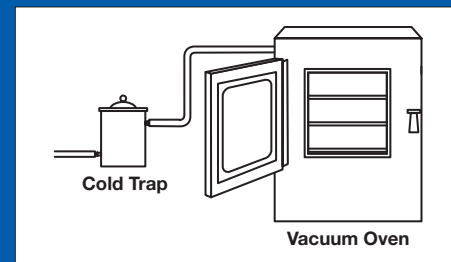


Welch® Dry Pumps

Applied Vacuum Technology for Vacuum Ovens



Chemistry:

Water vapor

Organic, acidic, and/or basic vapors



Types of Pump:

WOB-L®
Piston Pump

DRYFAST ULTRA®
Diaphragm PTFE Pump

Oven Size:

Less than 2 ft³ (57L)
2 to 4.5 ft³ (127L)

Cat. No.

2561B-50(60L/min, 5 Torr)
2581B-50(100L/min, 5 Torr)

Cat. No.

2042B-01 (35L/min, 2 Torr)

Key Advantages:

Oil-free	No oil contamination. No oil mess. No exhaust oil vapor(smoke).
Cost effective	No oil changes, no cold trap for light vapor loads.
Compact/Lightweight	More portable than oil-sealed pumps. Easy to move from bench to bench.
Application certified	Developed and tested by Welch for selected vacuum oven applications such as drying of glassware, precipitates, food samples and soil samples. ² Satisfaction guaranteed when operated according to owner's manual recommendations.

Note:

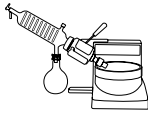

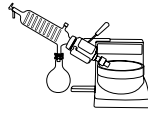



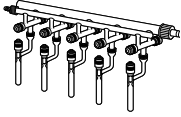

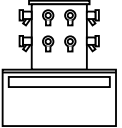

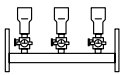





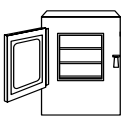



1. May be used without a cold trap for light to moderate vapor loads(see page 32 of Welch lab catalog for complete trap selection table.)
2. Degassing or bake-out/curing may require millitorr vacuum level achieved with oil sealed vacuum pump. Consult your internal application specifications.
3. See page 14 of Welch lab catalog for more information and recommendations.



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Welch® Pumps

Applied Vacuum Technology for the Laboratory

Application	Welch Vacuum Pumps & Systems	Flow Rate x Vacuum	Unit Photo	Model	See Page
Rotovap Volatiles, Low B.P. B.P. <100°C Samples 0-5 Liter 	"Rotovap System" DRYFAST® System with regulator, gauge, condensate jars, self-cleaning auto-purge	35 L/min. x 9 Torr (12 mbar)		202501	6
Rotovap DMF, Toluene, other non-volatiles Samples 0-5 Liter 	"High Boiler System" DRYFAST ULTRA® System & Pump	35 L/min. x 2 Torr (2.7 mbar) 35 L/min. x 2 Torr (2.7 mbar)		202701 2042B-01	3 2
Concentrator Samples <2ml x 24, DNA Pelleting 	"Concentrator Pump" DRYFAST ULTRA Pump DRYFAST ULTRA SYSTEM Compatible with: SpeedVac® & CentriVap®	35 L/min. x 2 Torr (2.7 mbar) 35 L/min. x 2 Torr (2.7 mbar)		2042B-01 202601	2 3
Vacuum Manifold Schlenk Line 	"Vacuum Manifold Pump" DUOSEAL® & CHEMSTAR® Pumps GEM® System	25 L/min. <1 millitorr (1.3x10 ⁻³ mbar) 100 millitorr (0.13 mbar)		1400B-01 or 1400N-01 8890A-70	10
Freeze Dryer 	"Freeze Dryer Pump" Direct Drive pump w/integral oil filtration system CHEMSTAR Low RPM Pump	173 L/min. 160 L/min.		8917A-80 1402N-01	11
Filtration 	"Filtration Pump" Chemical Duty Standard Duty	22 L/min. 22 L/min.		2012B-01 2522B-01	9
Aspiration Cell Harvester Plate Washer 	"Aspiration System" Standard Duty Chemical Duty	88 L/min. x 27.6 in. Hg (80 mbar) 64 L/min. 26.7 in. Hg		2567B-50 2017B-01	13
Cell Culture Aspiration 	"Cell Culture Station" With gauge, regulator, 2000 ml autoclaveable trap with liquid blockade system	34 L/min. x 27.2 in. Hg (93 mbar)		2515B-75	12
Vacuum Oven Drying Degassing 	"Vacuum Drying Pump" Standard Duty Dry Direct-Drive DUOSEAL	100 L/min. 173 L/min. 160 L/min		2581B-50 8917A 1402B-01	14
Gel Dryer 	"GELMASTER™ System" Complete Gel Drying Vacuum System with hose, valve	>50 L/min. of Vapor @ 28 in. Hg		142601	15