CL6010HF     | 959                 | 290                 | CL6010DF     | 1326                | 400                 | CL6010TF     |
|                    | 1100               | 558                 | 169                 | CL6011SF     | 837                 | 253                 | CL6011HF     | 1079                | 326                 | CL6011DF     | 1493                | 451                 | CL6011TF     |
|                    | 1200               | 620                 | 187                 | CL6012SF     | 930                 | 281                 | CL6012HF     | 1199                | 362                 | CL6012DF     | 1658                | 501                 | CL6012TF     |
|                    | 1300               | 683                 | 206                 | CL6013SF     | 1024                | 309                 | CL6013HF     | 1319                | 398                 | CL6013DF     | 1824                | 551                 | CL6013TF     |
|                    | 1400               | 744                 | 225                 | CL6014SF     | 1116                | 337                 | CL6014HF     | 1438                | 434                 | CL6014DF     | 1990                | 601                 | CL6014TF     |
|                    | 1500               | 806                 | 244                 | CL6015SF     | 1210                | 365                 | CL6015HF     | 1558                | 471                 | CL6015DF     |                     |                     |              |
|                    | 1600               | 869                 | 262                 | CL6016SF     | 1302                | 393                 | CL6016HF     | 1679                | 507                 | CL6016DF     |                     |                     |              |
|                    | 1700               | 931                 | 281                 | CL6017SF     | 1396                | 421                 | CL6017HF     | 1799                | 543                 | CL6017DF     |                     |                     |              |
|                    | 1800               | 992                 | 300                 | CL6018SF     | 1488                | 449                 | CL6018HF     | 1918                | 579                 | CL6018DF     | 2653                | 801                 | CL6018TF     |
|                    | 2000               | 1117                | 337                 | CL6020SF     | 1674                | 506                 | CL6020HF     | 2158                | 652                 | CL6020DF     | 2984                | 901                 | CL6020TF     |

Covora Lite - Flat Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11          |                     |              | HF/Type 12          |                     |              | DF/Type 22          |                     |              | TF/Type 33          |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 100mm               |                     |              | 120mm               |                     |              | 150mm               |                     |              | 215mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 700                | 500                | 223                 | 67                  | CL7005SF     |                     |                     |              |                     |                     |              |                     |                     |              |
|                    | 600                | 298                 | 90                  | CL7006SF     | 448                 | 135                 | CL7006HF     | 577                 | 174                 | CL7006DF     |                     |                     |              |
|                    | 700                | 373                 | 113                 | CL7007SF     | 560                 | 169                 | CL7007HF     | 721                 | 218                 | CL7007DF     | 997                 | 301                 | CL7007TF     |
|                    | 800                | 448                 | 135                 | CL7008SF     | 671                 | 203                 | CL7008HF     | 864                 | 261                 | CL7008DF     | 1195                | 361                 | CL7008TF     |
|                    | 900                | 522                 | 158                 | CL7009SF     | 783                 | 237                 | CL7009HF     | 1008                | 305                 | CL7009DF     | 1395                | 421                 | CL7009TF     |
|                    | 1000               | 596                 | 180                 | CL7010SF     | 895                 | 270                 | CL7010HF     | 1153                | 348                 | CL7010DF     | 1594                | m                   | CL7010TF     |
|                    | 1100               | 671                 | 203                 | CL7011SF     | 1007                | 304                 | CL7011HF     | 1297                | 392                 | CL7011DF     | 1793                | 542                 | CL7011TF     |
|                    | 1200               | 746                 | 225                 | CL7012SF     | 1119                | 338                 | CL7012HF     | 1441                | 435                 | CL7012DF     | 1993                | 602                 | CL7012TF     |
|                    | 1300               | 821                 | 248                 | CL7013SF     | 1231                | 372                 | CL7013HF     | 1585                | 479                 | CL7013DF     | 2192                | 662                 | CL7013TF     |
|                    | 1400               | 895                 | 270                 | CL7014SF     | 1342                | 405                 | CL7014HF     | 1729                | 522                 | CL7014DF     | 2391                | 722                 | CL7014TF     |
|                    | 1500               | 969                 | 293                 | CL7015SF     | 1454                | 439                 | CL7015HF     | 1873                | 566                 | CL7015DF     | 2591                | 782                 | CL7015TF     |
|                    | 1600               | 1044                | 315                 | CL7016SF     | 1566                | 473                 | CL7016HF     | 2018                | 609                 | CL7016DF     | 2790                | 843                 | CL7016TF     |
|                    | 1700               | 1119                | 338                 | CL7017SF     | 1679                | 507                 | CL7017HF     | 2162                | 653                 | CL7017DF     |                     |                     |              |
|                    | 1800               | 1193                | 360                 | CL7018SF     | 1790                | 541                 | CL7018HF     | 2305                | 696                 | CL7018DF     |                     |                     |              |
|                    | 2000               | 1342                | 405                 | CL7020SF     | 2014                | 608                 | CL7020HF     | 2593                | 783                 | CL7020DF     | 3587                | 1083                | CL7020TF     |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 800                | 500                | 259                 | 78                  | CL8005SF     | 389                 | 117                 | CL8005HF     | 499                 | 151                 | CL8005DF     |                     |                     |              |
|                    | 600                | 345                 | 104                 | CL8006SF     | 519                 | 157                 | CL8006HF     | 666                 | 201                 | CL8006DF     | 920                 | 278                 | CL8006TF     |
|                    | 700                | 432                 | 130                 | CL8007SF     | 649                 | 196                 | CL8007HF     | 832                 | 251                 | CL8007DF     | 1150                | 347                 | CL8007TF     |
|                    | 800                | 518                 | 156                 | CL8008SF     | 778                 | 235                 | CL8008HF     | 998                 | 301                 | CL8008DF     | 1380                | 417                 | CL8008TF     |
|                    | 900                | 604                 | 183                 | CL8009SF     | 908                 | 274                 | CL8009HF     | 1164                | 352                 | CL8009DF     | 1610                | 486                 | CL8009TF     |
|                    | 1000               | 691                 | 209                 | CL8010SF     | 1038                | 313                 | CL8010HF     | 1331                | 402                 | CL8010DF     | 1840                | 556                 | CL8010TF     |
|                    | 1100               | 777                 | 235                 | CL8011SF     | 1167                | 352                 | CL8011HF     | 1497                | 452                 | CL8011DF     | 2070                | 625                 | CL8011TF     |
|                    | 1200               | 863                 | 261                 | CL8012SF     | 1297                | 392                 | CL8012HF     | 1663                | 502                 | CL8012DF     | 2300                | 695                 | CL8012TF     |
|                    | 1300               | 950                 | 287                 | CL8013SF     | 1427                | 431                 | CL8013HF     | 1830                | 553                 | CL8013DF     | 2529                | 764                 | CL8013TF     |
|                    | 1400               | 1036                | 313                 | CL8014SF     | 1556                | 470                 | CL8014HF     | 1996                | 603                 | CL8014DF     | 2760                | 833                 | CL8014TF     |
|                    | 1500               | 1122                | 339                 | CL8015SF     | 1686                | 509                 | CL8015HF     | 2163                | 653                 | CL8015DF     |                     |                     |              |
|                    | 1600               | 1209                | 365                 | CL8016SF     | 1816                | 548                 | CL8016HF     | 2329                | 703                 | CL8016DF     | 3220                | 972                 | CL8016TF     |
|                    | 1700               | 1295                | 391                 | CL8017SF     | 1946                | 588                 | CL8017HF     | 2496                | 754                 | CL8017DF     |                     |                     |              |
|                    | 1800               | 1381                | 417                 | CL8018SF     | 2075                | 627                 | CL8018HF     | 2661                | 804                 | CL8018DF     | 3679                | 1111                | CL8018TF     |
|                    | 2000               | 1554                | 469                 | CL8020SF     | 2334                | 705                 | CL8020HF     | 2994                | 904                 | CL8020DF     | 4139                | 1250                | CL8020TF     |

# Covora Lite - Flat Top - Standard Grilles



| Radiator Type      |                    | SF/Type 11                                                                        |                     |              | HF/Type 12                                                                        |                     |              | DF/Type 22                                                                         |                     |              | TF/Type 33                                                                          |                     |              |
|--------------------|--------------------|-----------------------------------------------------------------------------------|---------------------|--------------|-----------------------------------------------------------------------------------|---------------------|--------------|------------------------------------------------------------------------------------|---------------------|--------------|-------------------------------------------------------------------------------------|---------------------|--------------|
|                    |                    |  |                     |              |  |                     |              |  |                     |              |  |                     |              |
| Casing Depths      |                    | 100mm                                                                             |                     |              | 120mm                                                                             |                     |              | 150mm                                                                              |                     |              | 215mm                                                                               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50)                                                               | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50)                                                               | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50)                                                                | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50)                                                                 | Output Watts (ΔT20) | Product Code |
| 900                | 600                | 389                                                                               | 117                 | CL9006SF     | 587                                                                               | 177                 | CL9006HF     | 748                                                                                | 226                 | CL9006DF     | 1032                                                                                | 312                 | CL9006TF     |
|                    | 700                | 487                                                                               | 147                 | CL9007SF     | 733                                                                               | 221                 | CL9007HF     | 935                                                                                | 282                 | CL9007DF     | 1291                                                                                | 390                 | CL9007TF     |
|                    | 800                | 584                                                                               | 176                 | CL9008SF     | 879                                                                               | 266                 | CL9008HF     | 1121                                                                               | 339                 | CL9008DF     | 1548                                                                                | 467                 | CL9008TF     |
|                    | 900                | 681                                                                               | 206                 | CL9009SF     | 1026                                                                              | 310                 | CL9009HF     | 1308                                                                               | 395                 | CL9009DF     | 1806                                                                                | 545                 | CL9009TF     |
|                    | 1000               | 778                                                                               | 235                 | CL9010SF     | 1173                                                                              | 354                 | CL9010HF     | 1495                                                                               | 452                 | CL9010DF     | 2064                                                                                | 623                 | CL9010TF     |
|                    | 1100               | 876                                                                               | 264                 | CL9011SF     | 1319                                                                              | 398                 | CL9011HF     | 1682                                                                               | 508                 | CL9011DF     | 2322                                                                                | 701                 | CL9011TF     |
|                    | 1200               | 973                                                                               | 294                 | CL9012SF     | 1466                                                                              | 443                 | CL9012HF     | 1869                                                                               | 564                 | CL9012DF     | 2580                                                                                | 779                 | CL9012TF     |
|                    | 1300               | 1070                                                                              | 323                 | CL9013SF     | 1613                                                                              | 487                 | CL9013HF     | 2056                                                                               | 621                 | CL9013DF     | 2838                                                                                | 857                 | CL9013TF     |
|                    | 1400               | 1168                                                                              | 353                 | CL9014SF     | 1759                                                                              | 531                 | CL9014HF     | 2243                                                                               | 677                 | CL9014DF     | 3096                                                                                | 935                 | CL9014TF     |
|                    | 1500               | 1265                                                                              | 382                 | CL9015SF     | 1905                                                                              | 575                 | CL9015HF     | 2430                                                                               | 734                 | CL9015DF     |                                                                                     |                     |              |
|                    | 1600               | 1362                                                                              | 411                 | CL9016SF     | 2052                                                                              | 620                 | CL9016HF     | 2617                                                                               | 790                 | CL9016DF     | 3613                                                                                | 1091                | CL9016TF     |
|                    | 1700               | 1460                                                                              | 441                 | CL9017SF     |                                                                                   |                     |              | 2804                                                                               | 847                 | CL9017DF     |                                                                                     |                     |              |
|                    | 1800               | 1557                                                                              | 470                 | CL9018SF     | 2345                                                                              | 708                 | CL9018HF     | 2990                                                                               | 903                 | CL9018DF     | 4128                                                                                | 1247                | CL9018TF     |
|                    | 2000               | 1751                                                                              | 529                 | CL9020SF     | 2639                                                                              | 797                 | CL9020HF     | 3364                                                                               | 1016                | CL9020DF     |                                                                                     |                     |              |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*



# Sovereign Radiator Range

**Combining sleek design and functional usability, these convectors-with lamella heat exchangers-have been manufactured with style flexibility in mind.**

The Sovereign range is particularly suitable in spaces occupied by members of the public. In such environments, a robust and safe design is required to ensure longevity of the product and to protect members of the public against sharp edges. Due to its minimal water usage, users benefit from simple controllability and rapid heating, enhancing thermal comfort conditions.

Contour offers a floor standing, wall mounted, free standing and bench option.

## What Makes Sovereign Different?

Sovereign has been manufactured to blend, and in many cases, complement a room's existing décor. With its streamlined, elegant design, this radiator is the ideal heating solution for schools, care homes, sales areas, hotels and residential and sheltered accommodation.

## Small & Stylish Grille Design

Whilst providing a more streamlined appearance, the honeycomb grille design also makes it difficult for items to get lost inside the radiator's interior casing.

This is of particular importance in school classrooms where stationary and other small items regularly get pushed inside radiator grilles.





# Sovereign Radiators

Combining sleek design and functional usability, these convectors-with lamella heat exchangers- have been manufactured for office and sales areas, car showrooms, hotels and other public buildings.

Energy efficient heating due to low water content.

One-piece construction for robust design, providing longevity.

Honeycomb pencil proof grille stops items being passed through.

Safe corners and edges to provide an extra element of safety in the event of a slip, trip or fall.

Sleek and stylish design that blends seamlessly into your building's decor

Multiple choice of colours available so that you can customise to suit your individual styling requirements.

## Sovereign models

Sovereign radiators are available in three models:

- 1. Floor mounted
- 2. Wall mounted
- 3. Free standing
- 4. Bench



## Sovereign colour options

Contour LST radiators are bespoke and made to order, meaning that no two jobs are the same. Working from a RAL chart, Contour are able to provide almost any colour LST radiator,

- All White (see pic 1 to right)  
Cover = RAL 9010 Grille = RAL 9010
- White with Black (see pic 3 to right)  
Cover = RAL 9016 Grille = Speckled Black
- Dark Blue with Grey (see main pic to left)  
Cover = RAL 5008 Grille = Grey

\*Other options available on request



# Sovereign

## Floor Mounted

Summary:

Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Honeycomb Punched grille top and bottom

Emitter:

- Lamella heat exchanger

Valve options available:

- Direct fit External TRV kit
- Direct fit External TRV kit with remote sensor

Finish:

Polyester powder coated in 3 standard designs;

- Option A  
Front face = RAL 9016-White  
Top and sides = RAL 9016 White
- Option B  
Front face = RAL 9016-White  
Top and sides = RAL Dark Slate Grey Textured finish
- Option C  
Front face = RAL 5008 Grey Blue  
Top and sides = RAL 7035 Light Grey
- Bespoke colour choices available

Technical Information & Specifications

Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Lamella heat exchanger (1F, 2F, 3F and 4F as specified) and a Reverse angle Herz ½” external direct fit valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- Colour of casing to be specified at time of order.

