

wilo

Simple to install, simply ready for the future

Wilo-Yonos PICO,
Wilo-Stratos PICO, Wilo-Stratos

Information for installers

ErP
READY

APPLIES TO
EUROPEAN
DIRECTIVE
FOR ENERGY
RELATED
PRODUCTS



Everyone's talking about saving electricity

We take action

Advantages on all sides: for the environment, your customers and yourself.

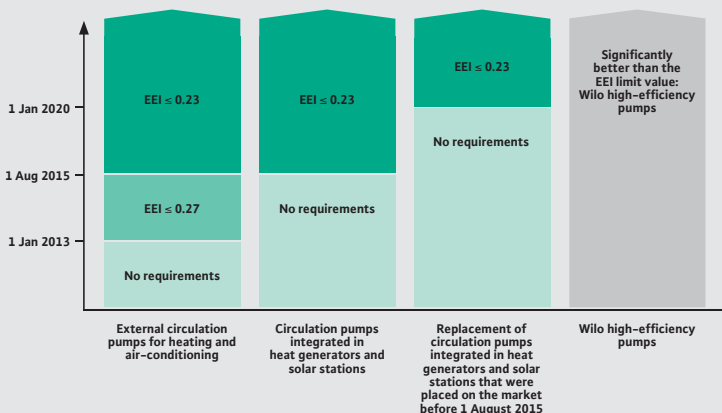
The Government have now readjusted the permitted energy consumption values for glandless circulation pumps. Pumps without speed control will no longer be allowed to be placed on the market by their manufacturers as of 2013. And that's exactly how it should be.

High-efficiency pumps consume up to ten times less energy. This is good for the environment and your customers' electricity bills, and also opens up new sales chances for you as an installer.

Your partner for ErP-compliance

If you begin to talk about energy efficiency to your customers now. Wilo will support you in this. Our high-efficiency pumps are future proof and already meet the requirements stipulated in the ErP Directive (2009/125/EC and in compliance with regulations (EC) 641/2009 and (EU) 622/2012. This means you do not have to bother with the details of the Directive.

The ErP Directive for glandless circulation pumps (Regulation (EC) 641/2009 and (EU) 622/2012) is setting increasingly stricter efficiency limit values. With Wilo you meet all of them in one go.



EEI = Energy Efficiency Index according to Regulations (EC) 641/2009 and (EU) 622/2012 of the EU Commission (is determined for different power consumptions within a load profile by comparing it to an average reference pump)

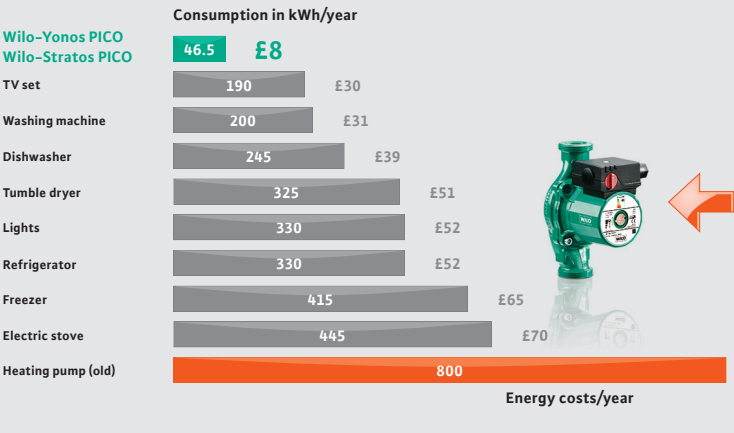
Interesting ErP facts:

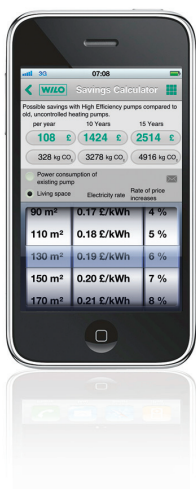
- ErP denotes the European Ecodesign Directive for “energy-related products”.
- The current energy-efficiency classification (energy label A–G) will be dropped as of 1 January 2013.
- For heating circulation pumps the ErP will be implemented in three stages as of 2013.
- This means that 95% of all heating circulation pumps without speed control that are still available for purchase will be banned from the market as of 2013.

Two powerful arguments: Save costs, protect the environment

Up to £116 potential yearly savings

With Wilo you will appeal to both your customers' common sense and sense of responsibility. After all, with high-efficiency pumps homeowners and residents can significantly reduce their household expenses – by up to £116 per year. Switching over to these pumps is a move that also pays off in terms of the environment. A reduction in European energy demand amounting to 23 TWh will be possible by 2020. This corresponds to the entire electricity consumption of Ireland and will result in CO2 emissions across Europe being reduced by 11 million tonnes.





Individual savings calculation:

The Wilo Assistant is the efficient Wilo app for smartphones. It allows you to calculate your customers' energy and CO₂ savings on an individual basis – in seconds flat.



