

# Chillers Selection Guide

## Benchtop and Portable 6000 Series Chillers, Non-Refrigerated Coolers - 60 & 50Hz

	Benchtop Chillers			Portable 6000 Series Chillers					Non-Refrigerated Coolers	
	MM	LM	LS	6200	6300	6500	6700	6100	3370	4100
Cooling Capacity @ 20°C <sup>1</sup> (W) 60Hz/50Hz	460/410	560/520	1290/1190	950/800	1430/1280	1800/1775	2350/2250	2900/2750	4000 <sup>3</sup>	10,000 <sup>4</sup>
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>					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		±0.4°C
Turbine Pump	Maximum Pressure psi (bar) 60Hz/50Hz		43.4 (3.0) 32 (2.2)	100 (6.9) 83 (5.7)	100 (6.9) 83 (5.7)	100 (6.9) 83 (5.7)	100 (6.9) 83 (5.7)	100 (6.9) 83 (5.7)	62 (4.3) 50 (3.4)	100 (6.9) 100 (6.9)
	Maximum Flow gpm (l/min) 60Hz/50Hz		2.6 (9.8) 2.2 (8.3)	3.5 (13.2) 2.9 (11)	3.5 (13.2) 2.9 (11)	3.5 (13.2) 2.9 (11)	3.5 (13.2) 2.9 (11)	3.5 (13.2) 2.9 (11)	5.4 (20.5) 4.5 (17.1)	3.5 (13.2) 3.5 (13.2)
Positive Displacement Pump	Maximum Pressure psi (bar) 60Hz/50Hz			100 (6.9) 83 (5.7)	100 (6.9) 83 (5.7)	100 (6.9) 83 (5.7)	100 (6.9) 83 (5.7)	100 (6.9) 83 (5.7)	100 (6.9) 100 (6.9)	
	Maximum Flow gpm (l/min) 60Hz/50Hz			1.0 (3.8) .95 (3.6)	1.0 (3.8) .95 (3.6)	1.0 (3.8) .95 (3.6)	3.5 (13.2) 2.9 (11)	3.5 (13.2) 2.9 (11)	2.4 (9.1) 2 (7.6)	
Centrifugal Pump	Maximum Pressure psi (bar) 60Hz/50Hz		14.5 (1.0) 12.5 (.9)	14.5 (1.0) 10.5 (.7)	10 (.69) 9.5 (.66)	10 (.69) 9.5 (.66)	10 (.69) 9.5 (.66)	10 (.69) 9.5 (.66)	10 (.69) 9.5 (.66)	
	Maximum Flow gpm (l/min) 60Hz/50Hz		3.5 (13.2) 3.0 (11.4)	3.5 (13.2) 3.0 (11.4)	3.9 (14.8) 3.4 (12.9)	4.1 (15.5) 3.9 (14.7)	4.1 (15.5) 3.9 (14.7)	4.1 (15.5) 3.9 (14.7)	4.1 (15.5) 3.9 (14.7)	
WhisperCool®			o				o	o		
Overall Dimensions (L x W x H)	20 x 10 x 17 in 50.8 x 25.4 x 43.2 cm		23.9 x 10 x 19 in 60.7 x 25.4 x 48.3 cm	27.6 x 14.5 x 22.6 in 70.2 x 36.8 x 57.5 cm				20.5 x 15 x 22.3 in 52 x 38.1 x 56.6 cm	27.6 x 14.5 x 22.6 in 70.2 x 36.8 x 57.5 cm	
Electrical Requirements VAC/Hz/Ph/A	Turbine Pump 60Hz/50Hz		120/60/1/12 240/50/1/6	120/60/1/12.2 240/50/1/6.8	120/60/1/13.1 240/50/1/7.3	120/60/1/16 240/50/1/8.9	230/60/1/11.9 240/50/1/11.9	230/60/1/12.2 240/50/1/12.2	120/60/1/5.5 240/50/1/3	208-240/50-60/1/3 240/50/1/3
	Positive Displacement Pump 60Hz/50Hz			120/60/1/12.2 240/50/1/6.8	120/60/1/13.1 240/50/1/7.3	120/60/1/16 240/50/1/8.9	230/60/1/11.9 240/50/1/11.9	230/60/1/12.2 240/50/1/12.2	120/60/1/5.5 240/50/1/3	
	Centrifugal Pump 60Hz/50Hz		120/60/1/12 240/50/1/4.5	240/50/1/6	120/60/1/9.5 240/50/1/5.6	120/60/1/10.4 240/50/1/5.9	120/60/1/13.5 240/50/1/7.2	230/60/1/9.2 240/50/1/9.2	230/60/1/9.5 240/50/1/9.5	
Reservoir Capacity gal (L)		0.7 (2.65)				1.1 (4.2)			1.1 (4.2)	
Process Connections				1/2" (F) NPT						1/2" (F) NPT

- Cooling capacity based on 20°C (68°F) ambient temperature and a 50%/50% mix of ethylene glycol and distilled water as coolant.
- Heated option extends cooling range to 50°C, provides heat up to 70°C.
- Cooling capacity for 3370 based on 11°C temperature differential between ambient air temperature and cooling fluid temperature.
- Cooling capacity for 4100 given at 30°C using 20°C facility water.



Benchtop Chiller - LS



Portable 6000 Series Chiller



4100

3370