\*Additional carriage charges will apply for multiple phases

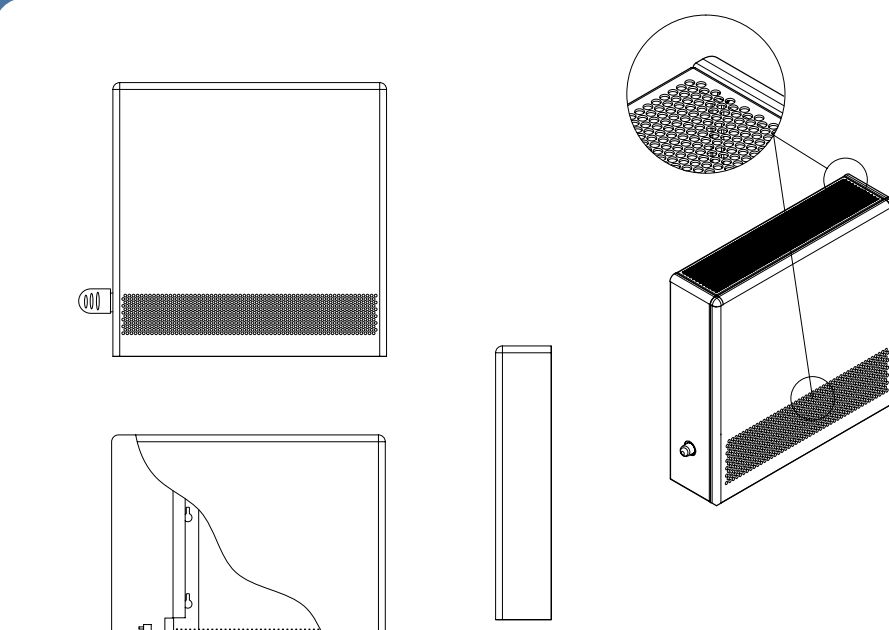
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



| Casing Depth    |                  |                  |                  |
|-----------------|------------------|------------------|------------------|
| Type 1F<br>82mm | Type 2F<br>122mm | Type 3F<br>182mm | Type 4F<br>242mm |



Sovereign - Floor Mounted



| Radiator Type      |                    | Type 1F             |                     |              | Type 2F             |                     |              | Type 3F             |                     |              | Type 4F             |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 82mm                |                     |              | 122mm               |                     |              | 182mm               |                     |              | 242mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 265                | 400                |                     |                     |              | 109                 | 33                  | SOV26042F    | 185                 | 56                  | SOV26043F    | 272                 | 82                  | SOV26044F    |
|                    | 500                |                     |                     |              | 163                 | 49                  | SOV26052F    | 277                 | 84                  | SOV26053F    | 408                 | 123                 | SOV26054F    |
|                    | 600                |                     |                     |              | 218                 | 66                  | SOV26062F    | 369                 | 111                 | SOV26063F    | 544                 | 164                 | SOV26064F    |
|                    | 700                |                     |                     |              | 273                 | 82                  | SOV26072F    | 462                 | 140                 | SOV26073F    | 679                 | 205                 | SOV26074F    |
|                    | 800                |                     |                     |              | 328                 | 99                  | SOV26082F    | 554                 | 167                 | SOV26083F    | 814                 | 246                 | SOV26084F    |
|                    | 900                |                     |                     |              | 382                 | 115                 | SOV26092F    | 647                 | 195                 | SOV6093F     | 950                 | 287                 | SOV26094F    |
|                    | 1000               |                     |                     |              | 436                 | 132                 | SOV26102F    | 739                 | 223                 | SOV26103F    | 1086                | 328                 | SOV26104F    |
|                    | 1100               |                     |                     |              | 491                 | 148                 | SOV26112F    | 831                 | 251                 | SOV26113F    | 1222                | 369                 | SOV26114F    |
|                    | 1200               |                     |                     |              | 545                 | 165                 | SOV26122F    | 924                 | 279                 | SOV26123F    | 1358                | 410                 | SOV26124F    |
|                    | 1400               |                     |                     |              | 654                 | 198                 | SOV26142F    | 1108                | 335                 | SOV26143F    | 1630                | 492                 | SOV26144F    |
|                    | 1600               |                     |                     |              | 764                 | 231                 | SOV26162F    | 1293                | 390                 | SOV26163F    | 1901                | 574                 | SOV26164F    |
|                    | 1800               |                     |                     |              | 873                 | 264                 | SOV26182F    | 1477                | 446                 | SOV26183F    | 2172                | 656                 | SOV26184F    |
|                    | 2000               |                     |                     |              | 981                 | 296                 | SOV26202F    | 1662                | 502                 | SOV26203F    | 2444                | 738                 | SOV26204F    |
|                    | 2200               |                     |                     |              | 1090                | 329                 | SOV26222F    | 1846                | 557                 | SOV26223F    | 2716                | 820                 | SOV26224F    |
|                    | 2400               |                     |                     |              | 1200                | 362                 | SOV26242F    | 2031                | 613                 | SOV26243F    | 2988                | 902                 | SOV26244F    |
|                    | 2600               |                     |                     |              | 1309                | 395                 | SOV26262F    | 2216                | 669                 | SOV26263F    | 3259                | 984                 | SOV26264F    |
|                    | 2800               |                     |                     |              | 1418                | 428                 | SOV26282F    | 2400                | 725                 | SOV26283F    | 3530                | 1066                | SOV26284F    |
| 300                | 400                | 75                  | 23                  | SOV30041F    | 118                 | 36                  | SOV30042F    | 200                 | 60                  | SO320043F    | 286                 | 86                  | SOV30044F    |
|                    | 500                | 112                 | 34                  | SOV30051F    | 177                 | 53                  | SOV30052F    | 299                 | 90                  | SOV30053F    | 429                 | 130                 | SOV30054F    |
|                    | 600                | 150                 | 45                  | SOV30061F    | 236                 | 71                  | SOV30062F    | 399                 | 120                 | SOV30063F    | 572                 | 173                 | SOV30064F    |
|                    | 700                | 187                 | 56                  | SOV30071F    | 295                 | 89                  | SOV30072F    | 499                 | 151                 | SOV30073F    | 715                 | 216                 | SOV30074F    |
|                    | 800                | 224                 | 68                  | SOV30081F    | 353                 | 107                 | SOV30082F    | 598                 | 181                 | SOV30083F    | 858                 | 259                 | SOV30084F    |
|                    | 900                | 261                 | 79                  | SOV30091F    | 413                 | 125                 | SOV30092F    | 697                 | 210                 | SOV30093F    | 1001                | 302                 | SOV30094F    |
|                    | 1000               | 299                 | 90                  | SOV30101F    | 471                 | 142                 | SOV30102F    | 797                 | 241                 | SOV30103F    | 1144                | 345                 | SOV30104F    |
|                    | 1100               | 336                 | 101                 | SOV30111F    | 531                 | 160                 | SOV30112F    | 897                 | 271                 | SOV30113F    | 1287                | 389                 | SOV30114F    |
|                    | 1200               | 373                 | 113                 | SOV30121F    | 590                 | 178                 | SOV30122F    | 997                 | 301                 | SOV30123F    | 1430                | 432                 | SOV30124F    |
|                    | 1400               | 448                 | 135                 | SOV30141F    | 708                 | 214                 | SOV30142F    | 1196                | 361                 | SOV30143F    | 1716                | 518                 | SOV30144F    |
|                    | 1600               | 523                 | 158                 | SOV30161F    | 826                 | 249                 | SOV30162F    | 1396                | 422                 | SOV30163F    | 2002                | 605                 | SOV30164F    |
|                    | 1800               | 598                 | 181                 | SOV30181F    | 943                 | 285                 | SOV30182F    | 1594                | 481                 | SOV30183F    | 2288                | 691                 | SOV30184F    |
|                    | 2000               | 673                 | 203                 | SOV30201F    | 1061                | 320                 | SOV30202F    | 1794                | 542                 | SOV30203F    | 2573                | 777                 | SOV30204F    |
|                    | 2200               | 747                 | 226                 | SOV30221F    | 1179                | 356                 | SOV30222F    | 1993                | 602                 | SOV30223F    | 2860                | 864                 | SOV30224F    |
|                    | 2400               | 822                 | 248                 | SOV30241F    | 1297                | 392                 | SOV30242F    | 2193                | 662                 | SOV30243F    | 3145                | 950                 | SOV30244F    |
|                    | 2600               | 897                 | 271                 | SOV30261F    | 1415                | 427                 | SOV30262F    | 2393                | 723                 | SOV30263F    | 3431                | 1036                | SOV30264F    |
|                    | 2800               | 971                 | 293                 | SOV30281F    | 1533                | 463                 | SOV30282F    | 2591                | 782                 | SOV30283F    | 3717                | 1123                | SOV30284F    |

Sovereign - Floor Mounted



| Radiator Type      |                    | Type 1F             |                     |              | Type 2F             |                     |              | Type 3F             |                     |              | Type 4F             |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 82mm                |                     |              | 122mm               |                     |              | 182mm               |                     |              | 242mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 400                | 400                | 90                  | 27                  | SOV40041F    | 140                 | 42                  | SOV40042F    | 237                 | 72                  | SOV40043F    | 330                 | 100                 | SOV40044F    |
|                    | 500                | 136                 | 41                  | SOV40051F    | 210                 | 63                  | SOV40052F    | 357                 | 108                 | SOV40053F    | 496                 | 150                 | SOV40054F    |
|                    | 600                | 181                 | 55                  | SOV40061F    | 280                 | 85                  | SOV40062F    | 476                 | 144                 | SOV40063F    | 661                 | 200                 | SOV40064F    |
|                    | 700                | 225                 | 68                  | SOV40071F    | 350                 | 106                 | SOV40072F    | 594                 | 179                 | SOV40073F    | 826                 | 249                 | SOV40074F    |
|                    | 800                | 271                 | 82                  | SOV40081F    | 421                 | 127                 | SOV40082F    | 713                 | 215                 | SOV40083F    | 992                 | 300                 | SOV40084F    |
|                    | 900                | 316                 | 95                  | SOV40091F    | 490                 | 148                 | SOV40092F    | 832                 | 251                 | SOV40093F    | 1158                | 350                 | SOV40094F    |
|                    | 1000               | 361                 | 109                 | SOV40101F    | 561                 | 169                 | SOV40102F    | 950                 | 287                 | SOV40103F    | 1323                | 400                 | SOV40104F    |
|                    | 1100               | 406                 | 123                 | SOV40111F    | 630                 | 190                 | SOV40112F    | 1070                | 323                 | SOV40113F    | 1488                | 449                 | SOV40114F    |
|                    | 1200               | 452                 | 137                 | SOV40121F    | 701                 | 212                 | SOV40122F    | 1189                | 359                 | SOV40123F    | 1653                | 499                 | SOV40124F    |
|                    | 1400               | 542                 | 164                 | SOV40141F    | 840                 | 254                 | SOV40142F    | 1426                | 431                 | SOV40143F    | 1984                | 599                 | SOV40144F    |
|                    | 1600               | 632                 | 191                 | SOV40161F    | 980                 | 296                 | SOV40162F    | 1664                | 503                 | SOV40163F    | 2314                | 699                 | SOV40164F    |
|                    | 1800               | 722                 | 218                 | SOV40181F    | 1121                | 339                 | SOV40182F    | 1901                | 574                 | SOV40183F    | 2645                | 799                 | SOV40184F    |
|                    | 2000               | 813                 | 246                 | SOV40201F    | 1261                | 381                 | SOV40202F    | 2139                | 646                 | SOV40203F    | 2976                | 899                 | SOV40204F    |
|                    | 2200               | 903                 | 273                 | SOV40221F    | 1401                | 423                 | SOV40222F    | 2377                | 718                 | SOV40223F    | 3306                | 998                 | SOV40224F    |
|                    | 2400               | 993                 | 300                 | SOV40241F    | 1541                | 465                 | SOV40242F    | 2614                | 789                 | SOV40243F    | 3637                | 1098                | SOV40244F    |
|                    | 2600               | 1084                | 327                 | SOV40261F    | 1681                | 508                 | SOV40262F    | 2852                | 861                 | SOV40263F    | 3967                | 1198                | SOV40264F    |
|                    | 2800               | 1174                | 355                 | SOV40281F    | 1821                | 550                 | SOV40282F    | 3090                | 933                 | SOV40283F    | 4297                | 1298                | SOV40284F    |
| 500                | 400                | 108                 | 33                  | SOV50041F    | 160                 | 48                  | SOV50042F    | 273                 | 82                  | SOV50043F    | 382                 | 115                 | SOV50044F    |
|                    | 500                | 162                 | 49                  | SOV50051F    | 240                 | 72                  | SOV50052F    | 410                 | 124                 | SOV50053F    | 573                 | 173                 | SOV50054F    |
|                    | 600                | 216                 | 65                  | SOV50061F    | 320                 | 97                  | SOV50062F    | 547                 | 165                 | SOV50063F    | 763                 | 230                 | SOV50064F    |
|                    | 700                | 269                 | 81                  | SOV50071F    | 400                 | 121                 | SOV50072F    | 684                 | 207                 | SOV50073F    | 954                 | 288                 | SOV50074F    |
|                    | 800                | 323                 | 98                  | SOV50081F    | 480                 | 145                 | SOV50082F    | 820                 | 248                 | SOV50083F    | 1145                | 346                 | SOV50084F    |
|                    | 900                | 378                 | 114                 | SOV50091F    | 559                 | 169                 | SOV50092F    | 957                 | 289                 | SOV50093F    | 1336                | 403                 | SOV50094F    |
|                    | 1000               | 431                 | 130                 | SOV50101F    | 639                 | 193                 | SOV50102F    | 1094                | 330                 | SOV50103F    | 1527                | 461                 | SOV50104F    |
|                    | 1100               | 485                 | 146                 | SOV50111F    | 719                 | 217                 | SOV50112F    | 1232                | 372                 | SOV50113F    | 1717                | 519                 | SOV50114F    |
|                    | 1200               | 539                 | 163                 | SOV50121F    | 799                 | 241                 | SOV50122F    | 1368                | 413                 | SOV50123F    | 1907                | 576                 | SOV50124F    |
|                    | 1400               | 647                 | 195                 | SOV50141F    | 959                 | 290                 | SOV50142F    | 1642                | 496                 | SOV50143F    | 2289                | 691                 | SOV50144F    |
|                    | 1600               | 754                 | 228                 | SOV50161F    | 1119                | 338                 | SOV50162F    | 1915                | 578                 | SOV50163F    | 2671                | 807                 | SOV50164F    |
|                    | 1800               | 863                 | 261                 | SOV50181F    | 1279                | 386                 | SOV50182F    | 2189                | 661                 | SOV50183F    | 3053                | 922                 | SOV50184F    |
|                    | 2000               | 970                 | 293                 | SOV50201F    | 1438                | 434                 | SOV50202F    | 2462                | 744                 | SOV50203F    | 3434                | 1037                | SOV50204F    |
|                    | 2200               | 1078                | 326                 | SOV50221F    | 1598                | 483                 | SOV50222F    | 2736                | 826                 | SOV50223F    | 3816                | 1152                | SOV50224F    |
|                    | 2400               | 1186                | 358                 | SOV50241F    | 1758                | 531                 | SOV50242F    | 3009                | 909                 | SOV50243F    | 4198                | 1268                | SOV50244F    |
|                    | 2600               | 1293                | 390                 | SOV50261F    | 1918                | 579                 | SOV50262F    | 3283                | 991                 | SOV50263F    | 4579                | 1383                | SOV50264F    |
|                    | 2800               | 1401                | 423                 | SOV50281F    | 2078                | 628                 | SOV50282F    | 3556                | 1074                | SOV50283F    | 4960                | 1498                | SOV50284F    |



