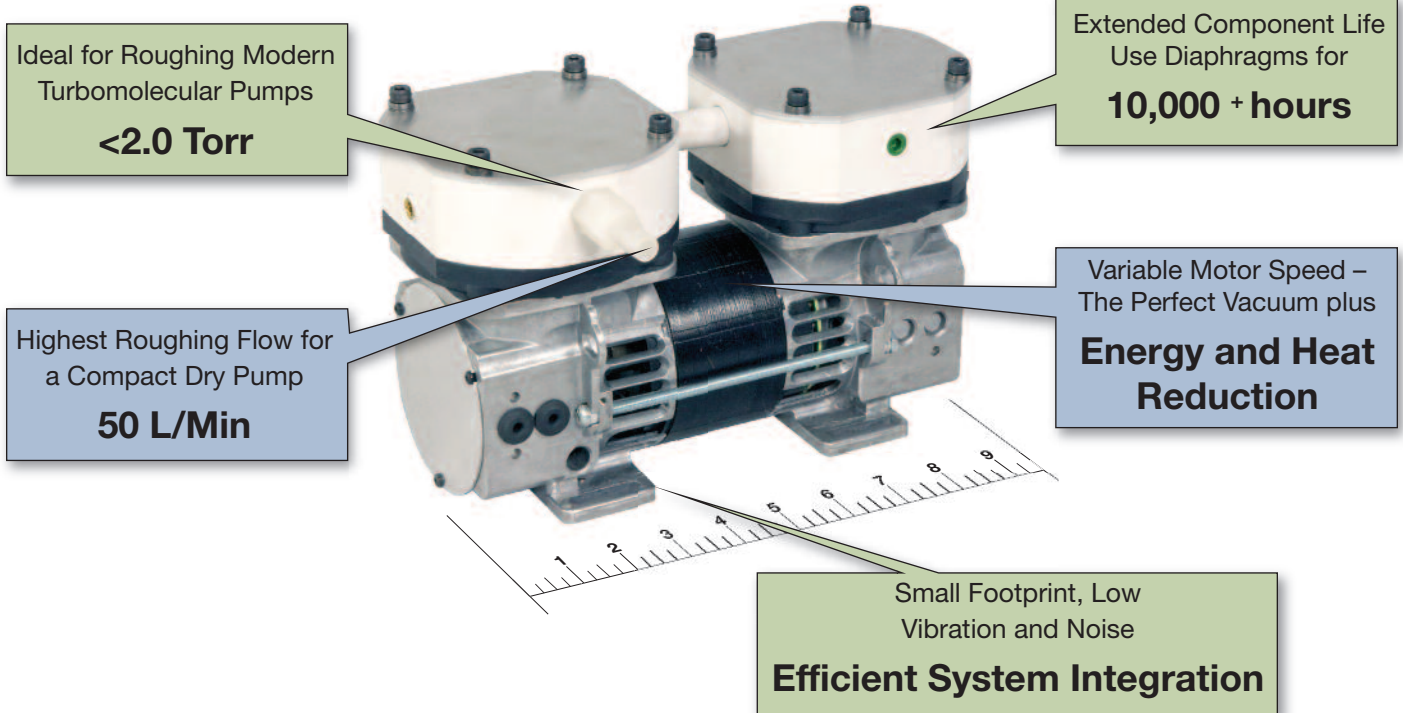


VARIFLOW DC Dry Vacuum Pump



Superior Oil-Free Solution for Instrumentation



VARIFLOW DC Dry Vacuum Pumps

VARIFLOW DC 2-stage pumps employ patented tangential diaphragm technology that offers the performance of a 3-stage, 4-diaphragm pump - with only 2 diaphragms and pump heads. Welch's efficient design creates more flow in a smaller pump volume and fewer wear parts compared to competitive technology. Benefits of this unique technology include: smaller instruments, lower energy consumption leading to less waste heat, lower sound levels/vibration, and lower maintenance cost.

The brushless 24V DC drive mechanism makes it straightforward to integrate VARIFLOW pumps into your overall vacuum system. Use your existing power supply and vacuum control technology to control the variable speed drive mechanism.

In turbo backing applications, variable speed capability allows the designer/user to shorten the roughing time of a chamber by running the pump at high speed initially. After roughing is completed, the speed of the VARIFLOW pump is reduced, resulting in less waste heat, longer diaphragm/valve life, reduced vibration and lower noise levels.

In flow applications, such as gas analyzers, the pump speed can be fixed or controlled via an external signal from a vacuum controller. The speed control feature allows the regulation of vacuum parameters to optimize the overall efficiency and detection capabilities of the instrument.

