

ATEX Explosion-Proof Diaphragm Vacuum Pumps

Varying construction materials to meet your chemical resistance needs and ATEX compliance

- Three materials of construction offer a solution to meet your budget
- Head design greatly reduces dead space to provide superior vacuum performance
- Oil-free pumps keep your pumped medium clean

We offer an extensive range of head/diaphragm wetted parts—from PVDF-coated aluminum, solid PTFE, 316 stainless steel, to aluminum and nitrile (available online). The PTFE heads are constructed of solid PTFE resin. The molded diaphragm has a thick PTFE-resin coating to provide the best resistance available to the toughest corrosive vapors. The stainless steel heads are machined from wrought 316 stainless steel, resulting in surfaces that are smooth, leaktight and free of occlusions.

The single-head pumps offer moderate flow and vacuum or pressure performance. The pumps with twin heads in parallel offer higher flow for your sampling requirements.

What's included: fitted with conduit box for wiring the pump.



78165-72

Specifications

Duty cycle: continuous

Noise rating: approx 40 dB max

Approval: II 2G EEx IIB T4



Catalog number	Head configurations	Free-air capacity cfm (L/min)	Max vacuum Torr (mbar abs)	Operating pressure (bar g)	Motor VAC Hz	Pneumatic connections for tube ID	Dimensions (L x H x W)	Shpg wt lb (kg)	Price
PVDF-coated aluminum/PTFE pump									
SN-78165-72 SN-78165-73	Single	0.26 (7.5)	105 (140)	1.5 (21.8 psi)	115 230 60 50	G-1/8	8 3/16" x 5 1/16" x 4 13/16" (208.5 x 145 x 122 mm)	7.3 (3.3)	
Solid PTFE-resin pumps									
SN-78165-74 SN-78165-75	Single	0.46 (13)	40 (53)	1.5 (21.8 psi)	115 230 60 50	SN-1/4	10 1/2" x 7 3/16" x 7 3/16" (267 x 182 x 183 mm)	16.5 (7.5)	
SN-78165-76 SN-78165-77	Single	0.46 (13)	94 (125)	1.5 (21.8 psi)	115 230 60 50	SN-1/4	10 3/16" x 7 3/16" x 7 3/16" (274.5 x 182 x 183 mm)	16.5 (7.5)	
316 Stainless steel/PTFE pumps									
SN-78165-78 SN-78165-79	Single	0.53 (15)	75 (100)	2.5 (36.3 psi)	115 230 60 50	G-1/8	10 1/2" x 6 3/4" x 7 3/16" (265 x 171.5 x 183 mm)	19.6 (8.9)	
SN-78165-80 SN-78165-81	Dual/parallel	0.92 (26)	75 (100)	2 (29 psi)	115 230 60 50	G-1/4	12 1/16" x 8 1/16" x 7 3/16" (306 x 220 x 183 mm)	25.1 (11.4)	
SN-78165-82 SN-78165-83	Single	0.95 (27)	75 (100)	4 (58 psi)	115 200/346 60 50	G-1/4	18 5/16" x 6 5/16" x 9 1/2" (465 x 160 x 242 mm)	59 (26.8)	
SN-78165-84 SN-78165-85	Dual/parallel	1.69 (48)	75 (100)	4 (58 psi)	115 200/346 60 50	G-1/4	20 3/16" x 10 1/4" x 9 1/2" (516 x 260 x 242 mm)	68.6 (31.2)	
SN-78165-86 SN-78165-87	Single	4.24 (120)	86 (115)	1 (14.5 psi)	115 200/346 60 50	G-1/2	21" x 7 3/16" x 10 7/8" (532.5 x 185 x 275.5 mm)	120 (54.9)	
SN-78165-88 SN-78165-89	Dual/parallel	7.69 (220)	86 (115)	1 (14.5 psi)	115 200/346 60 50	G-1/2	21 5/8" x 14 7/16" x 11 3/8" (549 x 366.5 x 288 mm)	153 (69.5)	

Note: Aluminum and nitrile pumps offered online.

Stainless Steel Bellows Vacuum Pump/Compressors

Hermetically sealed pump head minimizes leakage—only 10⁻⁴ mL/second for helium

- Ideal for use with pollution control and measuring instruments, gas analyzing equipment, and medical instrumentation
- Thermal overload switch protects your pump system

What's included: 6-ft (1.8-m) cord with U.S. plug on 115 VAC models; European plug on 230 VAC model.

Specifications

Wetted parts: 304/312 stainless steel (SS) head, 350 SS bellows, 301 SS valves, PTFE gasket

Motor: TEFC, shaded-pole

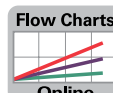
Duty cycle: continuous

Noise rating: 71 dB(A)

Port size

Model 07065-20: 1/8" NPT(F)

Models 07065-80 and -82: 1/4" NPT(F)



07065-80

These versatile, maintenance-free units can serve as either vacuum pumps or compressors.

Catalog number	Free-air capacity	Maximum vacuum	Maximum pressure	Maximum temp	hp	Power (VAC, Hz)	Amps	Dimensions (L x W x H)	Price
Low-capacity bellows vacuum pump/compressor									
SN-07065-20	0.22 cfm (6.2 L/min)	13" Hg (330.2 torr)	10 psi (0.69 bar)	105°F (41°C)	1/40	115, 50/60	1.4	6 1/4" x 3 7/8" 4 1/4"	
High-capacity bellows vacuum pump/compressor									
SN-07065-80	1.4 cfm (39.2 L/min)	23" Hg (584.2 torr)	25 psi (1.72 bar)	105°F (41°C)	1/10	115, 50/60	0.65	8 3/4" x 4" x 7 1/2"	
SN-07065-82						230, 50	0.32		

SN-03300-96 Compression fitting,
316 SS. 1/8" NPT(M) x 1/8" OD tubing.
For model 07065-20.....

SN-03301-06 Compression fitting,
316 SS. 1/4" NPT(M) x 1/4" OD tubing.
For models 07065-80, -82.....