# Sovereign - Floor Mounted



| Radiator Type      |                    | Type 1F             |                     |              | Type 2F             |                     |              | Type 3F             |                     |              | Type 4F             |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 82mm                |                     |              | 122mm               |                     |              | 182mm               |                     |              | 242mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 600                | 400                | 120                 | 36                  | SOV60041F    | 178                 | 54                  | SOV60042F    | 309                 | 93                  | SOV60043F    | 440                 | 133                 | SOV60044F    |
|                    | 500                | 179                 | 54                  | SOV60051F    | 267                 | 81                  | SOV60052F    | 464                 | 140                 | SOV60053F    | 660                 | 199                 | SOV60054F    |
|                    | 600                | 238                 | 72                  | SOV60061F    | 357                 | 108                 | SOV60062F    | 617                 | 186                 | SOV60063F    | 880                 | 266                 | SOV60064F    |
|                    | 700                | 298                 | 90                  | SOV60071F    | 445                 | 134                 | SOV60072F    | 772                 | 233                 | SOV60073F    | 1100                | 332                 | SOV60074F    |
|                    | 800                | 357                 | 108                 | SO650081F    | 535                 | 162                 | SOV60082F    | 927                 | 280                 | SOV60083F    | 1320                | 399                 | SOV60084F    |
|                    | 900                | 417                 | 126                 | SOV60091F    | 624                 | 188                 | SOV60092F    | 1081                | 326                 | SOV60093F    | 1540                | 465                 | SOV60094F    |
|                    | 1000               | 476                 | 144                 | SOV60101F    | 713                 | 215                 | SOV60102F    | 1236                | 373                 | SOV60103F    | 1760                | 532                 | SOV60104F    |
|                    | 1100               | 536                 | 162                 | SOV60111F    | 802                 | 242                 | SOV60112F    | 1390                | 420                 | SOV60113F    | 1980                | 598                 | SOV60114F    |
|                    | 1200               | 595                 | 180                 | SOV60121F    | 891                 | 269                 | SOV60122F    | 1545                | 467                 | SOV60123F    | 2200                | 664                 | SOV60124F    |
|                    | 1400               | 715                 | 216                 | SOV60141F    | 1070                | 323                 | SOV60142F    | 1853                | 560                 | SOV60143F    | 2620                | 791                 | SOV60144F    |
|                    | 1600               | 833                 | 252                 | SOV60161F    | 1248                | 377                 | SOV60162F    | 2162                | 653                 | SOV60163F    | 3080                | 930                 | SOV60164F    |
|                    | 1800               | 953                 | 288                 | SOV60181F    | 1426                | 431                 | SOV60182F    | 2472                | 747                 | SOV60183F    | 3520                | 1063                | SOV60184F    |
|                    | 2000               | 1072                | 324                 | SOV60201F    | 1605                | 485                 | SOV60202F    | 2780                | 840                 | SOV60203F    | 3960                | 1196                | SOV60204F    |
|                    | 2200               | 1191                | 360                 | SOV60221F    | 1783                | 538                 | SOV60222F    | 3089                | 933                 | SOV60223F    | 4400                | 1329                | SOV60224F    |
|                    | 2400               | 1310                | 396                 | SOV60241F    | 1961                | 592                 | SOV60242F    | 3398                | 1026                | SOV60243F    | 4840                | 1462                | SOV60244F    |
|                    | 2600               | 1429                | 432                 | SOV60261F    | 2139                | 646                 | SOV60262F    | 3707                | 1120                | SOV60263F    | 5280                | 1595                | SOV60264F    |
|                    | 2800               | 1548                | 467                 | SOV60281F    | 2318                | 700                 | SOV60282F    | 4015                | 1213                | SOV60283F    | 5720                | 1727                | SOV60284F    |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

# Sovereign

## Wall Mounted

Summary:

Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Honeycomb Punched grille top and bottom

Emitter:

- Lamella heat exchanger

Valve options available:

- Direct fit External TRV kit
- Direct fit External TRV kit with remote sensor

Finish:

Polyester powder coated in 3 standard designs;

- Option A  
Front face = RAL 9016-White  
Top and sides = RAL 9016 White
- Option B  
Front face = RAL 9016-White  
Top and sides = RAL Dark Slate Grey Textured finish
- Option C  
Front face = RAL 5008 Grey Blue  
Top and sides = RAL 7035 Light Grey
- Bespoke colour choices available

### Technical Information & Specifications

Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Lamella heat exchanger (1W, 2W, 3W and 4W as specified) and a Reverse angle Herz ½" external direct fit valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- Colour of casing to be specified at time of order.

\*Additional carriage charges will apply for multiple phases

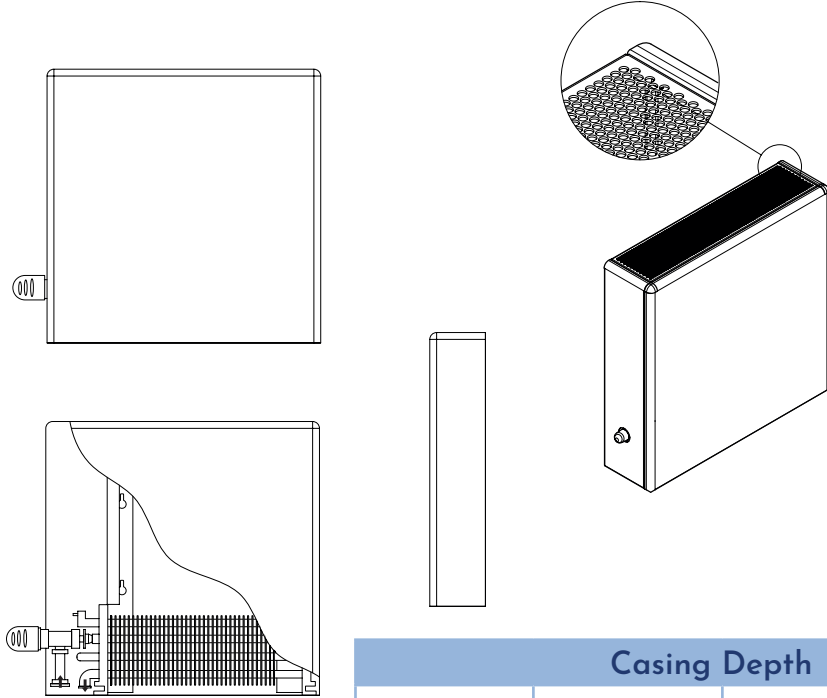
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



| Casing Depth    |                  |                  |                  |
|-----------------|------------------|------------------|------------------|
| Type 1W<br>82mm | Type 2W<br>122mm | Type 3W<br>182mm | Type 4W<br>242mm |





Sovereign - Wall Mounted



| Radiator Type      |                    | Type 1W             |                     |              | Type 2W             |                     |              | Type 3W             |                     |              | Type 4W             |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 82mm                |                     |              | 122mm               |                     |              | 182mm               |                     |              | 242mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 165                | 400                |                     |                     |              | 127                 | 38                  | SOV16042W    | 215                 | 65                  | SOV16043W    | 316                 | 95                  | SOV16044W    |
|                    | 500                |                     |                     |              | 190                 | 57                  | SOV16052W    | 322                 | 97                  | SOV16053W    | 474                 | 143                 | SOV16054W    |
|                    | 600                |                     |                     |              | 254                 | 77                  | SOV16062W    | 429                 | 130                 | SOV16063W    | 632                 | 191                 | SOV16064W    |
|                    | 700                |                     |                     |              | 317                 | 96                  | SOV16072W    | 537                 | 162                 | SOV16073W    | 790                 | 239                 | SOV16074W    |
|                    | 800                |                     |                     |              | 381                 | 115                 | SOV16082W    | 644                 | 194                 | SOV16083W    | 947                 | 286                 | SOV16084W    |
|                    | 900                |                     |                     |              | 444                 | 134                 | SOV16092W    | 752                 | 227                 | SOV16093W    | 1105                | 334                 | SOV16094W    |
|                    | 1000               |                     |                     |              | 507                 | 153                 | SOV16102W    | 859                 | 259                 | SOV16103W    | 1263                | 381                 | SOV16104W    |
|                    | 1100               |                     |                     |              | 571                 | 172                 | SOV16112W    | 966                 | 292                 | SOV16113W    | 1421                | 429                 | SOV16114W    |
|                    | 1200               |                     |                     |              | 634                 | 191                 | SOV16122W    | 1074                | 324                 | SOV16123W    | 1579                | 477                 | SOV16124W    |
|                    | 1400               |                     |                     |              | 761                 | 230                 | SOV16142W    | 1288                | 389                 | SOV16143W    | 1895                | 572                 | SOV16144W    |
|                    | 1600               |                     |                     |              | 888                 | 268                 | SOV16162W    | 1503                | 454                 | SOV16163W    | 2211                | 668                 | SOV16164W    |
|                    | 1800               |                     |                     |              | 1015                | 307                 | SOV16182W    | 1718                | 519                 | SOV16183W    | 2526                | 763                 | SOV16184W    |
|                    | 2000               |                     |                     |              | 1141                | 345                 | SOV16202W    | 1932                | 583                 | SOV16203W    | 2842                | 858                 | SOV16204W    |
|                    | 2200               |                     |                     |              | 1268                | 383                 | SOV16222W    | 2147                | 648                 | SOV16223W    | 3158                | 954                 | SOV16224W    |
|                    | 2400               |                     |                     |              | 1395                | 421                 | SOV16242W    | 2362                | 713                 | SOV16243W    | 3474                | 1049                | SOV16244W    |
|                    | 2600               |                     |                     |              | 1522                | 460                 | SOV16262W    | 2577                | 778                 | SOV16263W    | 3790                | 1145                | SOV16264W    |
|                    | 2800               |                     |                     |              | 1649                | 498                 | SOV16282W    | 2791                | 843                 | SOV16283W    | 4105                | 1240                | SOV16284W    |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 200                | 400                | 87                  | 26                  | SOV20041W    | 137                 | 41                  | SOV20042W    | 232                 | 70                  | SOV20043W    | 333                 | 101                 | SOV20044W    |
|                    | 500                | 130                 | 39                  | SOV20051W    | 206                 | 62                  | SOV20052W    | 348                 | 105                 | SOV20053W    | 499                 | 151                 | SOV20054W    |
|                    | 600                | 174                 | 53                  | SOV20061W    | 274                 | 83                  | SOV20062W    | 464                 | 140                 | SOV20063W    | 665                 | 201                 | SOV20064W    |
|                    | 700                | 217                 | 66                  | SOV20071W    | 343                 | 104                 | SOV20072W    | 580                 | 175                 | SOV20073W    | 831                 | 251                 | SOV20074W    |
|                    | 800                | 261                 | 79                  | SOV20081W    | 411                 | 124                 | SOV20082W    | 695                 | 210                 | SOV20083W    | 98                  | 30                  | SOV20084W    |
|                    | 900                | 304                 | 92                  | SOV20091W    | 480                 | 145                 | SOV20092W    | 811                 | 245                 | SOV20093W    | 1164                | 352                 | SOV20094W    |
|                    | 1000               | 348                 | 105                 | SOV20101W    | 548                 | 165                 | SOV20102W    | 927                 | 280                 | SOV20103W    | 1330                | 402                 | SOV20104W    |
|                    | 1100               | 391                 | 118                 | SOV20111W    | 617                 | 186                 | SOV20112W    | 1043                | 315                 | SOV20113W    | 1496                | 452                 | SOV20114W    |
|                    | 1200               | 434                 | 131                 | SOV20121W    | 686                 | 207                 | SOV20122W    | 1159                | 350                 | SOV20123W    | 1663                | 502                 | SOV20124W    |
|                    | 1400               | 521                 | 157                 | SOV20141W    | 823                 | 249                 | SOV20142W    | 1391                | 420                 | SOV20143W    | 1995                | 602                 | SOV20144W    |
|                    | 1600               | 608                 | 184                 | SOV20161W    | 960                 | 290                 | SOV20162W    | 1623                | 490                 | SOV20163W    | 2328                | 703                 | SOV20164W    |
|                    | 1800               | 695                 | 210                 | SOV20181W    | 1097                | 331                 | SOV20182W    | 1854                | 560                 | SOV20183W    | 2660                | 803                 | SOV20184W    |
|                    | 2000               | 782                 | 236                 | SOV20201W    | 1234                | 373                 | SOV20202W    | 2086                | 630                 | SOV20203W    | 2992                | 904                 | SOV20204W    |
|                    | 2200               | 869                 | 262                 | SOV20221W    | 1371                | 414                 | SOV20222W    | 2318                | 700                 | SOV20223W    | 3325                | 1004                | SOV20224W    |
|                    | 2400               | 956                 | 289                 | SOV20241W    | 1508                | 455                 | SOV20242W    | 2550                | 770                 | SOV20243W    | 3657                | 1104                | SOV20244W    |
|                    | 2600               | 1043                | 315                 | SOV20261W    | 1645                | 497                 | SOV20262W    | 2782                | 840                 | SOV20263W    | 3990                | 1205                | SOV20264W    |
|                    | 2800               | 1129                | 341                 | SOV20281W    | 1782                | 538                 | SOV20282W    | 3013                | 910                 | SOV20283W    | 4322                | 1305                | SOV20284W    |

