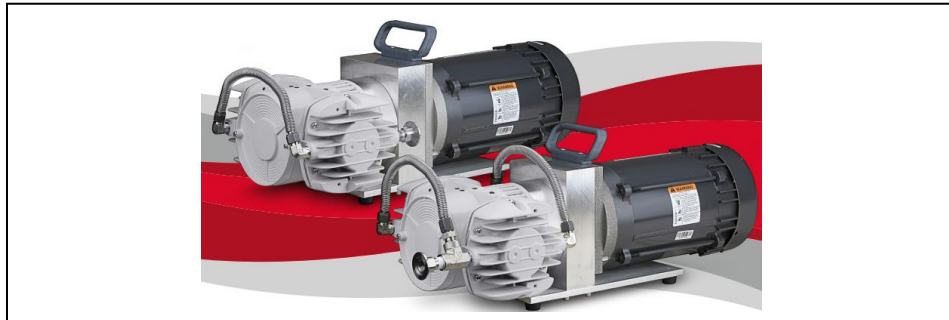


New Product Announcement

New Welch® Chemically Resistant Diaphragm Vacuum Pumps with CSA & UL listed Explosion Proof Motors



Welch's new portable, high flow, chemically resistant diaphragm vacuum pumps are fitted with CSA/UL listed Class I, Groups C&D and Class II, Groups E, F & G explosion proof motors. The TEFC ½ HP explosion proof motors operate at 115V/208-230V, 60Hz, 1Ph.

The vacuum pumps are assembled in our Sheboygan, WI plant with parts sourced in NA.

The pumped gases stay clean because the pumps are oil-free. Wetted parts are PTFE and stainless steel. Pumps are not for pumping liquids.

Model 2090W-01 has a free air displacement of 4.5 cfm with ultimate vacuum pressure of 25 Torr. Model 2085W-01 has free air displacement of 6.9 cfm and ultimate vacuum pressure of 100 Torr. With these flow and vacuum characteristics, the vacuum pumps are used with rotary evaporators, glass reactors, filter tables, vacuum ovens and variety of other equipment needing a vacuum source.

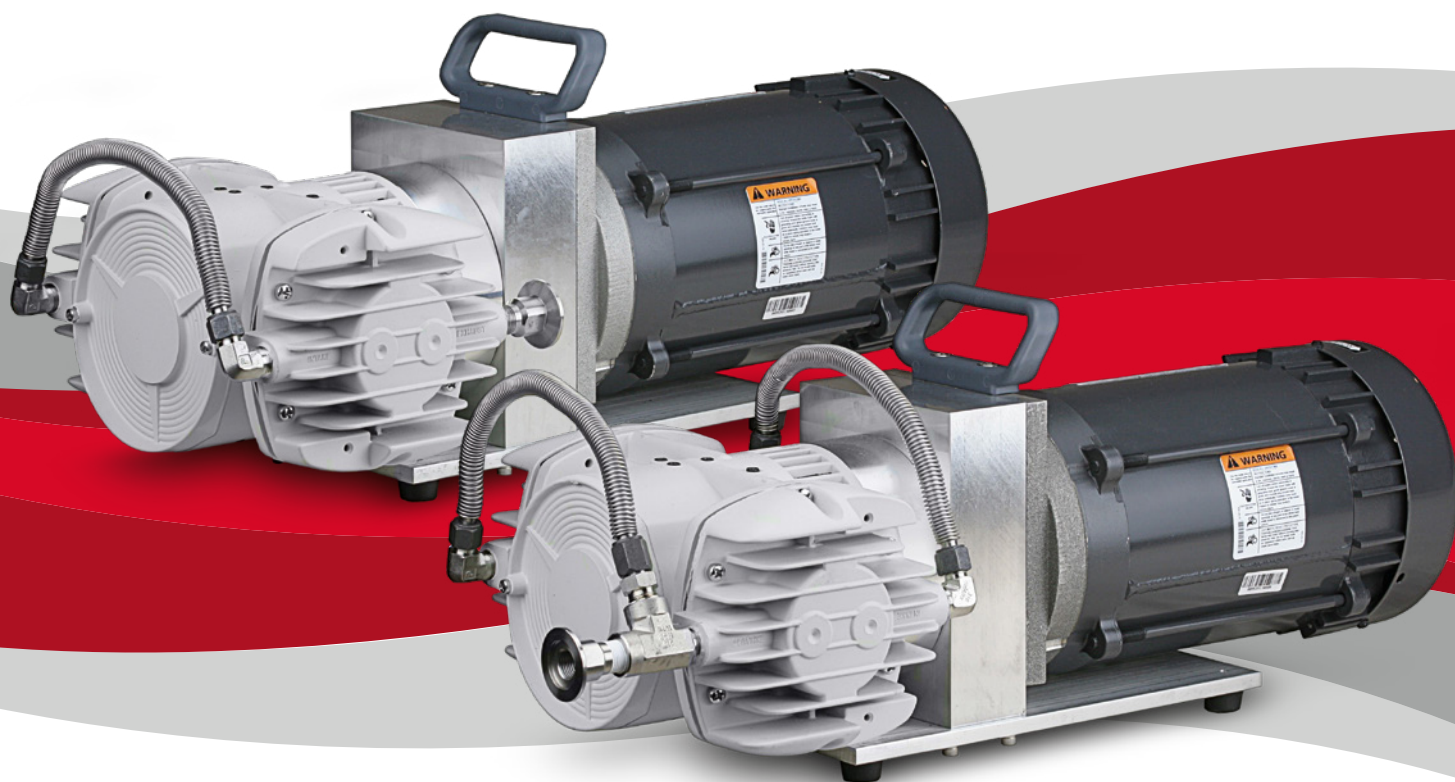
The pumps are rated for continuous use with heavy duty, permanently lubricated bearings. Inlet and exhaust connections are stainless steel NW25 flanges. The pumps come with a carrying handle. Pumps are portable, weighing 54 lbs each.



