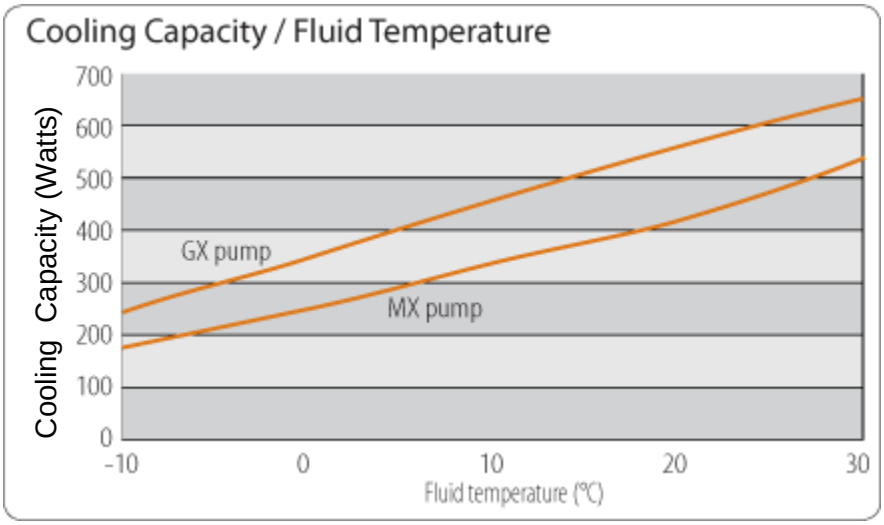
Technical Information

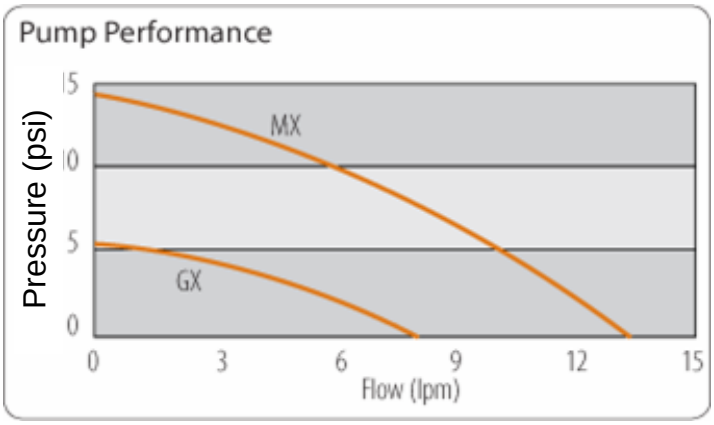
Model LM61 60Hz Compact Chiller Specifications

Performance 120V, 60Hz					
Working temperature range [1]	-10° to +30°C / +14° to +86°F				
Operating temperature range [2]	-10° to +30°C / +14° to +86°F				
Temperature Stability	±0.1°C (±0.18°F)				
Cooling capacity	Ethylene Glycol & Water (50/50 mix)				
Centrifugal Pump - GX			Centrifugal Pump - MX		
@	Watts	BTU/Hr	@	Watts	BTU/Hr
-10°C	230	785	-10°C	170	580
0°C	350	1194	0°C	250	853
+10°C	470	1603	+10°C	340	1160
+20°C	560	1910	+20°C	420	1433
+30°C	650	2218	+30°C	540	1842

1. The temperature that the chiller can reach without an external heating or cooling source.
2. The temperature range in which the chiller can control temperature, limited by electronics.



Pump option	GX - Centrifugal	MX - Centrifugal
Maximum Flow	7.9 lpm / 2.1 gpm	13.2 lpm / 3.5 gpm
Maximum Pressure	5.1 psi / 0.35 bar	14.5 psi / 1.0 bar
Maximum Head	3.6 m / 11.8 ft H_2O	10.2 m / 33.5 ft H_2O



Specifications are subject to change. Performance data based on 120V or 230V, 60hz input power, 20°C ambient temperature, and a 50/50 mix of ethylene glycol and distilled water as coolant.