Sovereign - Wall Mounted



| Radiator Type      |                    | Type 1W             |                     |              | Type 2W             |                     |              | Type 3W             |                     |              | Type 4W             |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 82mm                |                     |              | 122mm               |                     |              | 182mm               |                     |              | 242mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 300                | 400                | 105                 | 32                  | SOV30041W    | 163                 | 49                  | SOV30042W    | 276                 | 83                  | SOV30043W    | 384                 | 116                 | SOV30044W    |
|                    | 500                | 158                 | 48                  | SOV30051W    | 244                 | 74                  | SOV30052W    | 415                 | 125                 | SOV30053W    | 577                 | 174                 | SOV30054W    |
|                    | 600                | 210                 | 63                  | SOV30061W    | 326                 | 98                  | SOV30062W    | 553                 | 167                 | SOV30063W    | 769                 | 232                 | SOV30064W    |
|                    | 700                | 262                 | 79                  | SOV30071W    | 407                 | 123                 | SOV30072W    | 691                 | 209                 | SOV30073W    | 961                 | 290                 | SOV30074W    |
|                    | 800                | 315                 | 95                  | SOV30081W    | 489                 | 148                 | SOV30082W    | 829                 | 250                 | SOV30083W    | 1153                | 348                 | SOV30084W    |
|                    | 900                | 367                 | 111                 | SOV30091W    | 570                 | 172                 | SOV30092W    | 967                 | 292                 | SOV30093W    | 1346                | 406                 | SOV30094W    |
|                    | 1000               | 420                 | 127                 | SOV30101W    | 652                 | 197                 | SOV30102W    | 1105                | 334                 | SOV30103W    | 1538                | 464                 | SOV30104W    |
|                    | 1100               | 472                 | 143                 | SOV30111W    | 733                 | 221                 | SOV30112W    | 1244                | 376                 | SOV30113W    | 1730                | 522                 | SOV30114W    |
|                    | 1200               | 525                 | 159                 | SOV30121W    | 815                 | 246                 | SOV30122W    | 1382                | 417                 | SOV30123W    | 1922                | 580                 | SOV30124W    |
|                    | 1400               | 630                 | 190                 | SOV30141W    | 977                 | 295                 | SOV30142W    | 1658                | 501                 | SOV30143W    | 2307                | 697                 | SOV30144W    |
|                    | 1600               | 735                 | 222                 | SOV30161W    | 1140                | 344                 | SOV30162W    | 1935                | 584                 | SOV30163W    | 2691                | 813                 | SOV30164W    |
|                    | 1800               | 840                 | 254                 | SOV30181W    | 1303                | 394                 | SOV30182W    | 2211                | 668                 | SOV30183W    | 3075                | 929                 | SOV30184W    |
|                    | 2000               | 945                 | 285                 | SOV30201W    | 1466                | 443                 | SOV30202W    | 2487                | 751                 | SOV30203W    | 3460                | 1045                | SOV30204W    |
|                    | 2200               | 1050                | 317                 | SOV30221W    | 1629                | 492                 | SOV30222W    | 2764                | 835                 | SOV30223W    | 3844                | 1161                | SOV30224W    |
|                    | 2400               | 1155                | 349                 | SOV30241W    | 1792                | 541                 | SOV30242W    | 3040                | 918                 | SOV30243W    | 4229                | 1277                | SOV30244W    |
|                    | 2600               | 1260                | 381                 | SOV30261W    | 1955                | 590                 | SOV30262W    | 3316                | 1001                | SOV30263W    | 4613                | 1393                | SOV30264W    |
|                    | 2800               | 1365                | 412                 | SOV30281W    | 2118                | 640                 | SOV30282W    | 3593                | 1085                | SOV30283W    | 4997                | 1509                | SOV30284W    |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 400                | 400                | 125                 | 38                  | SOV40041W    | 186                 | 56                  | SOV40042W    | 318                 | 96                  | SOV40043W    | 444                 | 134                 | SOV40044W    |
|                    | 500                | 188                 | 57                  | SOV40051W    | 279                 | 84                  | SOV40052W    | 477                 | 144                 | SOV40053W    | 666                 | 201                 | SOV40054W    |
|                    | 600                | 251                 | 76                  | SOV40061W    | 372                 | 112                 | SOV40062W    | 636                 | 192                 | SOV40063W    | 887                 | 268                 | SOV40064W    |
|                    | 700                | 313                 | 95                  | SOV40071W    | 465                 | 140                 | SOV40072W    | 795                 | 240                 | SOV40073W    | 1109                | 335                 | SOV40074W    |
|                    | 800                | 376                 | 114                 | SOV40081W    | 558                 | 169                 | SOV40082W    | 954                 | 288                 | SOV40083W    | 1331                | 402                 | SOV40084W    |
|                    | 900                | 439                 | 133                 | SOV40091W    | 650                 | 196                 | SOV40092W    | 1113                | 336                 | SOV40093W    | 1553                | 469                 | SOV40094W    |
|                    | 1000               | 501                 | 151                 | SOV40101W    | 743                 | 224                 | SOV40102W    | 1272                | 384                 | SOV40103W    | 1775                | 536                 | SOV40104W    |
|                    | 1100               | 564                 | 170                 | SOV40111W    | 836                 | 252                 | SOV40112W    | 1432                | 432                 | SOV40113W    | 1997                | 603                 | SOV40114W    |
|                    | 1200               | 627                 | 189                 | SOV40121W    | 929                 | 281                 | SOV40122W    | 1591                | 480                 | SOV40123W    | 2218                | 670                 | SOV40124W    |
|                    | 1400               | 752                 | 227                 | SOV40141W    | 1115                | 337                 | SOV40142W    | 1909                | 577                 | SOV40143W    | 2662                | 804                 | SOV40144W    |
|                    | 1600               | 877                 | 265                 | SOV40161W    | 1301                | 393                 | SOV40162W    | 2227                | 673                 | SOV40163W    | 3106                | 938                 | SOV40164W    |
|                    | 1800               | 1003                | 303                 | SOV40181W    | 1487                | 449                 | SOV40182W    | 2545                | 769                 | SOV40183W    | 3550                | 1072                | SOV40184W    |
|                    | 2000               | 1128                | 341                 | SOV40201W    | 1672                | 505                 | SOV40202W    | 2863                | 865                 | SOV40203W    | 3993                | 1206                | SOV40204W    |
|                    | 2200               | 1253                | 378                 | SOV40221W    | 1858                | 561                 | SOV40222W    | 3181                | 961                 | SOV40223W    | 4437                | 1340                | SOV40224W    |
|                    | 2400               | 1379                | 416                 | SOV40241W    | 2044                | 617                 | SOV40242W    | 3499                | 1057                | SOV40243W    | 4881                | 1474                | SOV40244W    |
|                    | 2600               | 1504                | 454                 | SOV40261W    | 2230                | 673                 | SOV40262W    | 3817                | 1153                | SOV40263W    | 524                 | 158                 | SOV40264W    |
|                    | 2800               | 1629                | 492                 | SOV40281W    | 2416                | 730                 | SOV40282W    | 4135                | 1249                | SOV40283W    | 5768                | 1742                | SOV40284W    |

# Sovereign - Wall Mounted



Radiator Type

Type 1W

Type 2W

Type 3W

Type 4W

Casing Depths

82mm

122mm

182mm

242mm

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 500                | 400                | 139                 | 42                  | SOV50041W    | 207                 | 63                  | SOV50042W    | 359                 | 108                 | SOV50043W    | 512                 | 155                 | SOV50044W    |
|                    | 500                | 208                 | 63                  | SOV50051W    | 311                 | 94                  | SOV50052W    | 539                 | 163                 | SOV50053W    | 767                 | 232                 | SOV50054W    |
|                    | 600                | 277                 | 84                  | SOV50061W    | 415                 | 125                 | SOV50062W    | 718                 | 217                 | SOV50063W    | 1023                | 309                 | SOV50064W    |
|                    | 700                | 346                 | 104                 | SOV50071W    | 518                 | 156                 | SOV50072W    | 898                 | 271                 | SOV50073W    | 1279                | 386                 | SOV50074W    |
|                    | 800                | 415                 | 125                 | SOV50081W    | 622                 | 188                 | SOV50082W    | 1078                | 326                 | SOV50083W    | 1535                | 464                 | SOV50084W    |
|                    | 900                | 485                 | 146                 | SOV50091W    | 726                 | 219                 | SOV50092W    | 1257                | 380                 | SOV50093W    | 1791                | 541                 | SOV50094W    |
|                    | 1000               | 554                 | 167                 | SOV50101W    | 829                 | 250                 | SOV50102W    | 1437                | 434                 | SOV50103W    | 2047                | 618                 | SOV50104W    |
|                    | 1100               | 623                 | 188                 | SOV50111W    | 933                 | 282                 | SOV50112W    | 1616                | 488                 | SOV50113W    | 2302                | 695                 | SOV50114W    |
|                    | 1200               | 692                 | 209                 | SOV50121W    | 1036                | 313                 | SOV50122W    | 1796                | 542                 | SOV50123W    | 2558                | 773                 | SOV50124W    |
|                    | 1400               | 831                 | 251                 | SOV50141W    | 1244                | 376                 | SOV50142W    | 2155                | 651                 | SOV50143W    | 3070                | 927                 | SOV50144W    |
|                    | 1600               | 969                 | 293                 | SOV50161W    | 1451                | 438                 | SOV50162W    | 2514                | 759                 | SOV50163W    | 3581                | 1081                | SOV50164W    |
|                    | 1800               | 1108                | 335                 | SOV50181W    | 1658                | 501                 | SOV50182W    | 2874                | 868                 | SOV50183W    | 4093                | 1236                | SOV50184W    |
|                    | 2000               | 1246                | 376                 | SOV50201W    | 1856                | 561                 | SOV50202W    | 3233                | 976                 | SOV50203W    | 4605                | 1391                | SOV50204W    |
|                    | 2200               | 1385                | 418                 | SOV50221W    | 2073                | 626                 | SOV50222W    | 3592                | 1085                | SOV50223W    | 5116                | 1545                | SOV50224W    |
|                    | 2400               | 1523                | 460                 | SOV50241W    | 2280                | 689                 | SOV50242W    | 3951                | 1193                | SOV50243W    | 5628                | 1700                | SOV50244W    |
|                    | 2600               | 1662                | 502                 | SOV50261W    | 2487                | 751                 | SOV50262W    | 4310                | 1302                | SOV50263W    | 6139                | 1854                | SOV50264W    |
|                    | 2800               | 1800                | 544                 | SOV50281W    | 2695                | 814                 | SOV50282W    | 4669                | 1410                | SOV50283W    | 6651                | 2009                | SOV50284W    |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 600                | 400                | 150                 | 45                  | SOV60041W    | 228                 | 69                  | SOV60042W    | 401                 | 121                 | SOV60043W    | 590                 | 178                 | SOV60044W    |
|                    | 500                | 225                 | 68                  | SOV60051W    | 342                 | 103                 | SOV60052W    | 601                 | 182                 | SOV60053W    | 884                 | 267                 | SOV60054W    |
|                    | 600                | 300                 | 91                  | SOV60061W    | 456                 | 138                 | SOV60062W    | 801                 | 242                 | SOV60063W    | 1179                | 356                 | SOV60064W    |
|                    | 700                | 375                 | 113                 | SOV60071W    | 570                 | 172                 | SOV60072W    | 1002                | 303                 | SOV60073W    | 1474                | 445                 | SOV60074W    |
|                    | 800                | 450                 | 136                 | SOV60081W    | 684                 | 207                 | SOV60082W    | 1202                | 363                 | SOV60083W    | 1769                | 534                 | SOV60084W    |
|                    | 900                | 525                 | 159                 | SOV60091W    | 798                 | 241                 | SOV60092W    | 1402                | 423                 | SOV60093W    | 2064                | 623                 | SOV60094W    |
|                    | 1000               | 600                 | 181                 | SOV60101W    | 912                 | 275                 | SOV60102W    | 1603                | 484                 | SOV60103W    | 2358                | 712                 | SOV60104W    |
|                    | 1100               | 675                 | 204                 | SOV60111W    | 1026                | 310                 | SOV60112W    | 1803                | 545                 | SOV60113W    | 2653                | 801                 | SOV60114W    |
|                    | 1200               | 750                 | 227                 | SOV60121W    | 1140                | 344                 | SOV60122W    | 2003                | 605                 | SOV60123W    | 2948                | 890                 | SOV60124W    |
|                    | 1400               | 899                 | 271                 | SOV60141W    | 1368                | 413                 | SOV60142W    | 2404                | 726                 | SOV60143W    | 3538                | 1068                | SOV60144W    |
|                    | 1600               | 1049                | 317                 | SOV60161W    | 1596                | 482                 | SOV60162W    | 2805                | 847                 | SOV60163W    | 4127                | 1246                | SOV60164W    |
|                    | 1800               | 1199                | 362                 | SOV60181W    | 1824                | 551                 | SOV60182W    | 3205                | 968                 | SOV60183W    | 4717                | 1425                | SOV60184W    |
|                    | 2000               | 1349                | 407                 | SOV60201W    | 2052                | 620                 | SOV60202W    | 3606                | 1089                | SOV60203W    | 5306                | 1602                | SOV60204W    |
|                    | 2200               | 1499                | 453                 | SOV60221W    | 2280                | 689                 | SOV60222W    | 4007                | 1210                | SOV60223W    | 5896                | 1781                | SOV60224W    |
|                    | 2400               | 1649                | 498                 | SOV60241W    | 2508                | 757                 | SOV60242W    | 4407                | 1331                | SOV60243W    | 6486                | 1959                | SOV60244W    |
|                    | 2600               | 1799                | 543                 | SOV60261W    | 2736                | 826                 | SOV60262W    | 4808                | 1452                | SOV60263W    | 7075                | 2137                | SOV60264W    |
|                    | 2800               | 1949                | 589                 | SOV60281W    | 2963                | 895                 | SOV60282W    | 5209                | 1573                | SOV60283W    | 7665                | 2315                | SOV60284W    |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*



# Sovereign

## Free Standing

### Summary:

**Manufacture:**

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners to both sides
- Honeycomb Punched grille to top of cover
- Pipework enters through feet for safety and aesthetics

**Emitter:**

- Lamella heat exchanger

**Valve options available:**

- Direct fit External TRV kit

**Finish:**

Polyester powder coated in 3 standard designs;

- Option A  
Front face = RAL 9016-White  
Top and sides = RAL 9016 White
- Option B  
Front face = RAL 9016-White  
Top and sides = RAL Dark Slate Grey Textured finish
- Option C  
Front face = RAL 5008 Grey Blue  
Top and sides = RAL 7035 Light Grey

### Technical Information & Specifications

**Standard delivery**

- Standard delivery comprises radiator guard of choice, corresponding Lamella heat exchanger (1FS, 2FS and 3FS as specified) and a Reverse angle Herz ½" external direct fit valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- Colour of casing to be specified at time of order.

