

**Welch®**

**OEM, Industrial & Refrigeration Catalog  
2005-2006**

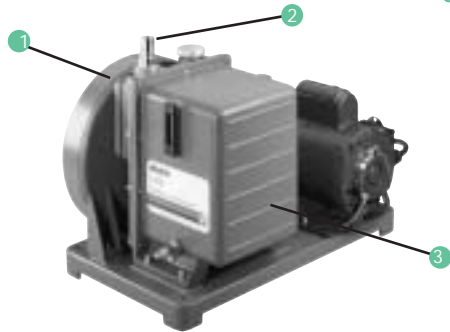
**Refrigeration & Air Conditioning Manufacturing  
Catalog Page 21**

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# Refrigeration & Air Conditioning Manufacturing

## Durability At The Deepest Vacuum



- 1 Low pump RPM ensures long service life
- 2 High efficiency pumping below 100 millitorr
- 3 Few moving parts increase pump durability

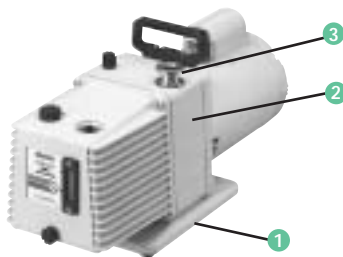
### DUOSEAL® High Vacuum Pump

DUOSEAL belt-drive high vacuum pumps are known worldwide for durability and a long service. The key reason for the long life and high efficiency in pumping below 100 millitorr is the low pump RPM.

**Note:** 1. See pages 4-5 for more details.

Cat. No.	Description <sup>1</sup>
1400B-01	0.9 CFM (25 L/min), 0.1 micron Hg (1 x 10 <sup>-4</sup> Torr, 1.3 x 10 <sup>-4</sup> mbar) 115V, 60Hz, 1 Ph, accepts 7/16 in. tubing
1402B-01	5.6 CFM (160 L/min), 0.1 micron Hg (1 x 10 <sup>-4</sup> Torr, 1.3 x 10 <sup>-4</sup> mbar) 115V, 60Hz, 1 Ph, accepts 13/16 in. tubing
1376B-01	10.6 CFM (300 L/min), 0.1 micron Hg (1 x 10 <sup>-4</sup> Torr, 1.3 x 10 <sup>-4</sup> mbar) 115V, 60Hz, 1 Ph, accepts 13/16 in. tubing
1397B-01	17.7 CFM (500 L/min), 0.1 micron Hg (1 x 10 <sup>-4</sup> Torr, 1.3 x 10 <sup>-4</sup> mbar) 115V, 60Hz, 1 Ph, accepts 1-5/8 in. tubing

**Note:** 1. See pages 4-5 for more details.



- 1 Small footprint
- 2 Built-in isolation device
- 3 ISO NW 25 inlet connection

### Welch® Direct-Drive Vacuum Pump

Welch direct-drive high vacuum pumps are compact with high capacity to occupy small floor space. These pumps come with isolation devices integral to the pump to prevent oil and air contamination in the event of a power failure.

Cat. No.	Description <sup>2</sup>
8917B-24	6.1 CFM (173 L/min), 0.1 micron Hg (1 x 10 <sup>-4</sup> Torr, 1.3 x 10 <sup>-4</sup> mbar) 115, 60Hz, 1 Ph, ISO NW 25 inlet fitting
8920B-24	7.7 CFM (218 L/min), 0.3 micron Hg (3 x 10 <sup>-4</sup> Torr, 4 x 10 <sup>-4</sup> mbar) 115V, 60Hz 1 Ph, ISO NW 25 inlet fitting
8925B-24	11.3 CFM (320 L/min), 0.4 micron Hg (4 x 10 <sup>-4</sup> Torr, 5.3 x 10 <sup>-4</sup> mbar) 115V, 60Hz 1 Ph, ISO NW 25 inlet fitting

**Note:** 2. See pages 2-3 for more details.

The A,B,C's of Vacuum Pump Selection			
	A	+	B = C
	Coil Size		Desired Vacuum = Flow Needed
Units	Ton		micron Hg(mbar) L/min
Residential AC	1.5		50(0.07) 160 to 450
	3		50(0.07) 250 to 340
Commercial Air Handling	5-10		500(0.7) 225 to 340
Appliance	0.5		300(0.4) 165 to 310
Leak Testing	1.5		500(0.7) 30 to 170