

Вакуумные насосы Venturi, Air Cadet, Air Admiral VPS-200, RE3022C, PVac, Air Cadet PRO, аспираторы MiniVac, EVac

Технические характеристики

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Cole-Parmer®

Cole-Parmer Vacuum Aspiration Systems

Safe and convenient handling of liquid waste disposal

- Quickly switch between manual aspiration and continuous aspiration, reducing hand fatigue
- Collection bottle outlet with hydrophobic filter prevents aerosol and liquid contamination
- Brushless motor offers low noise and long life
- Parts in contact with liquids can be autoclaved
- Easily use in different applications—vacuum level with indicator light is adjustable
- Level detection system prevents bottle overfill (on 4-L model only)



Applications

Removal of:

- Supernatants during nucleic acid extraction
- Culture media
- Wash solutions from immunoassay well plate
- Buffers of Western blot strips
- Excess liquid from slides and petri dishes

13050-51

Cole-Parmer Vacuum Aspiration Systems

- Easy to disassemble and clean
- Ideal tool to avoid lab air contamination and protect personnel safety
- Several adapters are included to fit a multitude of laboratory supplies

Cole-Parmer vacuum aspirators provide convenient handling of liquid waste disposal in a compact and easy-to-use self-contained system.

These vacuum aspirators are great replacements for the common vacuum pump, for all kinds of liquid waste recovery, especially biological, chemical and radioactive liquids. Ideal for use in cell culture, RNA/DNA extraction, microplate waste removal, and any other separation of liquids and solids or liquid recovery.

Available in 2- and 4-L models. The 4-L model features level detection which prevents bottle overflowing.



13050-50

Ordering Information



Pumping speed	Vacuum range	Aspiration rate	Bottle size	Cap type	Noise level	Dimensions of vacuum base	Power	Model number	Item number
15 L/min (air)	0 to 600 mbar (adjustable)	17 mL/s	2 L	Barbed fittings cap	55 dB ± 5 dB at a distance of 1 meter	18 x 24 x 34 cm (7.09" x 9.45" x 13.39")	100 to 240 VAC, 50/60 Hz, 0.5 A	VAS-200-2L	13050-51
			4 L	Quick-release cap		18 x 24 x 45 cm (7.09" x 9.45" x 17.72")		VAS-200-4L	13050-50

What's included:

Base vacuum unit, vacuum bottle, aspiration handle, hanging bracket, cap (quick release couplings cap for 4-L model or barbed fittings cap for 2-L model), tubing for connection base to cap and cap to hand operator, aspiration handle, single-channel adapters (with 200 µL and 1.0 mL tip), single-channel needle adapter (4 sizes), eight-channel adapter, eight-channel needle adapter, power adapters (EU, UK, North America), and level detection sensor cable (on 4-L model).



Cole-Parmer MiniVac Waste Aspiration System, 1 L



Cole-Parmer – Item # EW-04396-19

Safer than glass waste vessels

- Use as stand-alone waste collection system or as an overflow vessel
- Don't worry about glass bottle breakage—system is composed entirely of plastic
- Collect fluid in the basin in case of overflow, crack, or leak
- Clean up all components quickly and easily with 70% IPA
- Connect to your existing house vacuum line

Specifications & Description

- | | |
|---------------|---|
| • Material | Polystyrene, polypropylene, PETG, and Silicone (tubing) |
| • Closure | Bottle cap with 43 mm thread |
| • Description | Waste Aspiration System, 1 L |

INCLUDES

Reservoir basin and safety stand, tubing, barbed fitting cap, and polystyrene bottle with barbed cap.

MORE ABOUT THIS ITEM

These compact waste aspiration systems replace the need for glass waste containers. Durable components are easily cleaned with 70% isopropyl alcohol. Station may be used as a secondary overflow to an existing system, or as compact stand-alone unit—simply connect in line with the primary container, or to a house or pump supplied vacuum line. The silicone tubing is 5 mm ID x 9.5 mm OD x 1800 mm length.