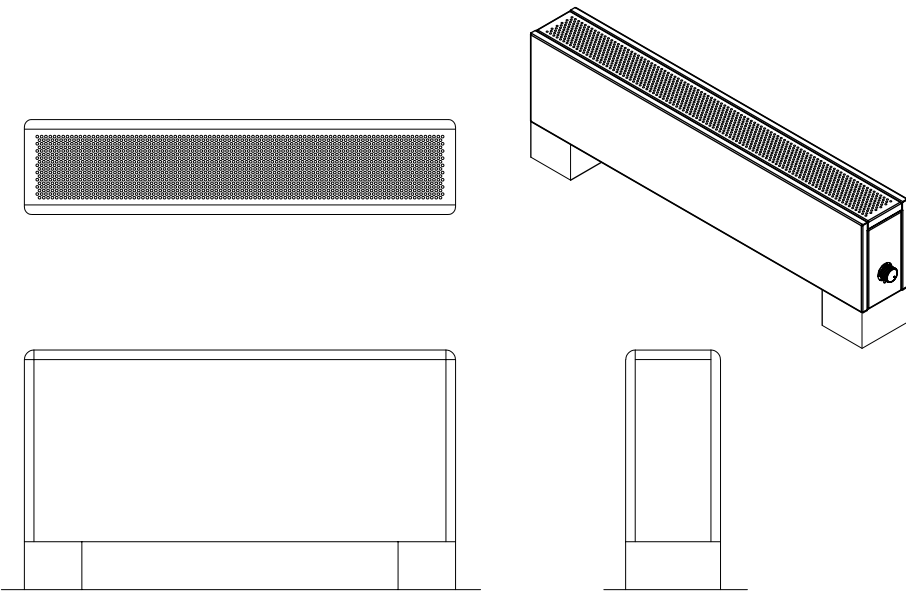
\*Additional carriage charges will apply for multiple phases

Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C

To achieve Delta T60 increase T50 figures by 20.5%  
To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293



| Casing Depth      |                   |                  |
|-------------------|-------------------|------------------|
| Type 1FS<br>138mm | Type 2FS<br>198mm | Type3FS<br>198mm |



Sovereign - Free-standing



| Radiator Type      |                    | Type 1FS            |                     |              | Type 2FS            |                     |              | Type 3FS            |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 138mm               |                     |              | 198mm               |                     |              | 258mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 190                | 400                | 113                 | 34                  | SOV19041FS   | 191                 | 58                  | SOV19042FS   | 266                 | 80                  | SOV19043FS   |
|                    | 500                | 161                 | 49                  | SOV19051FS   | 271                 | 82                  | SOV19052FS   | 377                 | 114                 | SOV19053FS   |
|                    | 600                | 209                 | 63                  | SOV19061FS   | 352                 | 106                 | SOV19062FS   | 489                 | 148                 | SOV19063FS   |
|                    | 700                | 256                 | 77                  | SOV19071FS   | 432                 | 130                 | SOV19072FS   | 601                 | 182                 | SOV19073FS   |
|                    | 800                | 304                 | 92                  | SOV19081FS   | 513                 | 155                 | SOV19082FS   | 713                 | 215                 | SOV19083FS   |
|                    | 900                | 352                 | 106                 | SOV19091FS   | 593                 | 179                 | SOV19092FS   | 825                 | 249                 | SOV19093FS   |
|                    | 1000               | 400                 | 121                 | SOV19101FS   | 673                 | 203                 | SOV19102FS   | 937                 | 283                 | SOV19103FS   |
|                    | 1100               | 447                 | 135                 | SOV19111FS   | 754                 | 228                 | SOV19112FS   | 1048                | 316                 | SOV19113FS   |
|                    | 1200               | 495                 | 149                 | SOV19121FS   | 834                 | 252                 | SOV19122FS   | 1160                | 350                 | SOV19123FS   |
|                    | 1400               | 590                 | 178                 | SOV19141FS   | 995                 | 300                 | SOV19142FS   | 1384                | 418                 | SOV19143FS   |
|                    | 1600               | 702                 | 212                 | SOV19161FS   | 1183                | 357                 | SOV19162FS   | 1645                | 497                 | SOV19163FS   |
|                    | 1800               | 797                 | 241                 | SOV19181FS   | 1344                | 406                 | SOV19182FS   | 1869                | 564                 | SOV19183FS   |
|                    | 2000               | 893                 | 270                 | SOV19201FS   | 1504                | 454                 | SOV19202FS   | 2093                | 632                 | SOV19203FS   |
|                    | 2200               | 988                 | 298                 | SOV19221FS   | 1665                | 503                 | SOV19222FS   | 2316                | 699                 | SOV19223FS   |
|                    | 2400               | 1083                | 327                 | SOV19241FS   | 1826                | 551                 | SOV19242FS   | 2540                | 767                 | SOV19243FS   |
|                    | 2600               | 1179                | 356                 | SOV19261FS   | 1987                | 600                 | SOV19262FS   | 2764                | 835                 | SOV19263FS   |
|                    | 2800               | 1274                | 385                 | SOV19281FS   | 2148                | 649                 | SOV19282FS   | 2984                | 901                 | SOV19283FS   |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 250                | 400                | 179                 | 54                  | SOV25041FS   | 293                 | 88                  | SOV25042FS   | 414                 | 125                 | SOV25043FS   |
|                    | 500                | 235                 | 71                  | SOV25051FS   | 384                 | 116                 | SOV25052FS   | 543                 | 164                 | SOV25053FS   |
|                    | 600                | 314                 | 95                  | SOV25061FS   | 511                 | 154                 | SOV25062FS   | 723                 | 218                 | SOV25063FS   |
|                    | 700                | 381                 | 115                 | SOV25071FS   | 621                 | 188                 | SOV25072FS   | 878                 | 265                 | SOV25073FS   |
|                    | 800                | 448                 | 135                 | SOV25081FS   | 730                 | 220                 | SOV25082FS   | 1033                | 312                 | SOV25083FS   |
|                    | 900                | 515                 | 156                 | SOV25091FS   | 840                 | 254                 | SOV25092FS   | 1188                | 359                 | SOV25093FS   |
|                    | 1000               | 582                 | 176                 | SOV25101FS   | 949                 | 287                 | SOV25102FS   | 1342                | 405                 | SOV25103FS   |
|                    | 1100               | 649                 | 196                 | SOV25111FS   | 1058                | 320                 | SOV25112FS   | 1497                | 452                 | SOV25113FS   |
|                    | 1200               | 716                 | 216                 | SOV25121FS   | 1168                | 353                 | SOV25122FS   | 1652                | 499                 | SOV25123FS   |
|                    | 1400               | 850                 | 257                 | SOV25141FS   | 1386                | 419                 | SOV25142FS   | 1961                | 592                 | SOV25143FS   |
|                    | 1600               | 1007                | 304                 | SOV25161FS   | 1642                | 496                 | SOV25162FS   | 2323                | 702                 | SOV25163FS   |
|                    | 1800               | 1141                | 345                 | SOV25181FS   | 1861                | 562                 | SOV25182FS   | 2632                | 795                 | SOV25183FS   |
|                    | 2000               | 1275                | 385                 | SOV25201FS   | 2080                | 628                 | SOV25202FS   | 2942                | 888                 | SOV25203FS   |
|                    | 2200               | 1409                | 426                 | SOV25221FS   | 2298                | 694                 | SOV25222FS   | 3251                | 982                 | SOV25223FS   |
|                    | 2400               | 1544                | 466                 | SOV25241FS   | 2517                | 760                 | SOV25242FS   | 3561                | 1075                | SOV25243FS   |
|                    | 2600               | 1678                | 507                 | SOV25261FS   | 2736                | 826                 | SOV25262FS   | 3870                | 1169                | SOV25263FS   |
|                    | 2800               | 1812                | 547                 | SOV25281FS   | 2955                | 892                 | SOV25282FS   | 4180                | 1262                | SOV25283FS   |

Sovereign - Free-standing



| Radiator Type      |                    | Type 1FS            |                     |              | Type 2FS            |                     |              | Type 3FS            |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 138mm               |                     |              | 198mm               |                     |              | 258mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 300                | 400                | 196                 | 59                  | SOV30041FS   | 320                 | 97                  | SOV30042FS   | 448                 | 135                 | SOV30043FS   |
|                    | 500                | 256                 | 77                  | SOV30051FS   | 419                 | 127                 | SOV30052FS   | 587                 | 177                 | SOV30053FS   |
|                    | 600                | 342                 | 103                 | SOV30061FS   | 559                 | 169                 | SOV30062FS   | 783                 | 236                 | SOV30063FS   |
|                    | 700                | 415                 | 125                 | SOV30071FS   | 679                 | 205                 | SOV30072FS   | 951                 | 287                 | SOV30073FS   |
|                    | 800                | 488                 | 147                 | SOV30081FS   | 799                 | 241                 | SOV30082FS   | 1118                | 338                 | SOV30083FS   |
|                    | 900                | 561                 | 169                 | SOV30091FS   | 918                 | 277                 | SOV30092FS   | 1286                | 388                 | SOV30093FS   |
|                    | 1000               | 635                 | 192                 | SOV30101FS   | 1038                | 313                 | SOV30102FS   | 1453                | 439                 | SOV30103FS   |
|                    | 1100               | 708                 | 214                 | SOV30111FS   | 1157                | 349                 | SOV30112FS   | 1621                | 490                 | SOV30113FS   |
|                    | 1200               | 781                 | 236                 | SOV30121FS   | 1277                | 386                 | SOV30122FS   | 1788                | 540                 | SOV30123FS   |
|                    | 1400               | 927                 | 280                 | SOV30141FS   | 1516                | 458                 | SOV30142FS   | 2124                | 641                 | SOV30143FS   |
|                    | 1600               | 1098                | 332                 | SOV30161FS   | 1796                | 542                 | SOV30162FS   | 2515                | 760                 | SOV30163FS   |
|                    | 1800               | 1244                | 376                 | SOV30181FS   | 2035                | 615                 | SOV30182FS   | 2850                | 861                 | SOV30183FS   |
|                    | 2000               | 1391                | 420                 | SOV30201FS   | 2274                | 687                 | SOV30202FS   | 3185                | 962                 | SOV30203FS   |
|                    | 2200               | 1537                | 464                 | SOV30221FS   | 2514                | 759                 | SOV30222FS   | 3520                | 1063                | SOV30223FS   |
|                    | 2400               | 1683                | 508                 | SOV30241FS   | 2753                | 831                 | SOV30242FS   | 3855                | 1164                | SOV30243FS   |
|                    | 2600               | 1829                | 552                 | SOV30261FS   | 2992                | 904                 | SOV30262FS   | 4190                | 1265                | SOV30263FS   |
|                    | 2800               | 1976                | 597                 | SOV30281FS   | 3231                | 976                 | SOV30282FS   | 4526                | 1367                | SOV30283FS   |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 400                | 400                | 221                 | 67                  | SOV40041FS   | 363                 | 110                 | SOV40042FS   | 501                 | 151                 | SOV40043FS   |
|                    | 500                | 290                 | 88                  | SOV40051FS   | 476                 | 144                 | SOV40052FS   | 657                 | 198                 | SOV40053FS   |
|                    | 600                | 386                 | 117                 | SOV40061FS   | 634                 | 191                 | SOV40062FS   | 876                 | 265                 | SOV40063FS   |
|                    | 700                | 469                 | 142                 | SOV40071FS   | 770                 | 233                 | SOV40072FS   | 1063                | 321                 | SOV40073FS   |
|                    | 800                | 552                 | 167                 | SOV40081FS   | 906                 | 274                 | SOV40082FS   | 1251                | 378                 | SOV40083FS   |
|                    | 900                | 634                 | 191                 | SOV40091FS   | 1042                | 315                 | SOV40092FS   | 1438                | 434                 | SOV40093FS   |
|                    | 1000               | 717                 | 217                 | SOV40101FS   | 1177                | 355                 | SOV40102FS   | 1626                | 491                 | SOV40103FS   |
|                    | 1100               | 799                 | 241                 | SOV40111FS   | 1313                | 397                 | SOV40112FS   | 1813                | 548                 | SOV40113FS   |
|                    | 1200               | 882                 | 266                 | SOV40121FS   | 1449                | 438                 | SOV40122FS   | 2000                | 604                 | SOV40123FS   |
|                    | 1400               | 1047                | 316                 | SOV40141FS   | 1720                | 519                 | SOV40142FS   | 2375                | 717                 | SOV40143FS   |
|                    | 1600               | 1240                | 374                 | SOV40161FS   | 2037                | 615                 | SOV40162FS   | 2813                | 850                 | SOV40163FS   |
|                    | 1800               | 1406                | 425                 | SOV40181FS   | 2309                | 697                 | SOV40182FS   | 3188                | 963                 | SOV40183FS   |
|                    | 2000               | 1571                | 474                 | SOV40201FS   | 2580                | 779                 | SOV40202FS   | 3563                | 1076                | SOV40203FS   |
|                    | 2200               | 1736                | 524                 | SOV40221FS   | 2852                | 861                 | SOV40222FS   | 3937                | 1189                | SOV40223FS   |
|                    | 2400               | 1901                | 574                 | SOV40241FS   | 3123                | 943                 | SOV40242FS   | 4312                | 1302                | SOV40243FS   |
|                    | 2600               | 2067                | 624                 | SOV40261FS   | 3394                | 1025                | SOV40262FS   | 4687                | 1415                | SOV40263FS   |
|                    | 2800               | 2232                | 674                 | SOV40281FS   | 3666                | 1107                | SOV40282FS   | 5062                | 1529                | SOV40283FS   |