Model LM62 50Hz Compact Chiller Specifications

Performance 240V, 50Hz	
Working temperature range [1]	-10° to +30°C / +14° to +86°F
Operating temperature range [2]	-10° to +30°C / +14° to +86°F
Temperature Stability	±0.1°C (±0.18°F)
Cooling capacity	Ethylene Glycol & Water (50/50 mix)

Centrifugal Pump -- GY			Centrifugal Pump -- MY		
@	Watts	BTU/Hr	@	Watts	BTU/Hr
-10°C	140	478	-10°C	110	375
0°C	250	854	0°C	170	580
+10°C	390	1332	+10°C	280	955
+20°C	520	1774	+20°C	390	1330
+30°C	600	2047	+30°C	500	1706

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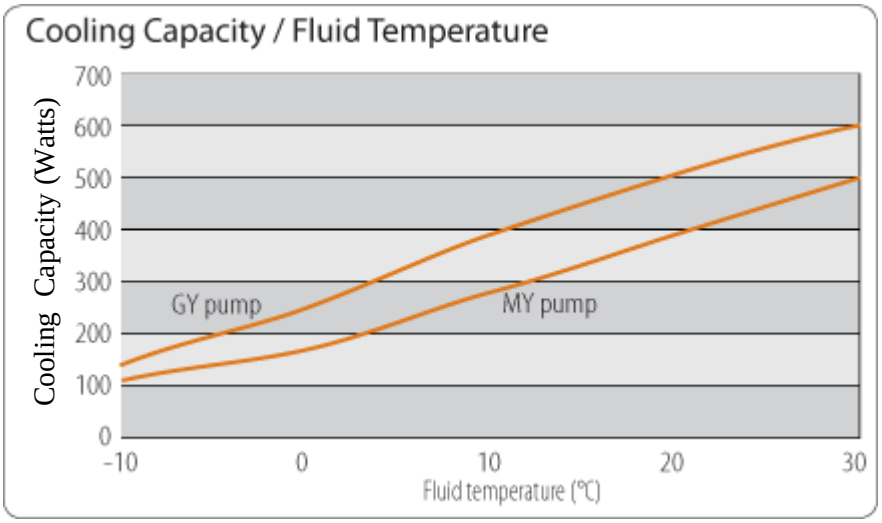
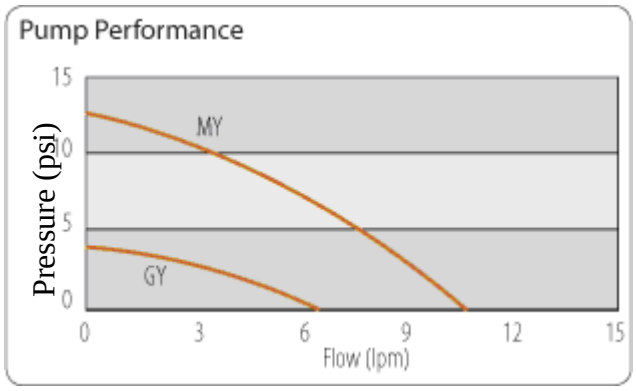


Pump option	**GY - Centrifugal**	**MY - Centrifugal**
Maximum Flow	6.8 lpm / 1.8 gpm	11.4 lpm / 3 gpm
Maximum Pressure	4.4 psi / 0.30 bar	12.5 psi / 0.9 bar
Maximum Head	3 m / 10 ft H_2O	8.8 m / 28.8 ft H_2O



Specifications are subject to change. Performance data based on 240V, 50hz input power, 20°C ambient temperature, and a 50/50 mix of ethylene glycol and distilled water as coolant.

Model MM71 60Hz Compact Chiller Specifications

Performance 120V, 60Hz

Working temperature range [1]	-5° to +50°C / +23° to +122°F
Operating temperature range [2]	-5° to +50°C / +23° to +122°F
Temperature Stability	±0.1°C (±0.18°F)
Cooling capacity	Ethylene Glycol & Water (50/50 mix)

Centrifugal Pump - GX			Centrifugal Pump - MX		
@	Watts	BTU/Hr	@	Watts	BTU/Hr
-5°C	130	444	-5°C	115	392
0°C	215	734	0°C	195	666
+10°C	320	1092	+10°C	305	1042
+20°C	460	1570	+20°C	435	1484
+30°C	490	1672	+30°C	465	1588
+40°C	520	1773	+40°C	505	1725
+50°C	550	1877	+50°C	535	1827

