



Vacuum Pumps

Laboratory, Dry

Air CADET® Vacuum/Pressure Pumps

Unique cavity configuration minimizes dead space and air entrapment

- All-plastic, convoluted diaphragm design handles many vacuum/pressure applications and reduces stress, wear, and heat buildup
- Pumps are available with standard 115 or 230 VAC motor or a portable 12 VDC motor. Standard AC motors are service-free, brushless type with sealed ball bearings and thermal overload protection
- Increased chemical resistance with new Dacron® diaphragm



A
07531-40



Now include on/off power switch



B
07531-60



C
07530-85
OEM version

New Features

- Stronger, more chemically resistant diaphragms
- On/off toggle switch
- Higher pressure and deeper vacuum
- New design for easier pump maintenance

A Single-Head Pumps

Single-head pumps are economically priced and can handle many tough vacuum/pressure applications. Choose from three models to accommodate your electrical requirements.

What's included: thread tape made of PTFE resin, two polyethylene 3/8" NPT(M) x 3/8" hose barb adapters, and a 6-ft (1.8-m), three-wire cord; 115 VAC model includes a plug. Power switch included on pump motor (except for 07530-65). Pump with DC motor includes 12" leads with no ground.

Note: Do not use metal fittings with any Air Cadet pump.

B Dual-Head Pump

Dual-head pump gives you increased capacity over the single-head Air Cadet pumps. Use the two pump heads independently or connect them in series with 3/8" ID Tygon® vacuum tubing for up to 23" Hg vacuum.

What's included: thread tape made of PTFE resin, four polyethylene 3/8" NPT(M) x 3/8" hose barb adapters, and a 6-ft (1.8-m), three-wire cord; 115 VAC models include a plug. **Note:** Do not use metal fittings with any Air Cadet pump.

C OEM Vacuum/Pressure Pumps

These pumps have excellent vacuum/pressure capabilities with continuous operation up to 20" Hg or 18 psi. Long-life convoluted diaphragm minimizes stress and heat buildup. The head is made of non-contaminating plastics, Noryl® body, nitrile diaphragm, and PTFE valves. Pump will provide approximately 4,000 service hours.

What's included: pump with pigtailed. **Note:** Do not use metal fittings with any Air Cadet pump.

Specifications

Wetted parts

Models 07531-40, -45, -60 and 07530-65: Noryl® pump head, Dacron® reinforced Viton® diaphragm, valves of PTFE resin, and polyethylene (PE) adapters

Models 07531-80 and -85: Dacron reinforced Viton diaphragm, SS regulator, bronze/brass gauge, and PE adapters

Model 07531-25: Noryl pump head, nitrile diaphragm, valves of PTFE resin, and PE adapters

Model 07530-85: Noryl pump head, Dacron reinforced Viton diaphragm, valves of PTFE resin

Duty cycle: 6-hr cycle for diaphragms; motors are continuous duty (except 07531-25)

Catalog number	Free-air capacity cfm (LPM)	Max vacuum " Hg (Torr)	Max pressure psi (bar)	Max temp	Motor type		Noise rating	Port size	Power	Amps	Dimensions (L x W x H)	Price
					Type	hp						
A Single-head pumps												
SN-07531-40	0.54 (15.5)	23 (584.2)	23 (1.59)	95°F (35°C)	TEFC	1/45	72 dB(A)	3/8" hose barb	115 VAC, 60 Hz	1.2	8" x 4" x 5 1/2" (20.3 x 10.2 x 14 cm)	
SN-07531-45	0.45 (13)								230 VAC, 50 Hz	0.8		
B Dual-head pump												
SN-07531-60	1.1 (31) [†]	23 (584.2)	23 (1.59)	95°F (35°C)	TEFC	1/25	76 dB(A)	3/8" hose barb	115 VAC, 60 Hz	1.7	11 3/4" x 4" x 5 1/2" (29.8 x 10.2 x 14 cm)	
SN-07530-65 ^{††}	0.91 (26) [†]								230 VAC, 50 Hz	0.6	7 1/2" x 8" x 8 3/4" (19.1 x 20.3 x 22.2 cm)	
C OEM vacuum/pressure pumps												
SN-07530-85	0.6 (17)	20 (508)	18 (1.24)	95°F (35°C)	TEFC	1/45	72 dB(A)	3/8" NPT(F)	115 VAC	1.2	7 1/4" x 4" x 5 1/2"	
SN-07531-25	0.6 (17)	18 (457.2)	15 (1.03)						12 VDC	4.0	8" x 4" x 5 1/2"	
D Vacuum/pressure station												
SN-07531-80	0.5 (14.1)	23 (584.2)	23 (1.59)	95°F (35°C)	TEFC	1/45	73 dB(A)	3/8" hose barb	115 VAC, 60 Hz	1.5	7 1/2" x 8" x 8 3/4" (19.1 x 20.3 x 22.2 cm)	
SN-07531-85	0.4 (11.3)								230 VAC, 50 Hz	0.75		

[†] Total free-air capacity. Single-channel capacity is half this value. ^{††} Power switch not available on 230 VAC models.

