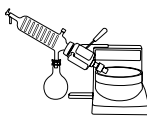

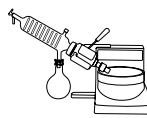



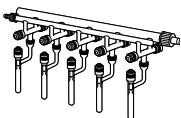

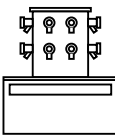

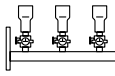





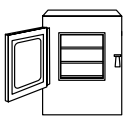





Pump Selection Chart For Common Lab Applications



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	34 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	32 L/min. x 2 Torr (2.7 mbar) 32 L/min. x 2 Torr (2.7 mbar)		202701 2031B-01	3 2
Concentrator Samples <2ml x 24, DNA Pelleting 	"Concentrator Pump" DRYFAST ULTRA Pump DRYFAST ULTRA SYSTEM Compatible with: SpeedVac® & CentriVac®	32 L/min. x 2 Torr (2.7 mbar) 32 L/min. x 2 Torr (2.7 mbar)		2031B-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) 31 L/min. 100 millitorr (0.13 mbar)		1400B-01 or 1400N-01 8890A-70	8
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	9
Filtration 	"Filtration Pump" Chemical Duty Standard Duty	22 L/min. 22 L/min.		2012B-01 2522B-01	10
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 (106 mbar)		2567B-50 2017B-01	11
Tissue Culture Aspiration 	"Tissue Culture System" With gauge, regulator, liquid blockade system	45 L/min. x 27.6 in. Hg (80 mbar)		2546B-01	11
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	12
Gel Dryer 	"GELMASTER™ System" Complete Gel Drying Vacuum System with hose, valve	>50 L/min. of Vapor @ 28 in. Hg (66 mbar)		142601	13