Sovereign - Free-standing



| Radiator Type      |                    | Type 1FS            |                     |              | Type 2FS            |                     |              | Type 3FS            |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 138mm               |                     |              | 198mm               |                     |              | 258mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 500                | 400                | 241                 | 73                  | SOV50041FS   | 397                 | 120                 | SOV50042FS   | 543                 | 164                 | SOV50043FS   |
|                    | 500                | 316                 | 95                  | SOV50051FS   | 520                 | 157                 | SOV50052FS   | 711                 | 215                 | SOV50053FS   |
|                    | 600                | 421                 | 127                 | SOV50061FS   | 694                 | 210                 | SOV50062FS   | 949                 | 287                 | SOV50063FS   |
|                    | 700                | 511                 | 154                 | SOV50071FS   | 842                 | 254                 | SOV50072FS   | 1151                | 348                 | SOV50073FS   |
|                    | 800                | 601                 | 182                 | SOV50081FS   | 991                 | 299                 | SOV50082FS   | 1354                | 409                 | SOV50083FS   |
|                    | 900                | 692                 | 209                 | SOV50091FS   | 1139                | 344                 | SOV50092FS   | 1557                | 470                 | SOV50093FS   |
|                    | 1000               | 782                 | 236                 | SOV50101FS   | 1287                | 389                 | SOV50102FS   | 1760                | 532                 | SOV50103FS   |
|                    | 1100               | 872                 | 263                 | SOV50111FS   | 1436                | 434                 | SOV50112FS   | 1963                | 593                 | SOV50113FS   |
|                    | 1200               | 962                 | 291                 | SOV50121FS   | 1584                | 478                 | SOV50122FS   | 2166                | 654                 | SOV50123FS   |
|                    | 1400               | 1142                | 345                 | SOV50141FS   | 1881                | 568                 | SOV50142FS   | 2572                | 777                 | SOV50143FS   |
|                    | 1600               | 1353                | 409                 | SOV50161FS   | 2228                | 673                 | SOV50162FS   | 3046                | 920                 | SOV50163FS   |
|                    | 1800               | 1533                | 463                 | SOV50181FS   | 2525                | 763                 | SOV50182FS   | 3452                | 1043                | SOV50183FS   |
|                    | 2000               | 1713                | 517                 | SOV50201FS   | 2822                | 852                 | SOV50202FS   | 3857                | 1165                | SOV50203FS   |
|                    | 2200               | 1893                | 572                 | SOV50221FS   | 3118                | 942                 | SOV50222FS   | 4263                | 1287                | SOV50223FS   |
|                    | 2400               | 2073                | 626                 | SOV50241FS   | 3415                | 1031                | SOV50242FS   | 4669                | 1410                | SOV50243FS   |
|                    | 2600               | 2254                | 681                 | SOV50261FS   | 3712                | 1121                | SOV50262FS   | 5075                | 1533                | SOV50263FS   |
|                    | 2800               | 2434                | 735                 | SOV50281FS   | 4009                | 1211                | SOV50282FS   | 5480                | 1655                | SOV50283FS   |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 600                | 400                | 258                 | 78                  | SOV60041FS   | 426                 | 129                 | SOV60042FS   | 577                 | 174                 | SOV60043FS   |
|                    | 500                | 338                 | 102                 | SOV60051FS   | 558                 | 169                 | SOV60052FS   | 757                 | 229                 | SOV60053FS   |
|                    | 600                | 450                 | 136                 | SOV60061FS   | 744                 | 225                 | SOV60062FS   | 1009                | 305                 | SOV60063FS   |
|                    | 700                | 547                 | 165                 | SOV60071FS   | 903                 | 273                 | SOV60072FS   | 1225                | 370                 | SOV60073FS   |
|                    | 800                | 643                 | 194                 | SOV60081FS   | 1062                | 321                 | SOV60082FS   | 1440                | 435                 | SOV60083FS   |
|                    | 900                | 740                 | 223                 | SOV60091FS   | 1221                | 369                 | SOV60092FS   | 1656                | 500                 | SOV60093FS   |
|                    | 1000               | 836                 | 252                 | SOV60101FS   | 1380                | 417                 | SOV60102FS   | 1872                | 565                 | SOV60103FS   |
|                    | 1100               | 932                 | 281                 | SOV60111FS   | 1539                | 465                 | SOV60112FS   | 2088                | 631                 | SOV60113FS   |
|                    | 1200               | 1029                | 311                 | SOV60121FS   | 1698                | 513                 | SOV60122FS   | 2303                | 696                 | SOV60123FS   |
|                    | 1400               | 1221                | 369                 | SOV60141FS   | 2016                | 609                 | SOV60142FS   | 2735                | 826                 | SOV60143FS   |
|                    | 1600               | 1446                | 437                 | SOV60161FS   | 2388                | 721                 | SOV60162FS   | 3239                | 978                 | SOV60163FS   |
|                    | 1800               | 1639                | 495                 | SOV60181FS   | 2706                | 817                 | SOV60182FS   | 3671                | 1109                | SOV60183FS   |
|                    | 2000               | 1832                | 553                 | SOV60201FS   | 3024                | 913                 | SOV60202FS   | 4103                | 1239                | SOV60203FS   |
|                    | 2200               | 2025                | 612                 | SOV60221FS   | 3343                | 1010                | SOV60222FS   | 4534                | 1369                | SOV60223FS   |
|                    | 2400               | 2217                | 670                 | SOV60241FS   | 3661                | 1106                | SOV60242FS   | 4966                | 1500                | SOV60243FS   |
|                    | 2600               | 2410                | 728                 | SOV60261FS   | 3979                | 1202                | SOV60262FS   | 5397                | 1630                | SOV60263FS   |
|                    | 2800               | 2603                | 786                 | SOV60281FS   | 4297                | 1298                | SOV60282FS   | 5829                | 1760                | SOV60283FS   |

Sovereign - Free-standing



| Radiator Type      |                    | Type 1FS            |                     |              | Type 2FS            |                     |              | Type 3FS            |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 138mm               |                     |              | 198mm               |                     |              | 258mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 700                | 400                | 272                 | 82                  | SOV70041FS   | 450                 | 136                 | SOV70042FS   | 607                 | 183                 | SOV70043FS   |
|                    | 500                | 357                 | 108                 | SOV70051FS   | 590                 | 178                 | SOV70052FS   | 796                 | 240                 | SOV70053FS   |
|                    | 600                | 476                 | 144                 | SOV70061FS   | 787                 | 238                 | SOV70062FS   | 1061                | 320                 | SOV70063FS   |
|                    | 700                | 578                 | 175                 | SOV70071FS   | 955                 | 288                 | SOV70072FS   | 1288                | 389                 | SOV70073FS   |
|                    | 800                | 679                 | 205                 | SOV70081FS   | 1124                | 339                 | SOV70082FS   | 1515                | 458                 | SOV70083FS   |
|                    | 900                | 781                 | 236                 | SOV70091FS   | 1292                | 390                 | SOV70092FS   | 1742                | 526                 | SOV70093FS   |
|                    | 1000               | 883                 | 267                 | SOV70101FS   | 1461                | 441                 | SOV70102FS   | 1969                | 595                 | SOV70103FS   |
|                    | 1100               | 985                 | 297                 | SOV70111FS   | 1629                | 492                 | SOV70112FS   | 2196                | 663                 | SOV70113FS   |
|                    | 1200               | 1087                | 328                 | SOV70121FS   | 1797                | 543                 | SOV70122FS   | 2422                | 731                 | SOV70123FS   |
|                    | 1400               | 1290                | 390                 | SOV70141FS   | 2134                | 644                 | SOV70142FS   | 2876                | 869                 | SOV70143FS   |
|                    | 1600               | 1528                | 461                 | SOV70161FS   | 2527                | 763                 | SOV70162FS   | 3407                | 1029                | SOV70163FS   |
|                    | 1800               | 1732                | 523                 | SOV70181FS   | 2864                | 865                 | SOV70182FS   | 3861                | 1166                | SOV70183FS   |
|                    | 2000               | 1935                | 584                 | SOV70201FS   | 3201                | 967                 | SOV70202FS   | 4314                | 1303                | SOV70203FS   |
|                    | 2200               | 2139                | 646                 | SOV70221FS   | 3538                | 1068                | SOV70222FS   | 4768                | 1440                | SOV70223FS   |
|                    | 2400               | 2342                | 707                 | SOV70241FS   | 3874                | 1170                | SOV70242FS   | 5222                | 1577                | SOV70243FS   |
|                    | 2600               | 2546                | 769                 | SOV70261FS   | 4211                | 1272                | SOV70262FS   | 5676                | 1714                | SOV70263FS   |
|                    | 2800               | 2749                | 830                 | SOV70281FS   | 4548                | 1373                | SOV70282FS   | 6130                | 1851                | SOV702823S   |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

# Sovereign

## Bench Radiator

Summary:

Manufacture:

- 1.5mm Zintec steel
- 10mm Radius edges / bullnose corners
- Honeycomb Punched grille to top of cover
- Hard wood seat – Beech
- Slimline or pipe guard feet available

Emitter:

- Lamella heat exchanger

Valve options available:

- Direct fit External TRV kit

Finish:

Polyester powder coated RAL 9016-White

### Technical Information & Specifications

Standard delivery

- Standard delivery comprises radiator guard of choice, corresponding Lamella heat exchanger (1B, 2B and 3B as specified) and a Reverse angle Herz ½" external direct fit valve kit (suitable for 15mm copper to copper connection on a two-pipe system)
- Hard wood seat with brackets and fixings

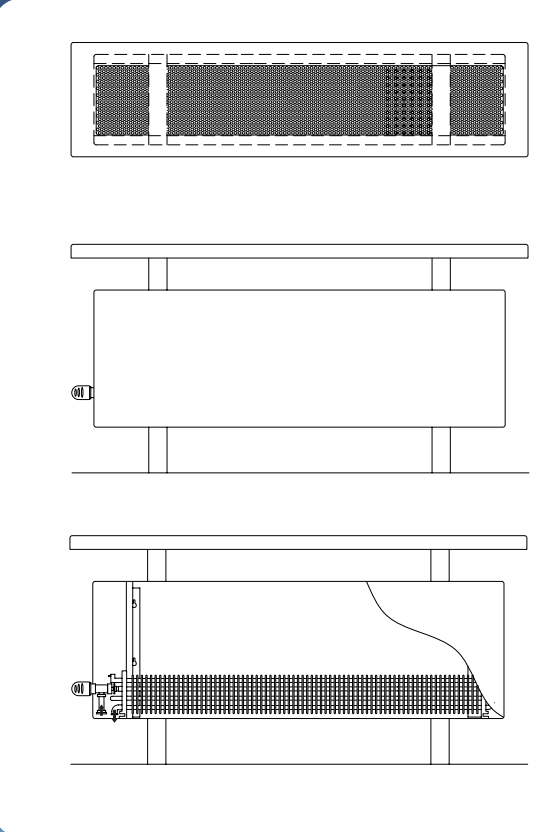
\*Additional carriage charges will apply for multiple phases

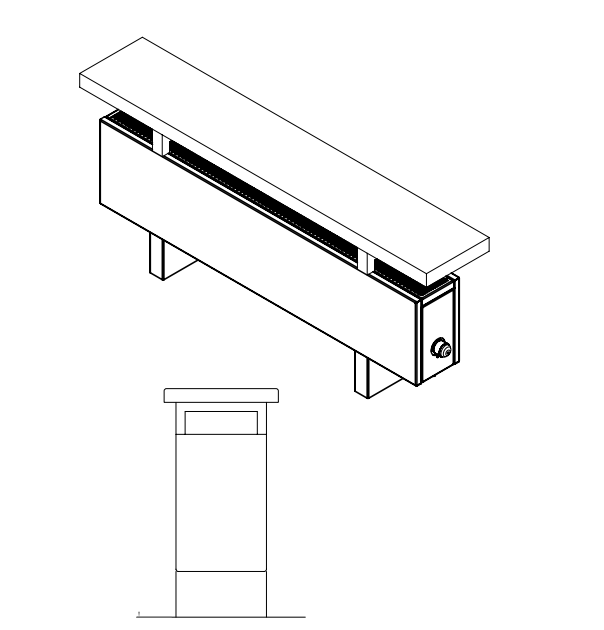
Heat Outputs to BS EN 442 Certification.

Outputs based on a mean radiator water temperature of 70°C and a room temperature of 20°C - Delta T 50°C  
To achieve Delta T60 increase T50 figures by 20.5%

To calculate alternative Delta T requirements please refer to page 118

To convert BTU to Watts multiply by 0.293. To convert Watts to BTU divide by 0.293





| Casing Depth     |                  |                  |
|------------------|------------------|------------------|
| Type 11<br>190mm | Type 21<br>250mm | Type 22<br>310mm |





