

# The Vacuum Pumps of Choice

For Evacuation of Refrigeration and HVAC Systems



- All common commercial refrigerants
- Lithium Bromide/Ammonia Chillers

WELCH® vacuum pumps are known worldwide for Ruggedness and Dependability. High capacity, two stage rotary vane vacuum pumps get you on and off the job fast.

- Deep vacuum for fast evacuation and dehydration
- Precision machined from the most durable materials
- Gas ballast for high vapor loads

Select from DUOSEAL® and CHEMSTAR® models for top performance and minimum maintenance or direct drive models for portable vacuum power. See reverse side for pump selection by refrigeration application or consult your Welch representative at [www.welchvacuum.com](http://www.welchvacuum.com).

DUOSEAL Belt Drive Pumps									CHEMSTAR Belt Drive Pumps			
<ul style="list-style-type: none"> <li>• Low pump RPM insures long service life</li> </ul>					<ul style="list-style-type: none"> <li>• Large oil reservoir dilutes contaminants</li> </ul>				<ul style="list-style-type: none"> <li>• Maximum component corrosion resistance</li> </ul>			
1402B-46			1376B-46			1397B-46			1402N-01			

Model	Type	Free Air Displ. (CFM)	Ultimate Pressure (Torr)	Motor HP	Pump RPM	Intake Male Flare (in.)	Oil Capacity (Qt.)	Wt. (Lbs.)	Electrical Requirements			Dimensions L x W x H (in.)
									Voltage	Frequency	Phases	
1402B-46	DUOSEAL	5.6	1x10 <sup>-4</sup>	1/2	525	3/4	2-1/4	112.0	115/230V	60 Hz	1 Ph	20 x 12 x 15
1402N-01	CHEMSTAR	5.6	1x10 <sup>-4</sup>	1/2	525	3/4	2-1/4	112.0	115/230V	60 Hz	1 Ph	20 x 12 x 15
1376B-46	DUOSEAL	10.6	1x10 <sup>-4</sup>	1	525	3/4	2-1/2	156.0	115/230V	60 Hz	1 Ph	20 x 14.1 x 15.4
1376N-01	CHEMSTAR	10.6	1x10 <sup>-4</sup>	1	525	3/4	2-1/2	156.0	115/230V	60 Hz	1 Ph	20 x 14.1 x 15.4
1397B-46	DUOSEAL	17.7	1x10 <sup>-4</sup>	1	400	See Note 1	1-1/4	205.0	115/230V	60 Hz	1 Ph	26 x 13.7 x 18.8

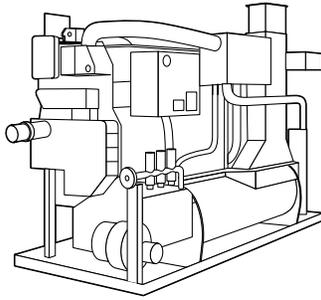
Note 1: Female 1-1/2" NPT Fitting

Direct Drive Pumps												
<ul style="list-style-type: none"> <li>• Lightweight with high volume capacity</li> </ul>												
8920A-46			8925A-46									

Model	Type	Free Air Displ. (CFM)	Ultimate Pressure (Torr)	Motor HP	Pump RPM	Intake Male Flare (in.)	Oil Capacity (Qt.)	Wt. (Lbs.)	Electrical Requirements			Dimensions L x W x H (in.)
									Voltage	Frequency	Phases	
8920A-46	Direct Drive	7.7	3x10 <sup>-4</sup>	3/4	1725	3/4	1-1/2	58.5	115/230V	50/60 Hz	1 Ph	20.5 x 7.1 x 10.7
8925A-46	Direct Drive	11.5	4x10 <sup>-4</sup>	3/4	1725	3/4	1-1/4	69.0	115/230V	50/60 Hz	1 Ph	21.2 x 7.1 x 10.7

# Welch Has the Pump to Meet Your Needs

## Lithium Bromide Absorption Chiller

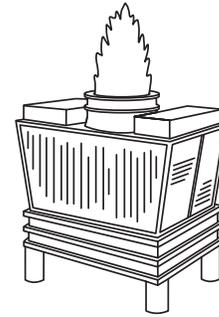


### Pump Requirements

- Handles harsh salt-laden water vapor
- Withstands accidental ingestion of salt solution
- Recirculates clean fraction of vacuum oil
- Order CHEMSTAR model for maximum corrosion resistance

Tonnage	DUOSEAL	CHEMSTAR
100-500	1402B-46	1402N-01
500-1000	1402B-46, 1376B-46	1376N-01
1000-1500	1376B-46, 1397B-46	1376N-01

## Rooftop/RTU's

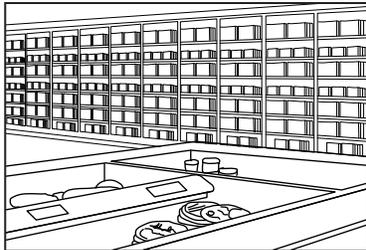


### Pump Requirements

- Portable and powerful
- Draws a very deep vacuum

Tonnage	Welch Model
1-50	8920A-46
50-100	8925A-46

## Cold Storage

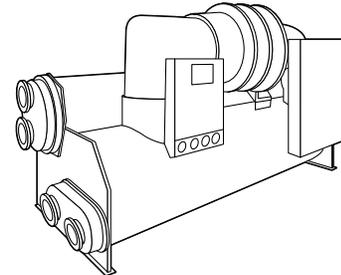


### Pump Requirements

- Handles long pumpdown time effectively
- Handles high water vapor loads
- Draws a very deep vacuum

Tonnage	Welch Model
10-50	1402B-46
50-500	1402B-46, 1376B-46
500-1000	1397B-46

## HCFC, CFC or Ammonia Chillers



### Pump Requirements

- Seals and gaskets won't break down in the presence of R-11, R-12, R-13, R-22, R-113, R-123, R-114, R-502, R-503 or ammonia
- Draws a very deep vacuum
- Order CHEMSTAR pump for highly corrosive systems

Tonnage	DUOSEAL	CHEMSTAR
10-50	1402B-46	1402N-01
50-500	1402B-46, 1376B-46	1376N-01
500-1000	1397B-46	1376N-01

# WELCH-ILMVAC

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