Cole-Parmer RE3022C Diaphragm Vacuum Pump; 230 VAC

Cole-Parmer – Item # EW-99966-96

Specifications & Description

- Max Flow Rate (Liters/min)21
- Max Vacuum (mbar)12
- Power (VAC)230
- Power (Hz)50
- Shipping Weight (kg)9.6
- Height (mm)223
- Depth (mm)352
- Width (mm)172
- DescriptionDiaphragm Vacuum Pump; 230 VAC
- Warranty3 Years



MORE ABOUT THIS ITEM

Use this compact diaphragm vacuum pump for chemical laboratory vacuum generation, especially well suited to rotary evaporation. Vacuum regulator with gauge and adjustment knob allows you to create ideal vacuum conditions in the lab. Oilless pump with integrated moisture protection is low maintenance.

Cole-Parmer PVac™ Portable Vacuum System

Cole-Parmer – Item # EW-04397-07 Specifications & Description



- Max Flow Rate (CFM)0.14
- Max Flow Rate (Liters/min)4
- Max Vacuum (in Hg)14
- Max Vacuum (mbar)475
- Power (VAC)100 to 240
- Motor TypeDiaphragm
- Stages1
- Height (in)5.75
- Depth (in)5.75
- Width (in)5
- Height (cm)14.7
- Depth (cm)14.7
- Width (cm)12.7
- DescriptionPortable Vacuum System
- Warranty3 Years



INCLUDES

- 1 Each
Cole-Parmer EVac™ Tubing, Bottle Cap to Hand Operator, 1800 mmEW-04397-55

MORE ABOUT THIS ITEM

Combine this oil-free, diaphragm vacuum pump with a collection bottle to create a portable waste aspiration system and rapidly remove supernatant from a variety of cell culture or multiwell plates and dishes. The vacuum system can also be used as a stand-alone pump for vacuum-assisted filtration applications like bottletop and vacuum manifold filtration.

Compact size makes the vacuum system easily portable and allows for placement in an individual workstation or under a hood. A 0.45- μm hydrophobic, in-line filter protects from overfilling or fluid aspiration into the pump—ideal for filtering hazardous samples too dangerous for house lines, and as the vacuum source for waste aspiration systems. Couple with any glass or plastic collection bottle or flask*—like the Mini-Vac waste collection bottle—and empty a 2-liter bottle of waste in 40 seconds!

The HandE-Vac handheld aspirator (included) lets you control the vacuum pressure and speed by manually adjusting aperture button. An adapter for a single channel pipette is included; order different adapters for aspiration of multiwell plates and Pasteur pipettes.

*Collection bottle used with the P-Vac vacuum system should not exceed 2 liters.

Cole-Parmer® Air Cadet® PRO Diaphragm Pumps







Exceptional performance for the price!

- General purpose pumps are great for filtration or vacuum drying
- At 45 dB(A) it's quieter than a conversation
- Long service intervals reduce maintenance costs

Designed for general laboratory applications, these pumps will give you thousands of hours of worry-free operation. Max vacuum of 29.8 in Hg. Pumps with gas ballast will allow purging of any contaminants that may condense in the pump head.

A standard Air Cadet PRO will work for all your basic vacuum needs including filtration and degassing. For demanding applications requiring solvents or corrosive chemicals use the chemical duty Air Cadet PRO

item	Free-Air Capacity (CFM)	Power (VAC)	Wetted Parts
 EW-07530-13	0.6	115	Aluminum, Viton®, Polyamide, PVC

item	Free-Air Capacity (CFM)	Power (VAC)	Wetted Parts
 EW-07530-23	0.6	115	PTFE, Kalrez®, ETFE
 EW-07530-46	0.6	230	Aluminum, Viton®, Polyamide, PVC
 EW-07530-56	0.6	230	PTFE, Kalrez®, ETFE

Cole-Parmer Aspirator Pump, 18 L/min, 9.5l Bath, 230 VAC



Cole-Parmer – Item # EW-35031-10

- Built-in circulating pump and water tank make these units portable and eliminate water waste
- Simple to operate—just fill the tank and turn on the pump
- Circulating pump continuously forces water across a set of aspirators—operation is quiet,
- Clean and efficient
- 3 year warranty

Specifications & Description

- Wetted Parts Nickel-coated Brass, Polypropylene, Silicone, 304 Stainless Steel
- Free-Air Capacity (CFM)0.6
- Free-Air Capacity (LPM)17
- Free-Air Capacity (LPH)1020
- Max Flow Rate (CFM)0.63