Sovereign - Bench



| Radiator Type      |                    | Type 1B             |                     |              | Type 2B             |                     |              | Type 3B             |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 190mm               |                     |              | 250mm               |                     |              | 310mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 290                | 500                | 113                 | 34                  | SOV29051B    | 191                 | 58                  | SOV29052B    | 266                 | 80                  | SOV29053B    |
|                    | 600                | 161                 | 49                  | SOV29061B    | 271                 | 82                  | SOV29062B    | 377                 | 114                 | SOV29063B    |
|                    | 700                | 209                 | 63                  | SOV29071B    | 352                 | 106                 | SOV29072B    | 489                 | 148                 | SOV29073B    |
|                    | 800                | 256                 | 77                  | SOV29081B    | 432                 | 130                 | SOV29082B    | 601                 | 182                 | SOV29083B    |
|                    | 900                | 304                 | 92                  | SOV29091B    | 513                 | 155                 | SOV29092B    | 713                 | 215                 | SOV29093B    |
|                    | 1000               | 352                 | 106                 | SOV29101B    | 593                 | 179                 | SOV29102B    | 825                 | 249                 | SOV29103B    |
|                    | 1100               | 400                 | 121                 | SOV29111B    | 673                 | 203                 | SOV29112B    | 937                 | 283                 | SOV29113B    |
|                    | 1200               | 447                 | 135                 | SOV29121B    | 754                 | 228                 | SOV29122B    | 1048                | 316                 | SOV29123B    |
|                    | 1300               | 495                 | 149                 | SOV29131B    | 834                 | 252                 | SOV29132B    | 1160                | 350                 | SOV29133B    |
|                    | 1500               | 590                 | 178                 | SOV29151B    | 995                 | 300                 | SOV29152B    | 1384                | 418                 | SOV29153B    |
|                    | 1700               | 702                 | 212                 | SOV29171B    | 1183                | 357                 | SOV29172B    | 1645                | 497                 | SOV29173B    |
|                    | 1900               | 797                 | 241                 | SOV29191B    | 1344                | 406                 | SOV29192B    | 1869                | 564                 | SOV29193B    |
|                    | 2100               | 893                 | 270                 | SOV29211B    | 1504                | 454                 | SOV29212B    | 2093                | 632                 | SOV29213B    |
|                    | 2300               | 988                 | 298                 | SOV29231B    | 1665                | 503                 | SOV29232B    | 2316                | 699                 | SOV29233B    |
|                    | 2500               | 1083                | 327                 | SOV29251B    | 1826                | 551                 | SOV29252B    | 2540                | 767                 | SOV29253B    |
|                    | 2700               | 1179                | 356                 | SOV29271B    | 1987                | 600                 | SOV29272B    | 2764                | 835                 | SOV29273B    |
|                    | 2900               | 1274                | 385                 | SOV29291B    | 2148                | 649                 | SOV29292B    | 2984                | 901                 | SOV29293B    |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 350                | 500                | 179                 | 54                  | SOV35051B    | 293                 | 88                  | SOV35052B    | 414                 | 125                 | SOV35053B    |
|                    | 600                | 235                 | 71                  | SOV35061B    | 384                 | 116                 | SOV35062B    | 543                 | 164                 | SOV35063B    |
|                    | 700                | 314                 | 95                  | SOV35071B    | 511                 | 154                 | SOV35072B    | 723                 | 218                 | SOV35073B    |
|                    | 800                | 381                 | 115                 | SOV35081B    | 621                 | 188                 | SOV35082B    | 878                 | 265                 | SOV35083B    |
|                    | 900                | 448                 | 135                 | SOV35091B    | 730                 | 220                 | SOV35092B    | 1033                | 312                 | SOV35093B    |
|                    | 1000               | 515                 | 156                 | SOV35101B    | 840                 | 254                 | SOV35102B    | 1188                | 359                 | SOV35103B    |
|                    | 1100               | 582                 | 176                 | SOV35111B    | 949                 | 287                 | SOV35112B    | 1342                | 405                 | SOV35113B    |
|                    | 1200               | 649                 | 196                 | SOV35121B    | 1058                | 320                 | SOV35122B    | 1497                | 452                 | SOV35123B    |
|                    | 1300               | 716                 | 216                 | SOV35131B    | 1168                | 353                 | SOV35132B    | 1652                | 499                 | SOV35133B    |
|                    | 1500               | 850                 | 257                 | SOV35151B    | 1386                | 419                 | SOV35152B    | 1961                | 592                 | SOV35153B    |
|                    | 1700               | 1007                | 304                 | SOV35171B    | 1642                | 496                 | SOV35172B    | 2323                | 702                 | SOV35173B    |
|                    | 1900               | 1141                | 345                 | SOV35191B    | 1861                | 562                 | SOV35192B    | 2632                | 795                 | SOV35193B    |
|                    | 2100               | 1275                | 385                 | SOV35211B    | 2080                | 628                 | SOV35212B    | 2942                | 888                 | SOV35213B    |
|                    | 2300               | 1409                | 426                 | SOV35231B    | 2298                | 694                 | SOV35232B    | 3251                | 982                 | SOV35233B    |
|                    | 2500               | 1544                | 466                 | SOV35251B    | 2517                | 760                 | SOV35252B    | 3561                | 1075                | SOV35253B    |
|                    | 2700               | 1678                | 507                 | SOV35271B    | 2736                | 826                 | SOV35272B    | 3870                | 1169                | SOV35273B    |
|                    | 2900               | 1812                | 547                 | SOV35291B    | 2955                | 892                 | SOV35292B    | 4180                | 1262                | SOV35293B    |

Sovereign - Bench



| Radiator Type      |                    | Type 1B             |                     |              | Type 2B             |                     |              | Type 3B             |                     |              |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| Casing Depths      |                    | 190mm               |                     |              | 250mm               |                     |              | 310mm               |                     |              |
| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
| 400                | 500                | 196                 | 59                  | SOV40051B    | 320                 | 97                  | SOV40052B    | 448                 | 135                 | SOV40053B    |
|                    | 600                | 256                 | 77                  | SOV40061B    | 419                 | 127                 | SOV40062B    | 587                 | 177                 | SOV40063B    |
|                    | 700                | 342                 | 103                 | SOV40071B    | 559                 | 169                 | SOV40072B    | 783                 | 236                 | SOV40073B    |
|                    | 800                | 415                 | 125                 | SOV40081B    | 679                 | 205                 | SOV40082B    | 951                 | 287                 | SOV40083B    |
|                    | 900                | 488                 | 147                 | SOV40091B    | 799                 | 241                 | SOV40092B    | 1118                | 338                 | SOV40093B    |
|                    | 1000               | 561                 | 169                 | SOV40101B    | 918                 | 277                 | SOV40102B    | 1286                | 388                 | SOV40103B    |
|                    | 1100               | 635                 | 192                 | SOV40111B    | 1038                | 313                 | SOV40112B    | 1453                | 439                 | SOV40113B    |
|                    | 1200               | 708                 | 214                 | SOV40121B    | 1157                | 349                 | SOV40122B    | 1621                | 490                 | SOV40123B    |
|                    | 1300               | 781                 | 236                 | SOV40131B    | 1277                | 386                 | SOV40132B    | 1788                | 540                 | SOV40133B    |
|                    | 1500               | 927                 | 280                 | SOV40151B    | 1516                | 458                 | SOV40152B    | 2124                | 641                 | SOV40153B    |
|                    | 1700               | 1098                | 332                 | SOV40171B    | 1796                | 542                 | SOV40172B    | 2515                | 760                 | SOV40173B    |
|                    | 1900               | 1244                | 376                 | SOV40191B    | 2035                | 615                 | SOV40192B    | 2850                | 861                 | SOV40193B    |
|                    | 2100               | 1391                | 420                 | SOV40211B    | 2274                | 687                 | SOV40212B    | 3185                | 962                 | SOV40213B    |
|                    | 2300               | 1537                | 464                 | SOV40231B    | 2514                | 759                 | SOV40232B    | 3520                | 1063                | SOV40233B    |
|                    | 2500               | 1683                | 508                 | SOV40251B    | 2753                | 831                 | SOV40252B    | 3855                | 1164                | SOV40253B    |
|                    | 2700               | 1829                | 552                 | SOV40271B    | 2992                | 904                 | SOV40272B    | 4190                | 1265                | SOV40273B    |
|                    | 2900               | 1976                | 597                 | SOV40291B    | 3231                | 976                 | SOV40292B    | 4526                | 1367                | SOV40293B    |

| Casing Height (mm) | Casing Length (mm) | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code | Output Watts (ΔT50) | Output Watts (ΔT20) | Product Code |
|--------------------|--------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|
| 500                | 500                | 221                 | 67                  | SOV50051B    | 363                 | 110                 | SOV50052B    | 501                 | 151                 | SOV50053B    |
|                    | 600                | 290                 | 88                  | SOV50061B    | 476                 | 144                 | SOV50062B    | 657                 | 198                 | SOV50063B    |
|                    | 700                | 386                 | 117                 | SOV50071B    | 634                 | 191                 | SOV50072B    | 876                 | 265                 | SOV500713    |
|                    | 800                | 469                 | 142                 | SOV50081B    | 770                 | 233                 | SOV50082B    | 1063                | 321                 | SOV50083B    |
|                    | 900                | 552                 | 167                 | SOV50091B    | 906                 | 274                 | SOV50092B    | 1251                | 378                 | SOV50093B    |
|                    | 1000               | 634                 | 191                 | SOV50101B    | 1042                | 315                 | SOV50102B    | 1438                | 434                 | SOV50103B    |
|                    | 1100               | 717                 | 217                 | SOV50111B    | 1177                | 355                 | SOV50112B    | 1626                | 491                 | SOV50113B    |
|                    | 1200               | 799                 | 241                 | SOV50121B    | 1313                | 397                 | SOV50122B    | 1813                | 548                 | SOV50123B    |
|                    | 1300               | 882                 | 266                 | SOV50131B    | 1449                | 438                 | SOV50132B    | 2000                | 604                 | SOV50133B    |
|                    | 1500               | 1047                | 316                 | SOV50151B    | 1720                | 519                 | SOV50152B    | 2375                | 717                 | SOV50153B    |
|                    | 1700               | 1240                | 374                 | SOV50171B    | 2037                | 615                 | SOV50172B    | 2813                | 850                 | SOV50173B    |
|                    | 1900               | 1406                | 425                 | SOV50191B    | 2309                | 697                 | SOV50192B    | 3188                | 963                 | SOV50193B    |
|                    | 2100               | 1571                | 474                 | SOV50211B    | 2580                | 779                 | SOV50212B    | 3563                | 1076                | SOV50213B    |
|                    | 2300               | 1736                | 524                 | SOV50231B    | 2852                | 861                 | SOV50232B    | 3937                | 1189                | SOV50233B    |
|                    | 2500               | 1901                | 574                 | SOV50251B    | 3123                | 943                 | SOV50252B    | 4312                | 1302                | SOV50253B    |
|                    | 2700               | 2067                | 624                 | SOV50271B    | 3394                | 1025                | SOV50272B    | 4687                | 1415                | SOV50273B    |
|                    | 2900               | 2232                | 674                 | SOV50291B    | 3666                | 1107                | SOV50292B    | 5062                | 1529                | SOV50293B    |

\*For installations where the guard does not extend to the floor, a base plate can be supplied. If this is required, please add **BP** to the end of the product code.\*

# HVAC-Air Con Unit Anti-Ligature Covers

Contour's AC covers offer a robust, hygienic, and practical solution that delivers long-term performance in the most demanding of environments.

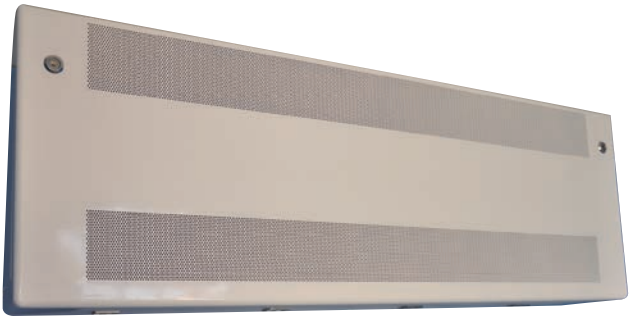
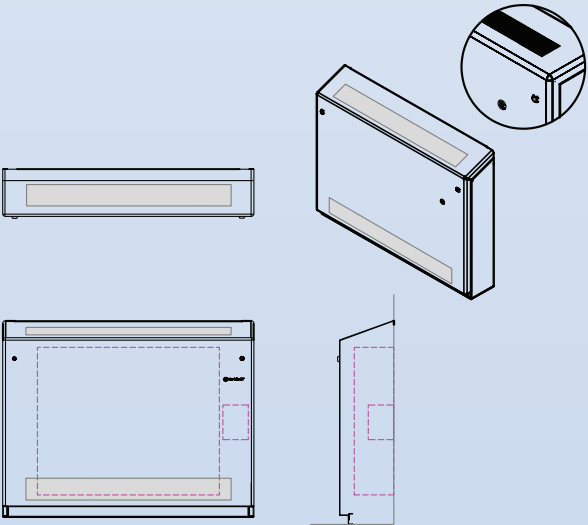
Pioneering drop-down front door providing complete access to every internal surface for cleaning and maintenance – removing the need for assistance from estates.



## Floor Mounted

The patented quick access design of our floor-mounted AC covers enables a single person to access the interior unit for regular cleaning and maintenance.

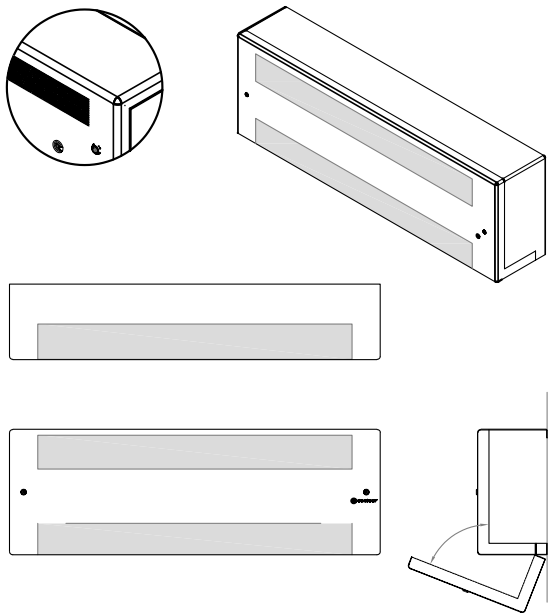
A key benefit to the floor-mounted AC cover is that it allows for pre-fabricated cut-outs for vinyl flooring and skirting boards to ensure there is no need for noisy and messy on-site cutting.



## Wall/Ceiling Mounted

Air conditioning units in mental health, custodial and even SEN schools are more susceptible to tampering and vandalism. With this in mind, there is a need to provide a cover which is built around safety to the end-user.

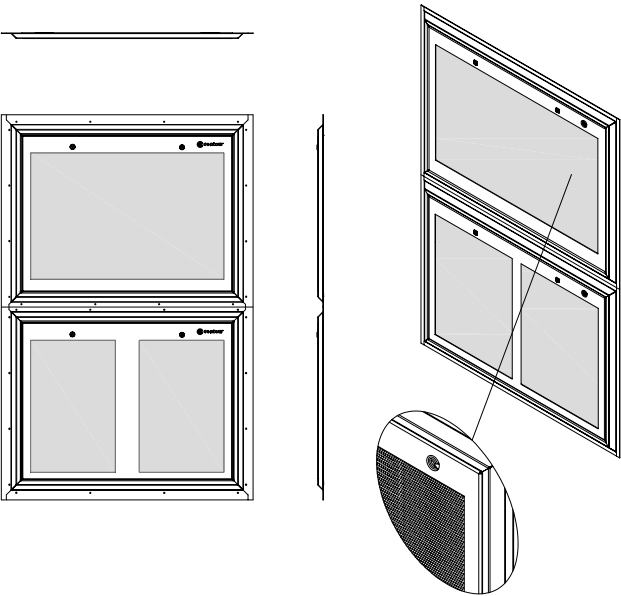
A ceiling-mounted AC cover provides an ideal solution to provide protection from damage and vandalism because they can be fitted at height.



