

The Vacuum Pumps of Choice

For Large Chiller Service

- HFO & HFC Systems Ammonia Chillers Refrigeration System and Component Manufacturing
- Lithium Bromide Absorption Commercial/Industrial Chillers Cold Storage Rooftops/RTU's



HOF Chiller Dehydration Pump

Cat No. 3161-02, 12.8 cfm

CRVpro Direct-Drive

- · High flow in small footprint
- Lightweight models for rooftop jobs
- Deep vacuum for fast evacuation and dehydration
- Chemical duty (protective coating)
- Forced oil lubrication
- Gas ballast for high vapor loads

Lithium Bromide Absorption Service Pump

Cat. No. 1402B-46, 5.6 cfm

DuoSeal® Belt-Drive

- Proven performer, pump of choice for years
- Low pump RPM insures long service life
- Large oil reservoir dilutes contaminants
- Deep vacuum for fast evacuation and dehydration
- Precision machined steel rotor, cast iron intake, exhaust ring, metal vanes
- Gas ballast for high vapor loads

WELCH HAS THE PUMP TO MEET YOUR NEEDS

COLD STORAGE



PUMP REQUIREMENT

- · Handles long pump down time effectively
- · Handles high water vapor loads
- · Draws a very deep vacuum

TONNAGE	WELCH CAT. NO.
10-50	1402B-46, 3081-02
50-500	1402B-46, 1376B-46, 3161-02
500-1000	1397B-46, 3161-02, 3241-01, 3301-01

INDUSTRIAL/COMMERCIAL CHILLERS



PUMP REQUIREMENT

- Draws a very deep vacuum
- · Handles high water vapor loads
- · Heavy duty for continuous industrial use

TONNAGE	WELCH CAT. NO.
10-50	1402B-46 ¹ , 3081-02
50-500	1402B-46 ¹ , 1376B-46 ¹ , 3161-02
500-1500	1397B-46 ¹ , 3161-02, 3241-01, 3301-01

Note 1: Pump seals and gaskets will handle Ammonia refrigerant.

ROOFTOPS/RTU'S



PUMP REQUIREMENT

- Portable and powerful
- · Draws a very deep vacuum
- · Large oil reservoir to dilute contaminants

TONNAGE	WELCH CAT. NO.
1-50	3081-02
50-100	3161-02

LITHIUM BROMIDE ABSORPTION CHILLER



PUMP REQUIREMENT

- · Handles harsh salt-laden water vapor
- · Withstands accidental ingestion of salt solution
- Recirculates clean fraction of vacuum pump oil

TONNAGE	WELCH CAT. NO.
100-500	1402B-46
500-1000	1402B-46, 1376B-46
1000-1500	1397B-46, 1397B-46

ROBUST FOR CONTINUOUS INDUSTRIAL USE

CRVpro TWO-STAGE DIRECT-DRIVEN ROTARY VANE VACUUM PUMPS







3081-02 3161-02 3241-01/3301-01

CAT. NO.	FREE AIR DISPLACEMENT, CFM	ULTIMATE VACUUM, MICRONS	MOTOR, HP	PUMP RPM	INTAKE CONNECTION	OIL CAPACITY, QTS	WT LBS.	DIMENSIONS, LxWxH, IN.	ELECTRICAL
3081-02	5.6	1.5	1/2	1750	3/4" flare	1.1	49.6	18.2x6.1x9.1	115V, 60Hz, 1Ph
3161-02	12.8	2	1	1750	3/4" flare	2.5	81.6	22.4x8.1x11.4	115V, 60Hz, 1Ph
3241-01	18.3	2	1.5	1750	NW251	2.2	84.9	22.4x8.1x11.4	115V, 60Hz, 1Ph
3301-01	22.1	2	1.5	1750	NW25 ¹	2.2	87	22.4x8.1x11.4	115V, 60Hz, 1Ph

Note 1: Order cat. no. 1393E, NW25 to 3/4" male flare, to properly connect your service hoses. If using something else, call your Welch Rep.

DUOSEAL® TWO-STAGE BELT-DRIVEN ROTARY VANE VACUUM PUMPS







1402B-46 1376B-46 1397B-46

CAT. NO.	FREE AIR DISPLACEMENT, CFM	ULTIMATE VACUUM, MICRONS	MOTOR, HP	PUMP RPM	INTAKE CONNECTION	OIL CAPACITY, QTS	WT LBS.	DIMENSIONS, LxWxH, IN.	ELECTRICAL
1402B-46	5.6	1	1/2	525	3/4" flare	2.25	112	20x12x15	115V, 60Hz, 1Ph
1376B-46	10.6	1	1	525	3/4" flare	2.5	156	20x14.1x15.4	115V, 60Hz, 1Ph
1397B-46	17.7	1	1	400	Female, 1-1/2 in. NPT	1.25	205	26x13.7x18.8	115V, 60Hz, 1Ph

WELCH® VACUUM PUMP OILS AND EXHAUST FILTERS

CRVpro PREMIUM DIRECT-DRIVE VACUUM PUMP OIL



8995P-11

- Low vapor pressure
- · Designed for high RPM direct-drive vacuum pumps
- · No additives or inhibitors
- · Recommended for CRVpro direct-drive vacuum pumps

ORDERING INFORMATION					
Size	Liter	Gallon	5 Gallon		
CAT. No.	8995P-11	8995P-15	8995P-20		

DUOSEAL BELT-DRIVE VACUUM PUMP OIL



1407K-11

- Low vapor pressure
- · Ideal viscosity for belt-drive vacuum pumps
- High consistency
- · Recommended for DuoSeal belt-drive vacuum pumps

ORDERING INFORMATION					
Size	Quart	Gallon	5 Gallon		
CAT. No.	1407K-11	1407K-11	1407K-20		

EXHAUST FILTER WITH COALESCED OIL DRAINBACK FEATURE



1417E / 1417F



1417A / 1417B

- · Coalesced oil drains back into pump oil case reduces oil consumption
- Filters to 0.3 micron particle size
- · Reduces Pump Noise

ORDERING INFORMATION					
Use with pump cat. no.	Filter Element w/Housing	Replacement Filter Element			
3081-02	1417E	1417R			
3161-02, 3241-01, 3301-01	1417F	1417H-01			
1402B-46, 1376B-46	1417A	1417G			
1397B-46	1417B	1417H			

Gardner Denver Thomas Inc. 1601 Feehanville Drive Suite 550 Mt. Prospect, IL 60056 Tel: +847-676-8800 Fax: +847-677-8606 welch.na@gardnerdenver.com