- Max Flow Rate (Liters/min)18
- Max Vacuum (in Hg)29.5
- Max Vacuum (mbar)14.2
- Max Vacuum (mm Hg)10.7
- Max Vacuum (torr)10.7
- Tank Size (Qt)10.04
- Tank Size (oz)321.16
- Tank Size (Liters)9.5
- Tank Size (Gal)2.51
- Oil Capacity (oz)321.16
- Oil Capacity (Liters)9.5
- Port Size8 mm hose barb
- Power (VAC)230
- Power (amps)0.35
- Height (in)16
- Width (in)11
- Height (cm)40.64
- Width (cm)27.94
- Height (mm)406.4
- Width (mm)279.4
- DescriptionAspirator Pump, 18 L/min, 9.5l Bath, 230 VAC
- Warranty3 Years



MORE ABOUT THIS ITEM

Pump features two metal venturi aspiration jets to create the vacuum with a built-in check valve to prevent back-flow of water into the system. Tank features a drain port and spigot for easy water changes. Order the optional vacuum gauge and regulator to monitor and control vacuum level.

Cole-Parmer EVac™ Aspirating System with Hose-Barb Cap, 4 L

Cole-Parmer – Item # EW-13050-31

Specifications & Description

- | | |
|------------------------------|--|
| • Number of Bottles Accepted | 1 |
| • Display Type | None |
| • Material | Polypropylene bottle and cap, stainless steel vacuum pump base |
| • Power (VAC) | 100 to 240 |
| • Power (Hz) | 50/60 |
| • Sterile | No |
| • Capacity (mL) | 4000 |
| • Description | Aspirating System with Hose-Barb Cap, 4 L |
| • Warranty | 3 Years |



INCLUDES

pump base, 4-liter polypropylene bottle, cap with barbed couplings, tube set with filter, hand operator with single channel adapter for disposable tips, and universal power supply.

KEY FEATURES

- Keep clean—all components are autoclavable except the vacuum base
- Protect your vacuum pump—included filter prevents liquid aspiration into the pump
- Minimize down-time when collection bottle is full—additional bottles available
- Be safe—plastic bottles won't shatter if dropped
- Choose from model with a hose barb couplings cap or models with quick-release couplings cap and a collection bottle level sensor
- 3 year warranty

MORE ABOUT THIS ITEM

The E-Vac aspiration system is designed to collect critical or dangerous liquids. Waste is collected in the bottle through vacuum, and pressure-sensitive button controls the right amount of vacuum for your application. All parts, except the stainless steel base containing the pump, are fully autoclavable. Two hydrophobic filters help prevent liquids from getting into the pump and pump housing in the event of an overflow.

The HandE-Vac hand operator, included with both systems options, is designed to fit the E-Vac systems or any vacuum device currently available on the market. Set vacuum by manual adjustment of the aperture control button. Ergonomic design allows for fatigue-free aspiration. The hand operator can also be used with Pasteur pipettes or multi-well plates and dishes, additional adapters required and sold separately.

Full bottles can be swapped out and autoclaved with minimum of effort and new bottles replaced within seconds. All parts, except the stainless steel base containing the pump, are fully autoclavable.

Cole-Parmer® Accessories for Cole-Parmer® Water-Jet Aspirator Pumps



Extend the life of your Cole-Parmer Water-Jet Aspirator Pump

These replacement accessories are compatible with the Cole-Parmer Water-Jet Aspirator pumps, models 35031-00 and -10.

item	Free-Air Capacity (CFM)	Max Vacuum (in Hg)	Max Vacuum (torr)
 EW-35031-60			

item	Free-Air Capacity (CFM)	Max Vacuum (in Hg)	Max Vacuum (torr)
 EW-35031-74			

Cole-Parmer® Venturi Vacuum Pumps with Air Saver Technology



Minimizes compressed air usage –which saves you money!