As with all vacuum pumps with explosion proof motors, conduit wiring to an explosion proof control panel is required. Always use a certified electrician for proper installation of vacuum pump to meet your local municipal codes. Local Welch areal sales managers can provide further information.

Chemical Duty Diaphragm Pumps

With Explosion Proof Motor



Models 2090/2085

Welch corrosion-resistant diaphragm vacuum pumps are driven by explosion-proof motors rated for Class I Hazardous Locations (HazLoc). The aluminum pump head is PTFE coated and diaphragm is covered by a PTFE liner to separate chemical media from the diaphragm. The explosion proof motor is directly coupled to the diaphragm pumping module. Stainless steel tubing is used to connect pump heads together in one and two-stage configurations.

The vacuum pump doesn't come with an on/off switch, plug or cord, but must be conduit wired to the on/off explosion proof control panel. Always use a certified electrician for proper installation of vacuum pump with explosion proof motor to meet your local municipal codes.

Contact Fox Scientific for further information:

 **Fox Scientific, Inc.**
sales@foxscientific.com . (800)369-5524
www.foxscientific.com

FEATURES & BENEFITS

- ✓ Corrosion-resistant
- ✓ Flow from 4.5 to 6.9 cfm
- ✓ Maximum vacuum to 29 in. Hg (25 Torr)
- ✓ Fitted with Class I, Groups C&D explosion proof motor (CSA/UL)
- ✓ Portable

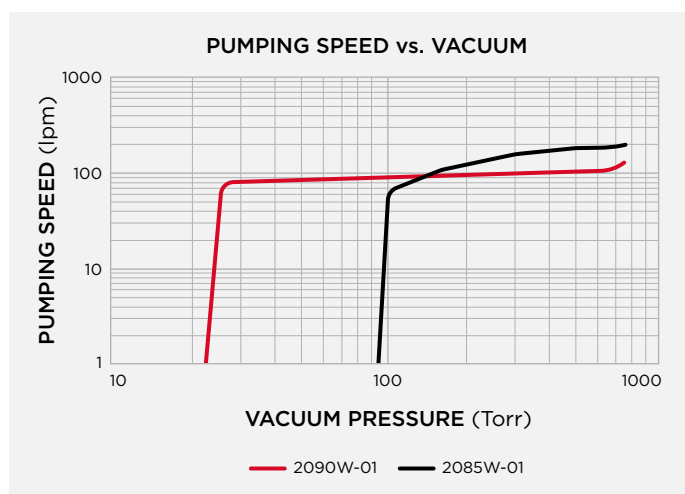

WELCH
by Gardner Denver

SPECIFICATIONS AND ORDERING INFORMATION

MODEL	2085	2090
FAD, lpm (cfm)	195 (6.9)	127 (4.5)
Ultimate Pressure, Torr	100	25
Max. Vac., in. Hg	26	29
Head Material	Coated PTFE	Coated PTFE
Diaphragm liner	PTFE	PTFE
Valves	Stainless Steel	Stainless Steel
Inlet/Outlet connection	NW25	NW25
Motor Type	Ex Proof ¹	Ex Proof ¹
Motor HP	1/2	1/2
Electrical requirement	115/230V 60Hz 1Ph	115/230V 60Hz 1Ph
Weight, lbs (kg)	54 (25.5)	54 (25.5)
Dimensions, LxWxH	27 x 11.3 x 11.3	24.6 x 11.1 x 11.3

ORDERING INFO		
Cat. No.	2085W-01	2090W-01

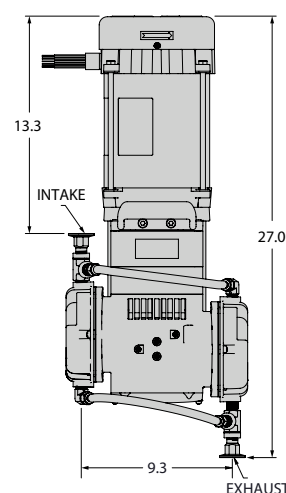
Note: 1. Explosion proof motor (CSA,UL) is Class I, Groups C&D and Class II, Groups E, F&G.



