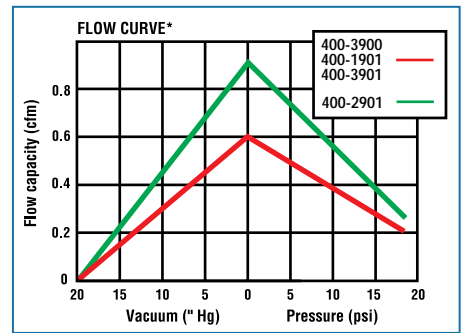


# Air Cadet® Vacuum/Pressure Pumps

## Features:

- ▶ Compact size makes pumps ideal for portable applications.
- ▶ All-plastic, convoluted diaphragm design handles many vacuum/pressure applications and reduces stress, wear, and heat build-up.
- ▶ Unique cavity configuration minimizes dead space and air entrapment.
- ▶ Choose from single-head, dual-head, vacuum/pressure station, or hazardous-duty pump depending on your application.
- ▶ Pumps are available with standard 115 or 230 VAC motor; or a hazardous-duty, 115 VAC motor. Standard AC motors are service-free, brushless type with sealed ball bearings and thermal overload protection.



**A**

ISO9001  
REGISTERED  
SUPPLIER



RUNS DRY

CE



**B**

### A Single-Head Pump

Single-head pump is economically priced and can handle many tough vacuum/pressure applications. Choose from two models to accommodate your electrical requirements.

**What's included:** thread tape made of Teflon® PTFE resin, two polyethylene 3/8" NPT(M) x 3/8" hose barb adapters, and a 6-ft, three-wire cord. The 115 VAC model includes a plug.

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

### B Dual-Head Pump

Dual-head pump offers you increased capacity over the single-head Air Cadet pump. 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 Teflon PTFE resin, four polyethylene 3/8" NPT(M) x 3/8" hose barb adapters, and a 6-ft, three-wire cord with plug. **Note:** Do not use metal fittings with any Air Cadet pump.

## Specifications & Ordering Information

### Wetted parts

Models 400-1901, 400-1902, 400-2901, and 7530-65: Noryl® pump head, nitrile diaphragm, valves of Teflon PTFE resin, and polyethylene (PE) adapters

Models 400-3901 and 400-3902: Noryl pump head, nitrile diaphragm, valves of Teflon PTFE resin, vinyl tubing, stainless steel regulator, bronze/brass gauge, and PE adapters

Model 400-3900: Noryl pump head, Fluorel® diaphragm, valves of Teflon PTFE resin, and PE adapters

**Port size:** 3/8" hose barb

**Maximum temperature:** 95°F (35°C)

**Duty cycle:** 6-hour cycle for diaphragms; motors are continuous duty

Part number	Free-air capacity	Max vacuum	Max pressure	Motor type	Power	Amps	Noise rating	Dimensions (L x W x H)	Shpg wt lb (kg)
<b>A Single-head pump</b>									
400-1901	0.6 cfm (17.0 L/min)	20" Hg	18 psi	1/45 hp, TEFC	115 VAC, 60 Hz 230 VAC, 50 Hz	1.2 0.8	72 dB(A)	7 1/4" x 4" x 5 1/2"	7 (3.2)
400-1902	0.5 cfm (14.1 L/min)*								
<b>B Dual-head pump</b>									
400-2901	0.9 cfm (25.5 L/min) <sup>†</sup>	20" Hg	18 psi	1/45 hp, TEFC	115 VAC, 60 Hz 230 VAC, 50 Hz	1.7 6.0	76 dB(A)	10 1/2" x 4" x 5 1/2"	8 (3.7)
7530-65	0.8 cfm (22.6 L/min) <sup>†</sup>								
<b>C Vacuum/pressure station</b>									
400-3901	0.5 cfm (14.1 L/min)	20" Hg	18 psi	1/45 hp, TEFC	115 VAC, 60 Hz 230 VAC, 50 Hz	1.5 0.75	73 dB(A)	7 1/2" x 8" x 8 3/4"	12 (5.5)
400-3902	0.4 cfm (11.3 L/min)*								
<b>D Vacuum/pressure pump with hazardous-duty motor</b>									
400-3900	0.6 cfm (17.0 L/min)	20" Hg	18 psi	1/4 hp, TENV	115 VAC <sup>‡</sup> , 60 Hz	4.5	55 dB(A)	15" x 7 1/2" x 6 1/2"	33 (15.0)

\*Total free-air capacity. Single-channel capacity is half this value.

<sup>†</sup>Split-phase

<sup>‡</sup>The 230 VAC, 50 Hz models have 3/4 the flow of the 115 VAC, 60 Hz models.

Fluorel—Reg TM Minnesota Mining and Manufacturing Co.  
Dacron, Delrin, Teflon—Reg TM E. I. DuPont de Nemours & Co.  
Valox—Reg TM General Electric Co.  
Air Cadet—Reg TM Cole-Parmer Instrument Co.  
Viton—Reg TM DuPont Dow Elastomers, L.L.C.

Noryl—Reg TM General Electric Co.  
Tygon—Reg TM Norton Co.  
Ryton—Reg TM Phillips Petroleum Co.  
Teflon—Reg TM E. I. DuPont de Nemours and Company