- Vacuum level switch shuts off air supply when desired vacuum setting is reached
- Powered only by compressed air—no batteries or electrical connections
- Holds vacuum even if air supply is lost

The air saver circuitry is perfect for any lab or process application. Powered by compressed air only; the pneumatic vacuum switch is the brain behind the system that constantly monitors and controls the vacuum level. Eliminates the constant air loss and noise of most venturi vacuum pumps. Since it uses no electricity it is inherently intrinsically safe. The vacuum switch is adjustable from 0 to 30" Hg with a hysteresis of 3"Hg.

item	Free-Air Capacity (CFM)	Max Vacuum (in Hg)
 EW-78165-61	1.2	28
 EW-78165-71	0.2	28

Cole-Parmer® Vacuum/Pressure Pumps Coated with PTFE



Wetted parts are coated with PTFE to handle your toughest applications

- Lightweight aluminum construction and compact size
 - Pumps with gauges and regulators give you more control of your vacuum/pressure applications
- These pumps are ideal for benchtop applications such as vacuum filtration. Pumps include suction cup feet and a 6-ft power cord with built-in switch (the 115 VAC models have grounded plug, 220 VAC and DC models have stripped ends).

item	Free-Air Capacity (CFM)	Max Vacuum (in Hg)	Description
 <p data-bbox="129 1603 300 1637">EW-79200-00</p>	0.75	23.2	PTFE-Coated Vacuum Pump, Gauge/Reg/Valve; 0.75 cfm/23.2"Hg-25psi/115V

item	Free-Air Capacity (CFM)	Max Vacuum (in Hg)	Description
 EW-79200-10	1.2	22.9	PTFE-Coated Vacuum Pump, Gauge/Reg/Valve; 1.2 cfm/22.9"Hg-20psi/12VDC
 EW-79200-30	0.75	23.2	Vacuum/pressure diaphragm pumps, PTFE-coated wetted parts, 0.75 cfm, 115 VAC
 EW-79200-35	0.55	22	Vacuum/pressure diaphragm pumps, PTFE-coated wetted parts, 0.55 cfm, 220 VAC
 EW-79200-40	1.2	22.9	Vacuum/pressure diaphragm pumps, PTFE-coated wetted parts, 1.2 cfm, 12 VDC

Compact Venturi Vacuum Pump

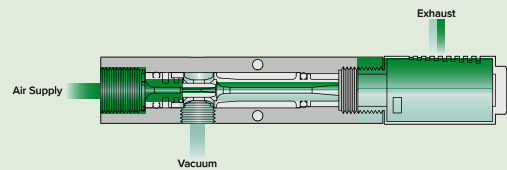
78165-00



The 78165-00 compact venturi vacuum pump is highly efficient, dirt tolerant, and includes a silencer for quiet operation. Lightweight and compact, they can be easily mounted close to the vacuum point for fast response.

Principles of Operation

Vacuum is produced by forcing compressed air through a limiting orifice (nozzle). As the air exits the orifice, it expands, increasing in velocity to supersonic speed before entering the venturi section (diffuser). This creates a vacuum at the vacuum inlet port, located between the nozzle and diffuser. The nozzle and diffuser combine to create a venturi vacuum cartridge.



Ideal Applications:

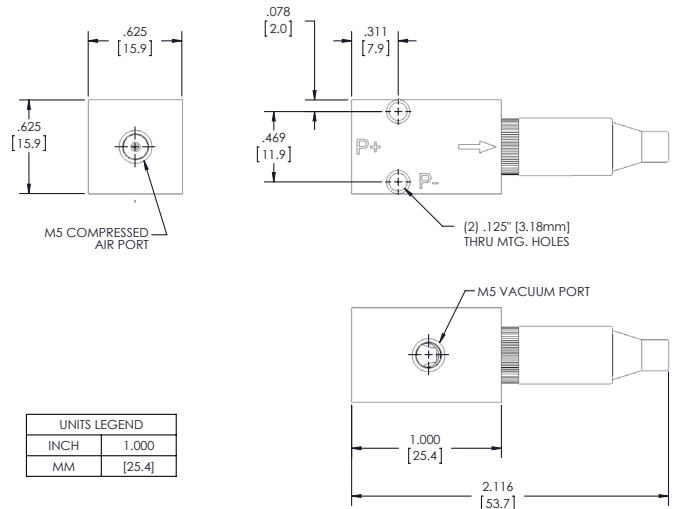
- Pick and place small parts
- End-of-Arm-Tooling/Robotic systems
- Vessel evacuation
- Vacuum clamping/holding fixtures

Features/Benefits:

- Small footprint for tight spaces
- Mounts easily—square body, compact and lightweight
- Fast response—installs close to vacuum point
- Reliable—trouble-free operation
 - Straight-through design, non-clogging
 - No moving parts to wear or clog
 - No flap valves to stick open
 - No maintenance
 - No downtime