See Reverse Side for Details

Selecting your Welch® VariFlow DC Pump

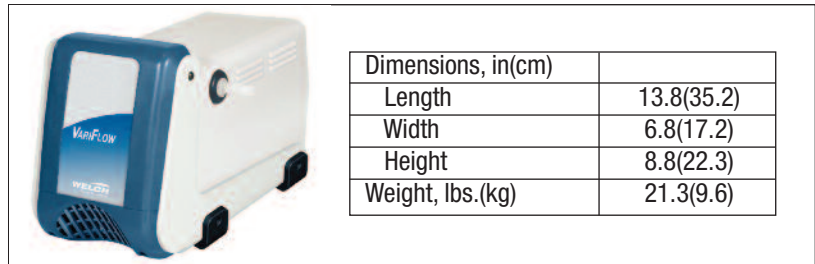
Specifications & Ordering

	Chemical Duty	Standard Duty
Free Air Displ., l/min		
@2200 rpm ¹	51	51
@1700 rpm ²	43	43
@700 rpm ²	17	17
Vacuum, Torr	2.0	1.5
Rated Motor Power, kW	0.085	0.085
Amps @1700 rpm, 2 Torr	2	2
Amps @2200 rpm, 2 Torr	4	4
Amps @1700 rpm, 760 Torr	4	4
Amps @2200 rpm, 760 Torr	7	7
Tubing needed, ID	1/4 in.	1/4 in.
OEM style cat. no.	8115D-20	8111D-25
Standalone cat. no.	2042D-20	8113D-25

Notes:

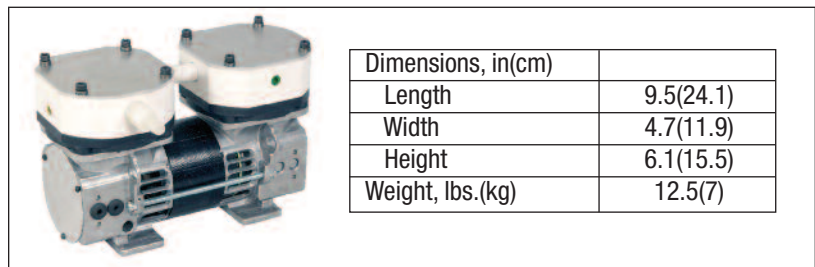
1. Intermittent duty operation - startup/restart.
2. Continuous duty operation.

Stand-Alone VARIFLOW DC



Dimensions, in(cm)	
Length	13.8(35.2)
Width	6.8(17.2)
Height	8.8(22.3)
Weight, lbs.(kg)	21.3(9.6)

OEM VARIFLOW DC

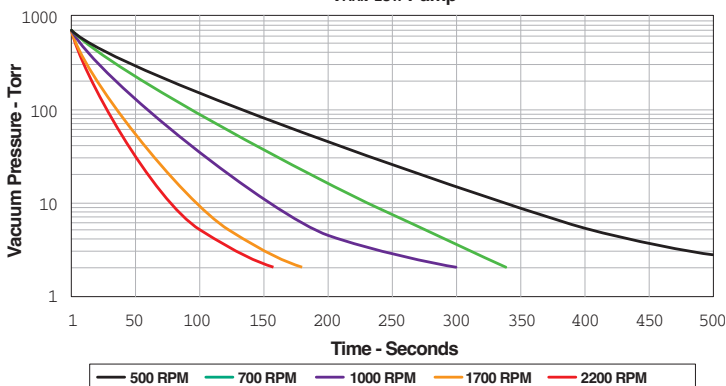


Dimensions, in(cm)	
Length	9.5(24.1)
Width	4.7(11.9)
Height	6.1(15.5)
Weight, lbs.(kg)	12.5(7)

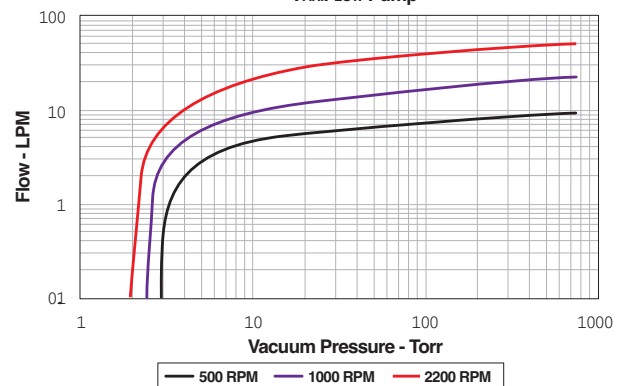
Two basic VARIFLOW DC configurations with integrated controller are available: OEM style or Stand-Alone. The OEM VARIFLOW DC is mountable in any position. The stand-alone VARIFLOW DC is enclosed in a stylized casing, with standard rubber feet and an ergonomic recessed handle for easy transport.

Select VARIFLOW DC pump chemical resistance based on the nature of pumped gases/vapors. Both OEM and Stand-Alone versions include a motor controller (analog 0-5V or PWM control), operate on 24 VDC power, and are available with chemical duty or standard duty construction. Mounting dimensions for chemical or standard duty pumps are identical. Custom configurations are available to optimize system pump usage or extend free air displacement to 85 l/min @ 40 Torr – contact Welch for more information.

Pumpdown Time - 10L Tank
VARIFLOW Pump



Pumping Speed at Selected RPM
VARIFLOW Pump



Perfect for:

- Turbo Backing
- Gas Transfer
- Gas Analyzers

Gardner Denver Thomas, Inc.
Welch Vacuum Technology
5621 W. Howard St.
Niles, IL 60714
Tel 847-676-8800
Fax 847-677-8606
www.welchvacuum.com

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