



2 Torr Chemical Duty **PROGRAMMABLE** Self-Cleaning Dry Vacuum System™

- New large easy to read lighted display screen
- Ease of use control knob and numeric key pad
- Compact all in one vacuum pump, controller and traps
- Repeat or store up to five program settings
- 2 torr @ 35 L/min. for *...fast stripping of DMF*
- Corrosion resistant PTFE (oil-Free) diaphragm pump
- Range 2 torr/2.7 mbar up to 700 torr/ 900 mbar
- New patent-pending diaphragm pump technology



Model 2028

Welch's new **PROGRAMMABLE** 2 Torr Self-Cleaning Dry Vacuum System is ideal to use with a rotary evaporator for stripping high-boiling-point solvents <160 °C such as DMF or low boiling point solvents such as methylene chloride using the vacuum controller.

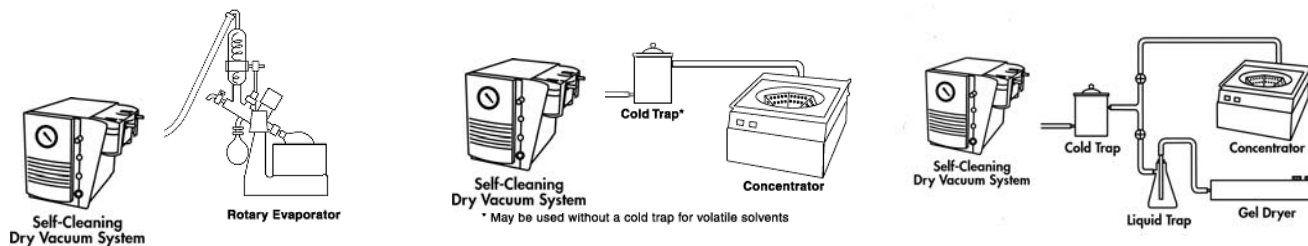
The system's patent-pending two-stage, flexible diaphragm pump resists chemical vapors thanks to fluorinated plastics used on all wetted surfaces—including the diaphragm itself. Pump is oil-free yet delivers a vacuum to 2 Torr (2.7 mbar, 266 Pa) with a free air displacement of 35L/min. (1.2 CFM). Plus, the self-cleaning purge automatically runs for two minutes at shutdown to rid pump of residue—ensuring longer membrane service life and reducing downtime.

The **PROGRAMMABLE** Self-Cleaning Dry Vacuum System model is fully equipped with several added protective features. Features include a glass inlet separator that helps prevent the pump from ingesting liquids or particulates; a fully integrated vacuum controller that can store up to five program settings to allow hand free operation; and an exhaust separator that collects any liquid droplets or particulates flushed from the pump during the purge cycle.

An adjustable vacuum control knob, numeric key pad and up/down arrows ensure precise vacuum control. A feature especially useful when pumping low-boiling point solvents to minimize foaming or bumping within a flask is the one touch Bumping/ Anti-Foaming Button.

Dial, select or arrow to your desired setting and walk away. Welch's new model 2028 **PROGRAMMABLE** Self-Cleaning system will take care of the rest. (handles flasks up to 5L).

Rotary Evaporators • Concentrators • Gel Dryers



System includes easy to read lighted display screen, ease of use control knob and numeric key pad to quickly set and forget in either Auto or Manual modes, an intake and exhaust capture jars, and an automatic fresh air purge that cleans the system after each use and extends the life of the diaphragms.

Specifications* & Ordering Information

Model	202801 ⁽¹⁾	202803 ⁽²⁾	202805
Free Air Displacement			
CFM(L/min) @ 60Hz	1.2(35)	1.2(35)	1.2(35)
m ³ /hr(L/min) @ 50Hz	1.8(29)	1.8(29)	1.8(29)
Ultimate Pressure, Torr (mbar, Pa)	2 (2.7, 266)	2 (2.7, 266)	2 (2.7, 266)
Maximum Vacuum, in. Hg.	29.85	29.85	29.85
Motor Horsepower (watts)	1/5(150)	1/5(150)	1/5(150)
Bump/Anti-Foam Button	Yes	Yes	Yes
Tubing Needed, ID in. (mm)	1/4(7)	1/4(7)	1/4(7)
Intake Exhaust Thread NPT	3/8	3/8	3/8
Weight(lbs.)	30(13.6)	30(13.6)	30(13.6)
PROGRAMMABLE			
Repeat Function	Yes	Yes	Yes
Stored programs	up to 5	up to 5	up to 5
Timer	1-999 min.	1-999 min.	1-999 min.
Overall Dimensions			
L in. (cm)	13.6 (42.2)	13.6 (42.2)	13.6 (42.2)
W in. (cm)	12(30.5)	12(30.5)	12(30.5)
H in. (cm)	11.3(28.7)	11.3(28.7)	11.3(28.7)
Ship Weight, lbs (kg)	36(16.3)	36(16.3)	36(16.3)
Shipping Carton Dimensions	21x15.5x14.25	21x15.5x14.25	21x15.5x14.25
L x W X H in. (cm)	(61x39.4x36.2)	(61x39.4x36.2)	(61x39.4x36.2)
Electrical Requirements	115V, 60 Hz	230V, 50 Hz	100V 50/60 HZ

* Specifications subject to change without notice.

1) CSA Approved model.

2) 50 Hz models supplied with CE marking.

Welch® - Applied Vacuum Technology for the Laboratory



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