Performance Level Designation:

“H” 0-28”Hg [0 to 948mbar] for high vacuum/hi flow applications



Item #	Air Consumption SCFM (l/min)	Vacuum Flow - SCFM (l/min) vs. Vacuum Level - % Vacuum										
		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	93%
78165-00	0.8 (22.7)	0.5 (14.2)	0.38 (10.8)	0.32 (9.1)	0.3 (8.5)	0.27 (7.6)	0.23 (6.5)	0.2 (5.7)	0.13 (3.7)	0.05 (1.4)	0.02 (0.6)	0
Item #	Air Consumption SCFM (l/min)	Evacuation Time in Seconds based on 1 Cubic Foot Volume (1 Liter Volume) vs % Vacuum										
		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	93%
78165-00		0	15 (0.5)	29.8 (1.1)	50.6 (1.8)	74.5 (2.6)	102.8 (3.6)	135.9 (4.8)	183.2 (6.5)	245.9 (8.7)	410.2 (14.5)	790.8 (27.9)



Cole-Parmer® VPS-200 Series Air Vacuum Pumps

- Compact size and integral handle make pumps easily transportable
- Economical vacuum pumps serve as a pressure or vacuum source with an excellent price-to-performance ratio
- Low-friction piston runs cool and quiet for a long service life with consistent performance
- 1-year warranty



Vacuum/Pressure Pump
79202-00 | 79202-05

Cole-Parmer VPS-200 Series Air Vacuum Pumps

This portable vacuum pump is designed for portability and versatility with a tough, lightweight plastic housing and integral carrying handle. The long-wearing motor delivers performance characteristics suitable for a wide range of applications. Wetted parts include glass-filled PA66, gas phase rubber, PTFE, TPU, and acetal.

What's included: 1.8 m (6 ft) cord with US standard plug on 115 VAC models. IEC socket with 1.8 m (6 ft) EU and UK mains lead with plug on 230 VAC models.

NOTE: Do not pump liquids or immerse pump. Avoid organic, basic and acidic vapors.



Vacuum Pump Station
79202-30 | 79202-35

Free air capacity	Maximum vacuum	Maximum pressure*	Port connections	Motor	Operating conditions	Dimensions	Power	Item number
VPS-200 Air Diaphragm Vacuum/Pressure Pumps								
10.5 L/min (0.37 cfm)	541 mm Hg (21.3 in Hg)	33 psig (2.27 bar)	¼" hose barb	1/11.5 hp (65 W) shaded pole	0 to 40 °C (32 to 104 °F); 10 to 90% RH noncondensing	18.4 x 10.9 x 21.5 cm (7.2" x 4.3" x 8.5")	115 VAC, 60 Hz	79202-00
8.8 L/min (0.31 cfm)	541 mm Hg (21.3 in Hg)	33 psig (2.27 bar)	¼" hose barb	1/11.5 hp (65 W) shaded pole	0 to 40 °C (32 to 104 °F); 10 to 90% RH noncondensing	18.4 x 10.9 x 21.5 cm (7.2" x 4.3" x 8.5")	230 VAC, 50 Hz	79202-05
VPS-200 Air Diaphragm Vacuum/Pressure Pump Stations with Vacuum Gauge and Regulator Valve								
10.5 L/min (0.37 cfm)	541 mm Hg (21.3 in Hg)	33 psig (2.27 bar)	¼" hose barb	1/11.5 hp (65 W) shaded pole	0 to 40 °C (32 to 104 °F); 10 to 90% RH noncondensing	18.4 x 10.9 x 21.5 cm (7.2" x 4.3" x 8.5")	115 VAC, 60 Hz	79202-30
8.8 L/min (0.31 cfm)	541 mm Hg (21.3 in Hg)	33 psig (2.27 bar)	¼" hose barb	1/11.5 hp (65 W) shaded pole	0 to 40 °C (32 to 104 °F); 10 to 90% RH noncondensing	18.4 x 10.9 x 21.5 cm (7.2" x 4.3" x 8.5")	230 VAC, 50 Hz	79202-35

*Intermittent duty: limit output to 33 psig – Continuous duty: limit output to 10 psig.