## Flat Panel

We understand that every environment is different, and with this, will present its own unique requirements. That's why we have developed the flat-panelled AC covers.

Our AC covers can be retrofitted over existing systems to deliver a solution for use in hospitals, mental health units, SEN schools, pupil referral units care homes, nurseries, school, colleges and other public access buildings.



## Perimeter

Perimeter casing requires careful designing to ensure that the efficient functioning of an air movement system will not be impeded by a casing form that suits the aesthetic of the interior environment.

With perimeter casing, you'll not need pipe boxing and it can provide easy access for cleaning and maintenance.





# Pipe Boxing

**Contour provides a range of metal and preformed plywood pipe boxing solutions. Robust and with a durable finish, our pipe boxing excels in high-traffic areas and the smooth finish enables easy cleaning.**

We offer our pipe boxing in two profiles, L-shaped and U-shaped, both available in plywood and metal. In addition, Zintec and magnelis steel options are available and are suited to more demanding and high moisture environments.

We can provide an entirely bespoke and complete turnkey solution for metal and plywood pipe boxing, from survey and design through to manufacture and installation. Vented pipe boxing for one pipe systems can also be offered as an option.

## Plywood Pipe Boxing



Contour's preformed plywood boxing is available in 5mm and 8mm thicknesses, providing a versatile and adaptable solution for concealing interior piping in applications ranging from bathrooms and bedrooms to complete heating installations.

Pre-finished with an attractive and durable, easy to clean white melamine surface as a standard, Contour's preformed plywood pipe boxing adheres to the latest NHS guidelines which call for all piping below 2m to be boxed in.

Where hygiene is a key consideration, plywood pipe boxing can be laminated to create a harder-wearing and less porous surface. Not only does this mean it can cope with more regular cleaning than the standard melamine finish option, it's also better suited for areas of high traffic.

Available in 2.5m and 3m lengths as standard, bespoke sizes are also available with a complete supply and install service.

There are also a variety of accessories available, including:

- Internal corners (90deg)
- External corners (90deg)
- Stop ends
- Butt joint covers
- Access doors
- Timber fixing battens metal angle brackets and fixing screws



## Metal Pipe Boxing

Providing a versatile and adaptable solution for concealing interior pipework in both domestic and commercial applications, Contour's metal pipe boxing is made from 2mm thick aluminium as standard.

Other materials are also available such as Zintec steel (1.5mm/2mm) for demanding environments as well as magnelis steel, an option suited to wet rooms and ensembles as it prevents rusting and corrosion.

With NHS guidelines calling for pipework below 2m to be boxed, Contour's metal pipe boxing finished in a durable polyester powder coating including BioCote, helping prevent the spread of microbes such as E.coli and MRSA.

Available in 2.5m and 3m lengths as standard, bespoke sizes are also available with a complete supply and install service.

There are also a variety of accessories available, including:

- Internal corners (90deg)
- External corners (90deg)
- Stop ends
- Butt joint covers
- Access doors
- Timber fixing battens metal angle brackets and fixing screws



# Anti-Ligature Products

Alongside Contour's range of Anti-ligature radiators and guards, we have a comprehensive range of other anti-ligature solutions designed to be used in mental health and challenging environments.

Environments of this nature pose a series of suicide and self-harm risks, which has prompted us to develop our anti-ligature range.



## Product Benefits:

- Strip hinged front door allows for authorised access only.
- 3mm holes are punched into powder coated ventilation grilles that allows the air to circulate through the cover whilst allowing the sound to transmit into the room.
- The frame of the cabinet is made from 25mm melamine faced MDF in a white finish. The TV is protected via a 8mm polycarbonate vision panel.
- Locked as standard with either key lock or starkey quarter turn locks.
- Standard sizes available to suit 32", 42" and 50" TVs. Should you require a different size then please contact us to discuss.

## Anti-Ligature TV Cabinet

**Designed to reduce ligature risk while providing secure television protection for all challenging behaviour environments**

When an expensive item like a television gets damaged, it can be costly to replace.

TVs are installed into a number of environments such as Hospitals, Mental Health hospitals, SEN Schools and other public buildings. They are normally installed in bedrooms, lounges and waiting areas.

Depending on the environment, they are commonly targeted as an item of furniture to cause damage to. Contour's Anti-Ligature TV Cabinet protects TVs by fully encapsulating them in a stylish wooden cabinet. The sloping sides ensure there are no ligature points.



**The TV cabinets are available in a range of wood-effect finishes.**

**Standard Sizes Available To Fit TVs Of:**

**32" 42" 50"**



# Anti-Ligature Light Switch Covers

Light switches are often the target for vandalism in mental health settings. This can result in electrical shock risks and ligature risks.

The misuse of lights can also be an issue, especially emergency lighting being turned on as a night light. This then drains the batteries and cannot be used when needed in the event of an emergency.

For ultimate hygiene, the Anti-Ligature Light Switch incorporates BioCote®, the patented silver based anti-microbial agent in the paintwork. This unique, patented additive to our powder coating provides an effective, safe and long-lasting solution to combating a wide range of dangerous bacteria, including MRSA, providing a major benefit in areas where infection control is important.

This is especially important for light switches, as these gather bacteria quickly because they're used frequently. A safe, anti-microbial and easy to clean light switch cover is ideal for mental health environments, SEN schools, reception and waiting areas, wards, doctors, and accommodation areas as these environments benefit from a robust light switch cover.

The current design is to suit a MK light switch, double or four gang. The design can be adapted to suit other light switches upon request.

**The Anti-Ligature Light Switch provides durability and authorised access only.**

## The benefits include:

- Manufactured from 1.5mm Zintec steel.
- Limits misuse by preventing service users from regularly turning lights on and off.
- Minimises the risk of self-harm through electrocution and obtaining shocks.
- Reduces energy usage.
- Robust frame with minimal ligature risks.
- Authorised access only with quarter turn security lock
- Powder coated finish - RAL 9003 white as standard (other colours are available upon request.)



# Anti-Ligature Thermostat Cover

Anti-Ligature thermostat covers are ideal for environments that are required to ensure ligature risks are reduced to provide safety to users. They can be used in individual rooms within health settings so that all service users can be a comfortable temperature in their environment with control too.

Thermostats can be subject to vandalism in mental health settings, this can result in ligature risks because sharp parts could be on display and the internal capillary wire could be used to self-harm.

The robust chamfered box design reduces the ligature helps to reduce vandalism by deflecting impacts away from delicate body of the thermostat. IP3X ventilation grilles gives airflow to the thermostat whilst minimising the risk of ligature being able to be tied to the grille.

For ultimate hygiene, the anti-ligature thermostat cover incorporates BioCote®, the patented silver based anti-microbial agent in the paintwork. This unique, patented additive to our powder coating provides an effective, safe, and long-lasting solution to combating a wide range of dangerous bacteria, including MRSA, providing a major benefit in areas where infection control is important.

This is especially important for an anti-ligature thermostat, as thermostats can gather bacteria quickly because they are used frequently by staff and patients.

Currently designed for the Danfoss RA5060 head, the design could be adapted to suit other thermostats.

## The benefits include:

- Manufactured from 1.5mm Zintec steel.
- Limits vandalism and ligature risks
- Robust frame
- Powder coated finish - RAL 9003 white as standard (other colours are available upon request.)



# Rotarad Valve kit

Gaining access behind radiators for cleaning and maintenance is fast-becoming a thing of the past with the advent of Rotarad rotating radiator valves.

Rotarad is a unique, WRAS, KTW and ACS approved rotating valve kit, which can be used on both new installation projects and retrofitted to existing radiators and eliminates many longstanding access problems.

By installing Rotarad, new or existing radiators can be rotated down to floor level for cleaning and maintenance, without having to drain or turn off the heating system, enabling fast and easy access to the rear of a radiator and the wall behind. Rotarad is fully compatible with Contour's DeepClean range.

The secret of Rotarad is the patented rotating valve fitting, which is used to adapt standard radiator valves and can be easily fitted to any standard panel radiator. This allows the radiator to pivot along the axis of the radiator valves, without putting any strain on the pipework or fittings. Radiators then become more practical, as they can be lowered quickly, simply and safely without the risk of causing a leak or worse. A robust bracket holds the emitter upright and against the wall.



### Benefits

- Improve cleaning standards by allowing staff to get behind the radiator.
- Reduce infection rates on hospital wards
- Perfect for redecorating behind the radiator easily

\*not suitable for heating systems that are piped up Top Bottom Opposite End or cast iron radiators



# Anti-Ligature Ventilation Grille

Ventilation grilles are often positioned on ceilings or high on walls. Their openings can be used to create a ligature point, making ventilation grilles a serious hazard in mental health environments. Plastic grilles can be broken to create sharp instruments, creating a risk to service users and staff. Contours Anti-Ligature ventilation grille reduces the ligature risk when installed over the top of standard ventilation grilles.



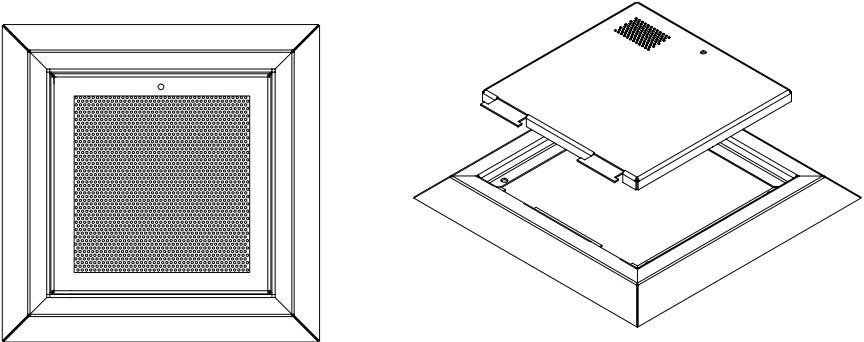
### Benefits

- IP3x Grille (2mm holes at a 4mm staggered pitch) allow air to pass through.
- Robust, full frame provides easy access for cleaning and maintenance.
- Powder coated finish-white as standard (other colours available)
- Manufactured from 1.5mm Zintec Steel. 1.5mm Magnelis coated steel is also available when installing in wet areas.
- Security fixing is used to provide access to authorised staff.
- Exclusive BioCote® antimicrobial protection.

### Sizes available:

| Size        | Product Code |
|-------------|--------------|
| 150 x 150mm | ALG150150    |
| 200 x 200mm | ALG200200    |
| 250 x 250mm | ALG250250    |
| 300 x 300mm | ALG300300    |
| 350 x 350mm | ALG350350    |
| 400 x 400mm | ALG400400    |
| 450 x 450mm | ALG450450    |
| 500 x 500mm | ALG500500    |
| 550 x 550mm | ALG550550    |

\*Bespoke sizes available





## Further Reading

### ◀ Guide To Anti-Ligature eBook

When planning the construction or refurbishment of a space within a mental health environment-or anywhere that occupies vulnerable individuals-it is essential that measures are put in place within the design process to reduce ligature risks.

This document is aimed to educate anyone involved in the design and specification of a setting that is occupied by vulnerable individuals at risk of suicide or self-harm.



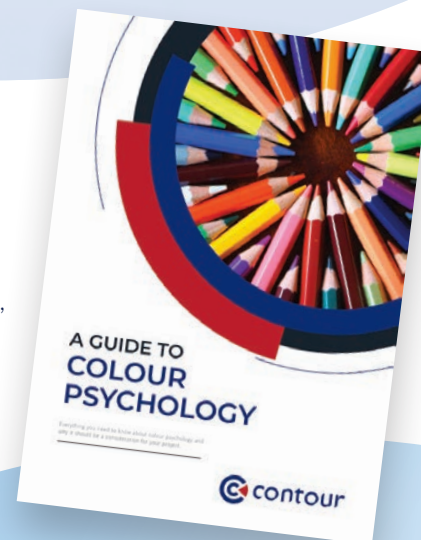
### Guide To Colour Psychology eBook ▶

The choice of colour can greatly impact on an individual's mental state, with studies suggesting that certain colours can help aid the healing and rehabilitation process.

Coloured radiators can be used strategically within children's hospitals, autism wards, SEN schools and mental health environments to support the interior design of the space and make users more comfortable.

This document focuses on the following:

- The Science Of Colour Psychology
- The Psychology Behind Colour Preference
- Physical Reaction To Colour
- Colour Association



### ◀ Keeping Heating Safe in Education eBook

Make your next education project the safest it can be!

If you're specifying for a school or nursery, selecting the right heating solution is essential. Not only are children vulnerable to high temperature surfaces, in some environment's radiators can quickly and easily become damaged.

In this eBook, we provide an extensive guide to safe heating, highlighting the risks faced in these educational environments, what needs to be considered and the cost-effective solutions that can instantly increase safety and hygiene.



## Calculating Alternative Delta T Requirements

### Method

- Add the flow water temperature and the return water temperature together.
- Divide the answer from a. by 2.
- From the answer b. subtract the room temperature. This gives you your "Delta T" temperature.
- Select the closest Delta T value to yours from the table, then multiply the corresponding factor by the output provided for the particular radiator to obtain the output for your calculated Delta T value.

| Delta T | Factor |
|---------|--------|
| 5°C     | 0.0501 |
| 10°C    | 0.1234 |
| 15°C    | 0.2091 |
| 20°C    | 0.3039 |
| 25°C    | 0.4061 |
| 30°C    | 0.5148 |
| 35°C    | 0.6290 |
| 40°C    | 0.7482 |
| 45°C    | 0.8720 |
| 50°C    | 1.0000 |
| 55°C    | 1.1319 |
| 60°C    | 1.2675 |
| 65°C    | 1.4065 |
| 70°C    | 1.5487 |
| 75°C    | 1.6940 |

| Temperature      | Working Out Delta "T" |                        |                 |
|------------------|-----------------------|------------------------|-----------------|
| Flow Plus Return | Div by 2              | minus room temperature | Equals Factor T |
| 80 + 70 = 150    | 75                    | 20 Degrees             | T55             |
| 85 + 75 = 165    | 80                    | 21 Degrees             | T59             |
| 70 + 50 = 120    | 60                    | 21 Degrees             | T39             |



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**[contourheating.co.uk](http://contourheating.co.uk)**

Providing safer and more hygienic heating solutions is Contour's aim.

From anti-ligature options that instantly protect the most vulnerable people in society, to low surface temperature products that are designed with ease of cleaning in mind, Contour has an extensive range for a variety of public and privately owned environments.

If you've got an old, outdated, or damaged heating system in place, and your concerned about the safety of those in the surrounding environment, speak to Contour today.