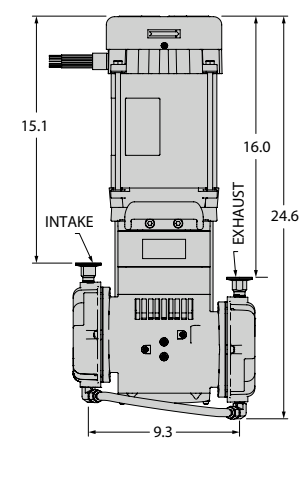
VACUUM REGULATOR WITH DIAL GAUGE CAT. NO. 2090K-05

Chemical resistant, vacuum bleed valve regulator with dial vacuum gauge to vary vacuum level to maximum vacuum of pump. Use with cat. nos. 2090W-01 and 2085W-01. NW25 connections.

2085W-01



2090W-01



Please check out all our brands for your mission-critical flow control technologies:



OEM Pumps
www.gd-thomas.com



Vacuum Pumps & Systems
www.welchvacuum.com



Syringe Pumps
www.tricontinent.com



Lab Automation
www.zinsser-analytic.com

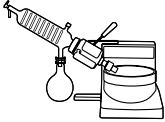

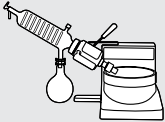



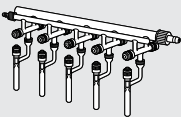

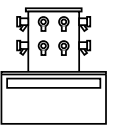

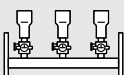

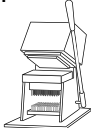



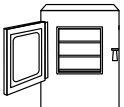





Syringes
www.microsyringes.com

Pump Quick Selection Chart | For Common Lab Applications



Fox Scientific, Inc. sales@foxscientific.com . (800)369-5524 . www.foxscientific.com

APPLICATION	WELCH VACUUM PUMPS & SYSTEMS	FLOW RATE X VACUUM	UNIT PHOTO	MODEL	PAGE
Rotovap Volatiles, Low B.P. B.P. <100°C Samples 0-5 Liter 	Self Cleaning System with regulator, gauge, condensate jars	35 l/min. 9 torr (12mbar)		202501	6 - 8
	DRYFAST PTFE Pump	25 l/min. 9 torr (12mbar)		2034B-01	
Rotovap DMF, Toluene, other non-volatiles Samples 0-5 Liter 	Self Cleaning System programmable w/condensate catchpots	35 l/min. 2 torr (2.7mbar)		202701	6 - 8
	DRYFAST ULTRA PTFE Pump	35 l/min. 2 torr (2.7mbar)		2042B-01	
Concentrator DNA Pelletling SpeedVac® & CentriVac® Process Applications 	DRYFAST PTFE Pump	35 l/min. 9 torr (12mbar)		2044B-01	15
	DRYFAST ULTRA PTFE Pump	35 l/min. 2 torr (2.7mbar)		2042B-01	
	Welch High Capacity PTFE Pump	100 l/min. 6 torr (8.0mbar)		2054B-01	
Vacuum Manifold Schlenk Line 	DuoSEAL® & CHEMSTAR® Pumps	25 l/min. <1 millitorr (1.3x10 ⁻³ mbar)		1400B-01 or 1400N-01	10 - 11
	GEM® System	31 l/min. 100 millitorr (0.13mbar)		8890A-70	
Freeze Dryer 	CRVpro, Your Robust Vacuum Pump	158 l/min.		3081-01	16 - 17
	CHEMSTAR Low RPM Pump	160 l/min.		1402N-01	
	Direct drive pump with integral oil filtration system	173 l/min.		8917A-80	
Filtration 	Welch Light Chemical Duty Pump	37 l/min.		2019B-01	18 - 19
	DRYFAST - Chemical Duty Pump	35 l/min.		2014B-01	
	WOB-L - Standard Duty Pump	45 l/min.		2546B-01	
Aspiration/Automation Cell Harvester Plate Washer 	WOB-L - Standard Duty Pump	100 l/min. 27.6 in. Hg (80mbar)		2567B-50	12 - 13
	DRYFAST - Chemical Duty Pump	70 l/min. 28.5 in. Hg (47mbar)		2047B-01	
Cell Culture Aspiration 	Welch Aspiration Station With gauge, regulator, 1200 ml autoclavable trap with liquid blockade system	34 l/min. 27.2 in. Hg (93mbar)		2515B-75	12 - 13
Vacuum Oven Drying Degassing 	WOB-L - Standard Duty Pump	100 l/min.		2581B-50	22 - 23
	DRYFAST - Chemical Duty Pump	35 l/min.		2042B-01	
	Welch High Capacity PTFE Pump	100 l/min.		2054B-01	
	CRVpro Pump	160 l/min.		3061-01	
Gel Dryer 	DRYFAST - Chemical Duty Pump	35 l/min.		2014B-01	14