£124

The calculations are based on an average electricity price of 19 euro cents/kWh.

Calculation basis for household consumers and old heating pumps:

Annual energy requirement according to "Stiftung Warentest" (similar to Consumer Reports), Sept. 2007.

Wilo-Yonos PICO and Wilo-Stratos PICO:

own calculations;
Assumptions: 6,000 operating hours per year,
1 m³/h volume flow, 1.5 m delivery head.

The "Wilo Assistant" can be found here: [Apple AppStore](#) [SM](#)



Android
Google Play
Store



My tip:

In tight installation spaces the Wilo angle plug with a cast two-metre connection cable and free cable end will help you.



Wilo-Yonos PICO:

Quick installation, easy operation

Field of application:

As a standard high-efficiency pump for hot-water heating systems of all types in single and two-family houses, air-conditioning applications and industrial circulation systems.

Special features:

The Wilo-Yonos PICO focuses on the main functions, making it particularly easy to operate and install.

Using the Wilo-Connector the pump can be connected electrically in next to no time without the need for tools.



The Wilo-Star-RS step switch



The Wilo-Yonos PICO 3-step-function



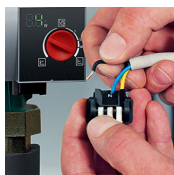
LED display for setting the setpoint and displaying power



Automatic pump venting function

Product advantages:

- Standard high-efficiency pump
- Tool-free electrical connection using the Wilo-Connector
- Unique pump venting function
- LED display for setting the setpoint and displaying current consumption
- Simple adjustment when replacing an uncontrolled standard pump with preselectable speed stages, for example Wilo-Smart-A
- And needless to say: ErP-compliant



Connect, join, start

More on Wilo-Yonos PICO:
www.wilo.co.uk/installer

Good to know:
The Wilo-Stratos PICO is standard-equipped with a thermal insulation shell.



Wilo-Stratos PICO:

High efficiency with Dynamic Adapt

Field of application:

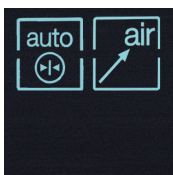
As a premium high-efficiency pump for hot-water heating systems of all types in single and two-family houses, air-conditioning applications and industrial circulation systems.

Special features:

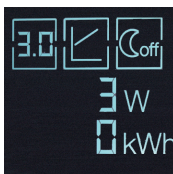
The Wilo-Stratos PICO has been awarded with the approval mark for “Energy-efficient system technology” by TÜV SÜD (certificate can be found at www.wilo.com/legal). With the Wilo-Stratos PICO, energy savings of up to 90% are possible in comparison to uncontrolled pumps, resulting in a particularly quick amortisation. Dynamic Adapt allows the pump to continuously adapt to the requirements of the heating system during short control intervals.



Connect, join, start



Display of the Dynamic Adapt function and unique venting action.



Always in sight: current and total power consumption

Product advantages:

- Premium high-efficiency pump
- Tool-free electrical connection using the Wilo-Connector
- Unique pump venting routine
- Large LC display for showing current power consumption and the cumulative kWh
- Dynamic Adapt for continuous self-adjustment during short control intervals
- And needless to say: ErP-compliant

More on Wilo-Stratos PICO:
www.wilo.co.uk/installer

A perfect team:
the Wilo-Stratos and Wilo-IR-Stick
Extend the Wilo-Stratos with additional functions
provided by wireless data exchange via USB stick,
e.g. remote control, statistics, analysis, settings and
data storage.



Wilo-Stratos:

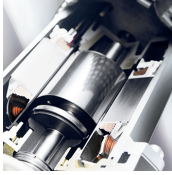
Powerful and suitable for universal use

Field of application:

As a premium high-efficiency pump for hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits and industrial circulation systems. Ideal for professional building management.

Special features:

The Wilo-Stratos has been awarded with the approval mark for “Energy-efficient system technology” by TÜV SÜD (certificate can be found at www.wilo.com/legallt) impresses with its universal application possibilities, for instance in cooling and air-conditioning systems with temperatures up to $-10\text{ }^{\circ}\text{C}$. The proven “red-button technology” makes installation and commissioning easier.



Left photo: the “red-button technology” display that can be adjusted regardless of position

Right photo: the plastic can prevents eddy-current losses.



Universal modular, integrated bus connection concept

Product advantages:

- Premium high-efficiency pump
- Can be used in heating, cooling and air-conditioning systems from -10°C to $+110^{\circ}\text{C}$
- Ideal for commercial properties
- Simple installation and commissioning thanks to “red-button technology”
- Communication-capable for building automation in all system environments thanks to retrofittable interface modules
- And needless to say: ErP-compliant

Technical data

Wilo-Yonos PICO,
Wilo-Stratos PICO,
Wilo-Stratos.



