

Welch® Dry Pumps

Applied Vacuum Technology for
Centrifugal Concentrators



Sample:

≤ 2 ml tubes

Water and alcohol solutions²
DNA Pelleting

≤ 50ml tubes

Aqueous, acidic, or organic solutions

New



DRYFAST® PTFE Pump

9 Torr
35 L/min
Cat. No. 2044B-01



DRYFAST ULTRA® PTFE Pump

2 Torr
35 L/min
Cat. No. 2042B-01

**Stand-Alone
Diaphragm Pumps:**

Key Advantages:

Quiet, Oil-free

Virtually maintenance-free solution for laboratory environment.

Cost effective

No oil changes, no cold trap for water/alcohol solutions.

Compact

Smaller footprint than oil pump saves lab space.

Application certified

Developed for selected centrifugal concentrator applications to efficiently evaporate aqueous, acidic, or organic solutions when properly configured and with the chemical resistance to pump aggressive chemicals such as TFA, HCl, formic acid and acetic acid.

Note:

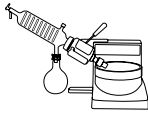

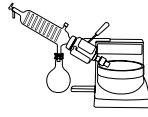



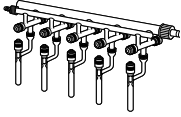

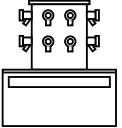

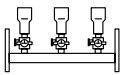





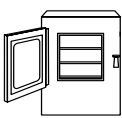



- 1) Cold traps are not required to protect these pumps. Cold traps will condense vapors and increase effective pumping speed of system leading to improved drying times for aqueous, acidic or organic (B.P.≥100 °C) solutions.
- 2) Cold traps are not required for water and alcohol solutions since these solutions are volatile.
- 3) Pumps listed are 115V, 60Hz. See Welch web site for other electrical requirements.

WELCH
A Gardner Denver Product

Gardner Denver Thomas, Inc., Welch Vacuum Technology
7301 N. Central Avenue, Skokie, IL 60077
Phone: (847) 676-8800 Fax: (847) 677-8606
Email: welchvacuum@rt pumps.com
Web: www.welchvacuum.com

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