

# chiller selection guide

60Hz

		benchtop chillers			portable 6000 series chillers					portable DuraChill™ chillers <sup>3</sup>								non-refrigerated coolers	
																			
		MM	LM	LS	6200	6300	6500	6700	6100	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Water Cooled	Water Cooled	Air Cooled	Water Cooled
	Cooling Capacity @ 20°C <sup>1</sup>	410 W	520 W	1190 W	700 W	1280 W	1775 W	2200 W	2650 W	6860	DCA200	DCA300	DA500	DA750	DA1000	6960	DCW300	3370	4100
	Temperature Range	-5° to +50°C	-10° to +30°C	-20° to +40°C	-10° to +40°C (-10° to +70°C with heater option) <sup>2</sup>					5° to +35°C	5° to +35°C	5° to +35°C	0° to 30°C	0° to 30°C	0° to 30°C	5° to 35°C	5° to 35°C	Ambient +5° to 70°C	Facility Water +10° to 60°C
	Temperature Stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.5°C	±0.5°C	±0.5°C	±1.1°C	±1.1°C	±1.1°C	±0.5°C	±0.5°C		±0.4°C
Turbine Pump	Maximum Pressure psi (bar)			43.4 (3.0)	100 (6.9)	100 (6.9)	100 (6.9)	100 (6.9)	100 (6.9)	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	62 (4.3)	100 (6.9)
	Maximum Flow gpm (l/min)			2.6 (9.8)	3.5 (13.2)	3.5 (13.2)	3.5 (13.2)	3.5 (13.2)	3.5 (13.2)	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	CF <sup>6</sup>	5.4 (20.5)	3.5 (13.2)
Positive Displacement	Maximum Pressure psi (bar)				100 (6.9)	100 (6.9)	100 (6.9)	100 (6.9)	100 (6.9)	100 (6.9)						100 (6.9)		100 (6.9)	
	Maximum Flow gpm (l/min)				1.0 (3.8)	1.0 (3.8)	1.0 (3.8)	3.5 (13.2)	3.5 (13.2)	3.5 (13.2)						3.5 (13.2)		2.4 (9.1)	
Centrifugal Pump	Maximum Pressure psi (bar)	14.5 (1.0)	14.5 (1.0)	14.5 (1.0)	10 (.69)	10 (.69)	10 (.69)	10 (.69)	10 (.69)		25 (1.7)	25 (1.7)	33 (2.3)	33 (2.3)	40 (2.7)		25 (1.7)		
	Maximum Flow gpm (l/min)	3.5 (13.2)	3.5 (13.2)	3.9 (14.8)	4.1 (15.5)	4.1 (15.5)	4.1 (15.5)	4.1 (15.5)	4.1 (15.5)		10 (38)	10 (38)	20 (76)	20 (76)	25 (95)		10 (38)		
	WhisperCool™			○				○	○										

1. Cooling Capacity based on 20°C (68°F) ambient temperature and a 50%/50% mix of ethylene glycol and distilled water as coolant.  
 2. Heater option extends cooling range to 50°C, provides heat up to 70°C.  
 3. Cooling capacity for 5.2 - 10.5 kw chillers based on 20°C (68°F) ambient temperature and a 50%/50% mix of ethylene glycol and distilled water as coolant. Cooling capacity for 16.3 - 33.5 kw chillers based on 35°C/95°F entering air, 49°C/120°F condensing temperature, and 10°C/50°F leaving water. Allowance made for heat gain from pump.  
 4. Cooling capacity for 3370 based on 11°C temperature differential between ambient air temperature and cooling fluid temperature.  
 5. Cooling capacity for 4100 given at 30°C using 20°C facility water.  
 6. Consult factory for non-standard pump options.

### A Variety of Pump Options

- Turbine Pumps:** Provides moderate flow but at higher pressures which make them well suited to applications that require higher pressure or experience a higher pressure drop. A robust design makes turbine pumps very reliable and more forgiving to impurities in the fluid stream.
- Positive Displacement:** Have performance characteristics similar to turbine pumps and are suitable for high viscosity fluids, or pumping higher or further from the cooling product and the application.
- Centrifugal Pump (Magnetic Drive):** Offer higher relative flow rates at lower pressures and are suitable for applications that are in close proximity to the chiller or require lower pressure. Centrifugal pumps are more sensitive to pressure drops.



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