

# Welch® Dry Pumps

## Applied Vacuum Technology for Centrifugal Concentrators



**Sample:**

**≤ 2 ml tubes**  
Water and alcohol solutions<sup>2</sup>  
DNA Pelleting

**≤ 50ml tubes**  
Aqueous, acidic, or organic solutions

**New**



**Types of Pump:**

**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

### 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:**

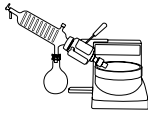

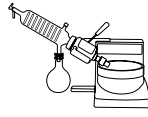



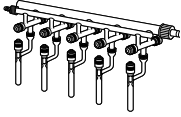

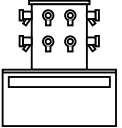

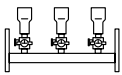





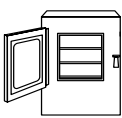



- 1) Cold traps are not required to protect these pumps. Cold traps will condense vapors and increase effective pumping speed of system leading to improved drying times for aqueous, acidic or organic (B.P.≥100 °C) solutions.
- 2) Cold traps are not required for water and alcohol solutions since these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



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