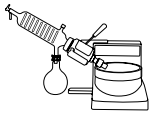
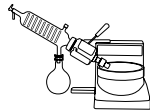
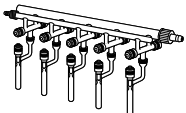
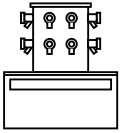
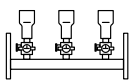
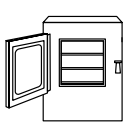
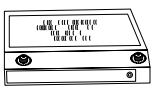


Pump Quick Selection Chart

For Common Lab Applications

Distributed By:

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. 9torr (12mbar)		202501	2-5
Rotovap DMF, Toluene, other non-volatiles Samples 0-5 Liter 	"High Boiler System" DRYFAST ULTRA® System & Pump	35 l/min. 2torr (2.7mbar) 35 l/min. 2torr (2.7mbar)		202801 2042B-01	2-5
Concentrator Samples <2ml x 24, DNA Pelleting 	"Concentrator Pump" DRYFAST ULTRA Pump DRYFAST ULTRA System Compatible with: SpeedVac® & CentriVac®	35 l/min. 2torr (2.7mbar) 35 l/min. 9torr (12mbar)		2042B-01 2044B-01 202501	14 14 13
Vacuum Manifold Schlenk Line 	"Vacuum Manifold Pump" DUOSEAL® & CHEMSTAR® Pumps GEM® System	25 l/min. <1 millitorr (1.3x10 ⁻³ mbar) 31 l/min. 100 millitorr (0.13mbar)		1400B-01 or 1400N-01 8890A-70	6
Freeze Dryer 	"Freeze Dryer Pump" Direct Drive pump with integral oil filtration system CHEMSTAR Low RPM Pump	173 l/min. 160 l/min.		8917A-80 1402N-01	9, 18
Filtration 	"Filtration Pump" Chemical Duty Standard Duty	25 l/min. 22 l/min.		2014B-01 2522B-01	7, 15
Aspiration/Automation Cell Harvester Plate Washer 	"Aspiration System" Standard Duty Chemical Duty	100 l/min. 27.6 in. Hg (80mbar) 70 l/min. 28.5 in. Hg (47mbar)	 (80mbar)	2567B-50 2047B-01	12
Cell Culture Aspiration 	"Cell Culture Station" With gauge, regulator, 1200 ml autoclavable trap with liquid blockade system	34 l/min. 27.2 in. Hg (93mbar)		2515B-75	16, 17
Vacuum Oven Drying Degassing 	"Vacuum Drying Pump" Standard Duty Dry Chemical Duty Dry DUOSEAL	100 l/min. 70 l/min. 160 l/min.		2581B-50 2047B-01 1402B-01	8, 15
Gel Dryer 	"GELMASTER™ System" Complete Gel Drying Vacuum System with hose, valve	>50 l/min. of Vapor @ 28 in. (66mbar)		142601	13