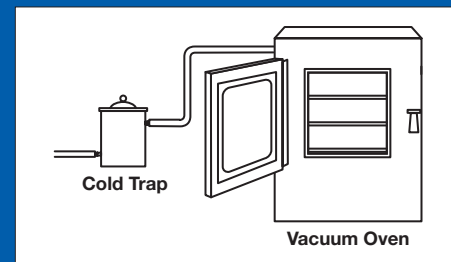


Welch® Dry Pumps

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:

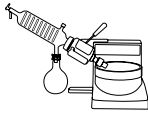

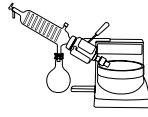



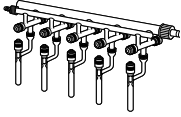

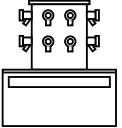

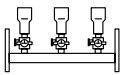





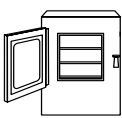



1. May be used without a cold trap for light to moderate vapor loads(see page 32 of Welch lab catalog for complete trap selection table.)
2. Degassing or bake-out/curing may require millitorr vacuum level achieved with oil sealed vacuum pump. Consult your internal application specifications.
3. See page 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)		202801 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