Welch® Self-Cleaning Dry Diaphragm Vacuum Systems

Complete oil free, chemical duty vacuum systems down to 2.0 Torr with vacuum pressure control, inlet and outlet traps, gauges and self- cleaning purge

202501	202601	202701	202801	202901
(35 l/min; 9 Torr) Analog gauge	(35 l/min; 2 Torr) Analog gauge	(35 l/min; 2 Torr) Digital Gauge	(35 l/min; 2 Torr) Programmable	(70 l/min 20 Torr) Programmable

The Welch series of Self-Cleaning Dry Diaphragm Vacuum Systems offer ideal performance, vacuum control, high strip rates for water, toluene, DMF, and even DMSO, in a small, easy-to-use package.

Self-Cleaning function and air-bleed vacuum control assure fast strip rates across multiple runs per day, plus greatly prolonged membrane service life.

Operation is easy, with built-in vacuum gauge and user-friendly pressure control regulator. Quiet operation and high flow make these vacuum systems a perfect fit for rotary evaporators, bench top distillation, vacuum drying, and chemical duty filtration.

All models include PTFE diaphragm vacuum pump with solid PTFE heads and FFKM valves. Condensation catchpots for inlet and outlet are included.

- ✔ VACUUM LEVEL TO 2 TORR
- ✔ FLOW RATE OF 35 L/MIN TO 70 L/MIN
- ✔ BUILT-IN VACUUM PRESSURE CONTROL REGULATOR
- ✔ STRIP DMF TO 7 ML/MIN, AT 35°C
- ✔ BUILT-IN RUGGED CHEMICAL RESISTANT PTFE DIAPHRAGM PUMP
- ✔ IDEAL FOR ROTOVAPS, DISTILLATION, DRYING AND DEGASSING
- ✔ SELF-CLEANING PURGE ACTIVATES AUTOMATICALLY UPON SHUT-DOWN
- ✔ ANTI-BUMPING/FOAMING/CONDENSATE CONTROL
- ✔ PROGRAMMABLE MODEL 2028 FEATURES WALK AWAY AUTOMATION

Depend on Welch to deliver the highest performance, most durable vacuum pumps

AMERICAS
Gardner Denver Thomas Inc.
1601 Feehanville Drive
Suite 550
Mt. Prospect, IL 60056
USA

Tel: +1 847 676 8800
welch.na@gardnerdenver.com

WELCH®
An Ingersoll Rand Business

Ingersoll Rand

www.welchvacuum.com

SPECIFICATIONS

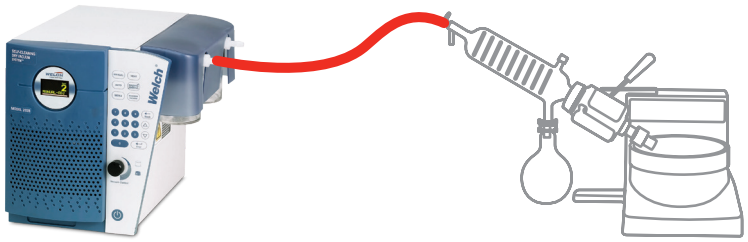
MODEL	2025	2026	2027	2028	2029
Free Air Displacement, l/min (CFM) @60Hz	35(1.2)	35(1.2)	35(1.2)	35(1.2)	70(2.5)
Ult. Vacuum Pressure, Torr	9	2	2	2	30
Maximum Vacuum, in. Hg	29.6	29.85	29.85	29.85	29.1
Tubing Needed, I.D. in.[1]	1/4	1/4	1/4	1/4	1/4
Power (watts)	150	150	150	150	150
Vacuum Gauge	Analog	Analog	Digital	Digital	Digital
Vacuum Control	Air-bleed needle valve	Air-bleed needle valve	Air-bleed needle valve	Programmable	Programmable
Gas Ballast	Yes	Yes	Yes	Yes	Yes
Intake/exhaust Thread NPT	3/8	3/8	3/8	3/8	3/8
Weight lbs.	30	30	30	30	30
Overall Dimensions LxWxH in.	13.6x12x11.3	13.6x12x11.3	13.6x12x11.3	13.6x12x11.3	13.6x12x11.3
Ship Weight	36	36	36	36	36

Note 1. Vacuum hose cat. no. 331030-5, 1/4 in. ID, matches with self-cleaner intake barb and rotovap condenser barb as shown in Schematic I below. Package of 10 hose clamps is cat. no. 305320.

ORDERING INFORMATION

MODEL	2025	2026	2027	2028	2029
Wired for 115V, 60Hz, 1Ph with N. Amer. 115V Plug	202501	202601	202701	202801	202901

Schematic I.
Typical Set-up of
Self-Cleaner with Rotovap



MODEL SELECTOR				
Boiling Point, Atmospheric Pressure	80°C	110°C	160°C	195°C
Example solvents	Methylene Chloride, Acetone, Chloroform, Ethanol	Trichloroethylene, n-Propyl Alcohol, Heptane, Water, Toluene, Acetic Acid	1,222, - Tetrachloroethane, DMF, Pentachloroethane	DMSO, Polymers
Rotovap Flask Size	System Model			
1 L	202501	202601, 202701, 202801	202601, 202701, 202801	202601, 202701, 202801 @55ºC bath temperature
2 L				
10 L				
20 L				
>20 L	202901	202901	–	–

© Gardner Denver Thomas Inc. All rights reserved. 01/2022