Cole-Parmer® VP-200 Series Vacuum/Pressure Pumps

- Unique cavity configuration minimizes dead space and air entrapment
- No maintenance needed—motors are brushless with sealed ball bearings
- Worry-free pumping with reduced stress, wear and heat buildup
- 1-year warranty



Vacuum/Pressure Pump
07532-40 | 07532-45

Cole-Parmer VP-200 Series Vacuum/Pressure Pumps

Single-head vacuum pumps can handle many tough vacuum/pressure applications and are economically priced. Pumps feature an all-plastic, convoluted diaphragm design constructed with a Noryl® pump head, FKM diaphragm, PTFE valves, and polyethylene (PE) adapters.

What's included: PTFE thread tape, two polyethylene 3/8" NPT(M) x 3/8" hose barb adapters, and a 1.8 m (6 ft), three-wire cord and plug. Power switch included on pump motor.

NOTE: Do not use metal fittings.



Vacuum/Pressure Pump
07532-40 | 07532-45

Free air capacity	Maximum vacuum*	Maximum pressured†	Port connections	Motor	Operating conditions	Dimensions	Power	Item number
17.2 L/min (0.61 cfm)	508 mm Hg (20 in Hg)	18 psig (1.24 bar)	3/8" NPT	1/50 hp at 1550 rpm	0 to 40 °C (32 to 104 °F); 10 to 90% RH noncondensing	20.3 x 10.2 x 10.8 cm (8" x 4" x 4.25")	115 VAC, 60 Hz	07532-40
14.7 L/min (0.52 cfm)				1/50 hp at 1300 rpm			230 VAC, 50 Hz	07532-45

*Intermittent or continuous duty.

†Intermittent duty: limit output to 18 psig – Continuous duty: limit output to 16 psig

Cole-Parmer VP-200 Series Vacuum/Pressure Pump Stations

- Get better results with minimal dead space
- Increase productivity—evacuate or pressurize two systems simultaneously with auxiliary port

Vacuum/pressure station features a built-in bronze and brass vacuum/pressure gauge and stainless steel (SS) regulator. Use the auxiliary port to evacuate or pressurize two systems simultaneously. Stations include a 22.9 cm (9") piece of vinyl tubing to connect pump to the regulator.

What's included: PTFE thread tape, two polyethylene 3/8" NPT(M) x 3/8" hose barb adapters, one polyethylene 1/4" NPT(M) x 3/8" hose barb adapter (for auxiliary port), and a 1.8 m (6 ft), three-wire cord and plug.

NOTE: Do not use metal fittings.



Vacuum/Pressure Pump Station
07532-80 | 07532-85

Free air capacity	Maximum vacuum*	Maximum pressure [†]	Port connections	Motor	Operating conditions	Dimensions	Power	Item number
17.2 L/min (0.61 cfm)	508 mm Hg (20 in Hg)	18 psig (1.24 bar)	3/8" NPT	1/50 hp at 1550 rpm	0 to 40 °C (32 to 104 °F); 10 to 90% RH noncondensing	24.4 x 20.3 x 22.2 cm (9.6" x 8" x 8.7")	115 VAC, 60 Hz	07532-80
14.7 L/min (0.52 cfm)				1/50 hp at 1300 rpm				07532-85

Intermittent or continuous duty.

[†]Intermittent duty: limit output to 18 psig – Continuous duty: limit output to 16 psig

Cole-Parmer VP-200 Series Vacuum/Pressure Pump – 12 VDC

- Get better results with minimal dead space
- Get long, reliable operation—continuous operation up to 18 psi for 4000 service hours
- Provides pumping with minimal stress and heat buildup

Note: Do not use metal fittings.

WARNING: This product can expose you to chemicals including BPA, lead, and phthalates, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov.



Vacuum/Pressure Pump 12 VDC
07532-25

Free air capacity	Maximum vacuum	Maximum pressure*	Port connections	Motor	Operating conditions	Dimensions	Power	Item number
17.2 L/min (0.61 cfm)	508 mm Hg (20 in Hg)	18 psig (1.24 bar)	3/8" NPT	TEFC	0 to 40 °C (32 to 104 °F); 10 to 90% RH noncondensing	19.7 x 8.9 x 11.4 cm (7.7" x 3.5" x 4.5")	12 VDC	07532-25

*Intermittent duty: limit output to 18 psig – Continuous duty: limit output to 16 psig.

По вопросам продаж и поддержки обращайтесь:

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