











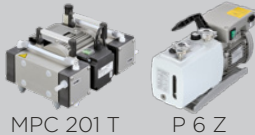


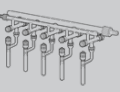



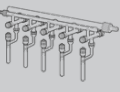





## Selection chart for common lab applications

Application	Overview of system	Flow rate/X Vacuum	Model
General vacuum work	Dry running pump, compact and portable	38 l/min 8 mbar	 MPC 301 Z 412722
Vacuum/pressure filtration Glass filtration assemblies SPE 	Filtration pump with dial gauge, regulator and separator	15 l/min 100 mbar	 MPC 090 E 412021
Degassing, Desiccation 	Dry piston pump with vacuum/pressure gauge, regulator, silencer and trap	18 l/min 133 mbar	 WOB-L 2522 2522C-02
Rotary Evaporation Non-Volatiles Boiling point 40 °C Samples 0-5 litres 	Economic PTFE dry pump with vacuum regulation	43 l/min < 5 mbar	 MPC 302 Z 414722
Rotary Evaporation Non-Volatiles Boiling point 40 °C Sample 0-1 litres 	Vacuum system with ecoflex speed control and built-in solvent library	20 l/min 2 mbar	 LVS 105 T - 10 ef 114184
Vacuum oven Drying Degassing 	For aqueous, acidic or basic samples	75 l/min 2 mbar	 MPC 601 T 412743
Vacuum Concentrator 	Minimum maintenance	36 l/min 2 mbar	 MPC 201 T P 6 Z 412543 322003
	With cold trap	77 l/min 2x10 <sup>-3</sup> mbar	
Freeze dryer Lyophilizing 	Combination pump system Completely mounted with oil mist separator and solvent trap	97 l/min 2x10 <sup>-3</sup> mbar	 Chemvac P 6 Z - 101 109030
Vacuum manifold Schlenkline 	Compact, oil free vacuum pump No trapping required	150 l/min 7x10 <sup>-2</sup> mbar	 ChemStar Dry 2070C-02
Aspiration 	Aspiration and filtration system with autoclavable container and handheld pipettor set	15 l/min 100 mbar	 Biovac 106 + Handvac, Biovac 106 41 PP-Bottle 112037, 112037-04
Molecular Distillation/ Sublimation 	For high vacuum and UHV applications	50 l/s 2x10 <sup>-7</sup> mbar	 CDK 180 101240
Vacuum controller		Measuring range 1050 - 1 mbar	 VCB 521 600053
Vacuum gauge	Multi range vacuum gauge with chemical resistant sensor	Measuring range 1050 - 10 <sup>-3</sup> mbar	 PIZA 111 cr-gold 600074