Equipment

Wilo-Yonos PICO

Drive system	Blocking-current proof EC motor
Hydraulic performance range	Delivery head H max. = 7.6 mVolume flow Q max. = 4.8 m ³ /h
Control	Differential pressure, constant: Δp -cDifferential pressure, variable: Δp -v
Venting	Venting function
Display	LED display
Electrical connection	Wilo-Connector: 1~230 V, 50/60 Hz
Protection class	IPX2 D
Fluid temperature range	-10 °C to +95 °C
Consumption indication	Current in W
Power consumption min./max.	4 W / 40 W
Thermal insulation shell	Optional



Wilo-Stratos PICO

Blocking-current proof EC motor

Delivery head H max. = 6 m
Volume flow Q max. = 3.5 m³/h

Differential pressure, constant: Δp -c
Differential pressure, variable: Δp -v
Dynamic Adapt

Venting routine

LC display

Wilo-Connector: 1~230 V, 50/60 Hz

IPX4 D

+2 °C to +110 °C

Current in WCumulative kWh

3 W / 40 W

As standard

Wilo-Stratos

Blocking-current proof EC motor

Delivery head H max. = 13 m
Volume flow Q max. = 62 m³/h

Differential pressure, constant: Δp -c
Differential pressure, variable: Δp -v
Differential pressure, temperature-controlled: Δp -t

-

LC display

1~230 V, 50/60 Hz

IPX4 D

-10 °C to +110 °C

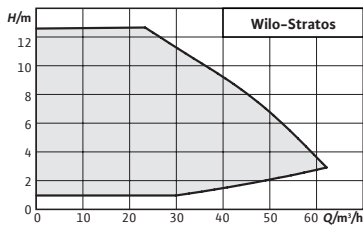
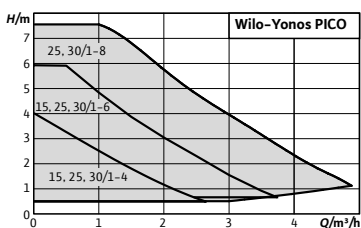
Can be read off via the IR-Stick/
bus modules

9 W / 1,150 W

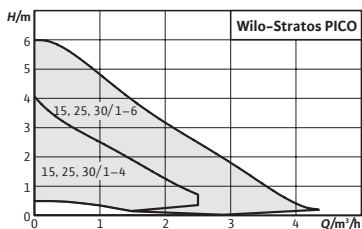
As standard

Replacement guide

Current pump		Replacement pump
<i>Wilo-Star-RS, Wilo-Star-E/EP, Wilo-Stratos ECO</i>	<i>Grundfos Alpha, UPE and UPS</i>	
15/4(1-3)	15-20(25)(30)(40)-130	15/1-5
15/5(6)(1-5)	15-50(60)-130	15/1-6
25/4(1-3)-130	25-20(25)(30)(40)-130	25/1-5 130
25/5(6)(1-5)-130	25-50(60)-130	25/1-6 130
25/2(4)(1-3)	25-20(25)(30)(40)	25/1-5
25/5(6)(1-5)	25-50(60)	25/1-6
30/2(4)(1-3)	32-20(25)(30)(40)	30/1-5
30/5(6)(1-5)	32-20(30)(40)	30/1-6



see right side



More on the replacement guide:
www.wilo.co.uk/installer

Current pump			Replacement pump
<i>Wilo-TOP-S</i>	<i>Wilo-TOP-E</i>	<i>Grundfos UPS, UPE and Magna</i>	<i>Wilo-Stratos</i>
		25-40	25/1-4
25/5		25-50, 25-60	25/1-6
25/7	25/1-7	25-80	25/1-8
		25-100	25/1-10
30/4		32-40	30/1-4
30/5		32-50, 32-60	30/1-6
30/7	30/1-7	32-55, 32-80	30/1-8
		32-80, 30-100	30/1-10
30/10	30/1-10	40-80, 42-50	30/1-12
		32-80 F, 32-100 F	32/1-10
		32-60 F, 32-80 F, 32-120 (F), 32-120 F	32/1-12
40/4	40/1-4	40-30 F, 40-50 F, 42-50 F, 40-60 F	40/1-4
40/7		40-60, 40-120, 42-80 F, 40-120 F	40/1-8
		40-80, 40-100 F	40/1-10
40/10	40/1-10	40-120, 40-120 F	40/1-12
50/4	50/1-6	50-30, 50-60 (F)	50/1-8
50/7	50/1-7	50-60, 50-80 (F), 50-120 F	50/1-9
		50-80, 50-100	50/1-10
50/10	50/1-10	50-120 F, 50-120 (F)	50/1-12
65/7	65/1-7	65-30 F, 65-60, 65-60 (F), 65-60 F	65/1-9
65/10, 65/13	65/1-10	65-120 (F), 65-120 F	65/1-12
80/7, 80/10	80/1-10	80-30 F, 80-60 F, 80-120	80/1-12
100/10	100/1-10	100-30 F, 100-60 F	100/1-12

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**“Everything I need to know about ErP
is right here at Wilo.”**