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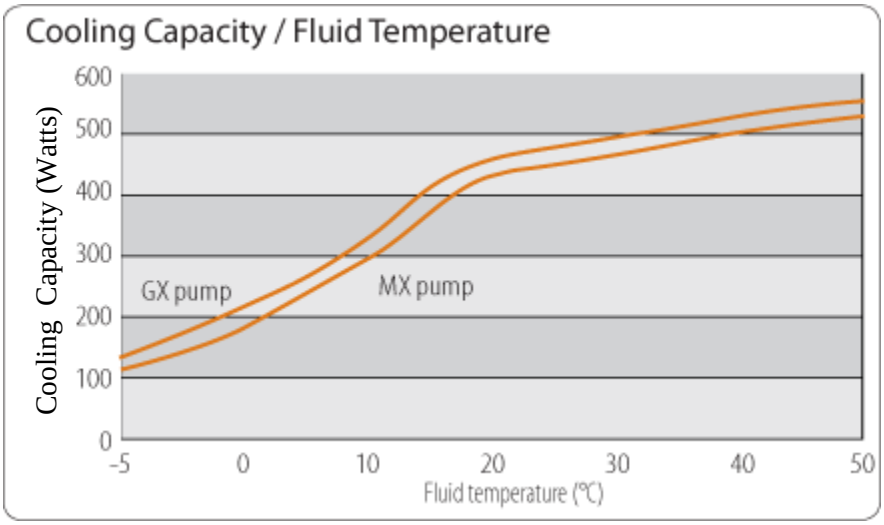
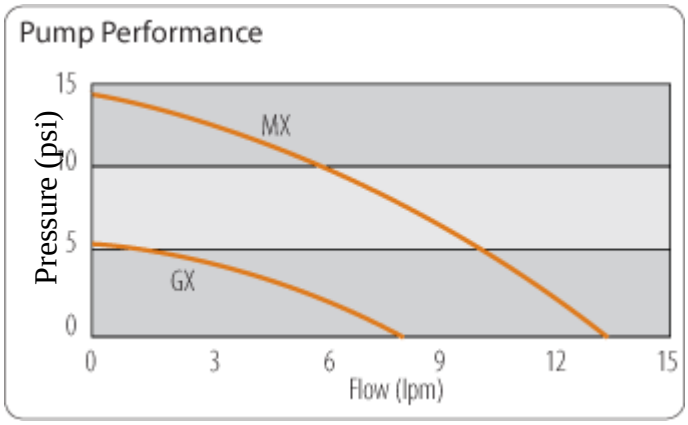


Pump option	GX - Centrifugal	MX - Centrifugal
Maximum Flow	7.9 lpm / 2.1 gpm	13.2 lpm / 3.5 gpm
Maximum Pressure	5.1 psi / 0.35 bar	14.5 psi / 1.0 bar
Maximum Head	3.6 m / 11.8 ft H_2O	10.2 m / 33.5 ft H_2O



Specifications are subject to change. Performance data based on 120V or 230V, 60hz input power, 20°C ambient temperature, and a 50/50 mix of ethylene glycol and distilled water as coolant.

Model MM72 50Hz Compact Chiller Specifications

Performance 240V, 50Hz	
Working temperature range [1]	-5° to +50°C / +23° to +122°F
Operating temperature range [2]	-5° to +50°C / +23° to +122°F
Temperature Stability	±0.1°C (±0.18°F)
Cooling capacity	Ethylene Glycol & Water (50/50 mix)

Centrifugal Pump -- GY			Centrifugal Pump -- MY		
@	Watts	BTU/Hr	@	Watts	BTU/Hr
-5°C	115	392	-5°C	105	358
0°C	190	648	0°C	175	596
+10°C	290	989	+10°C	270	921
+20°C	410	1399	+20°C	390	1330
+30°C	440	1503	+30°C	420	1434
+40°C	470	1603	+40°C	450	1535
+50°C	495	1689	+50°C	480	1637

1. The temperature that the chiller can reach without an external heating or cooling source.
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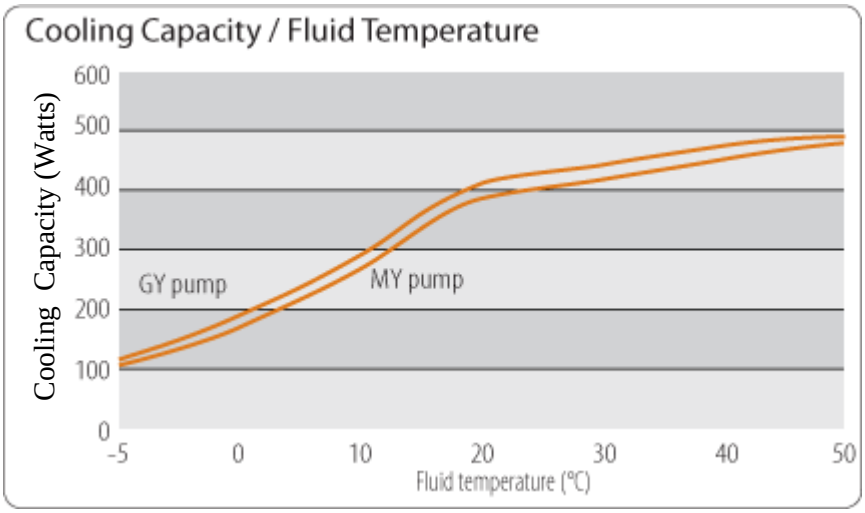
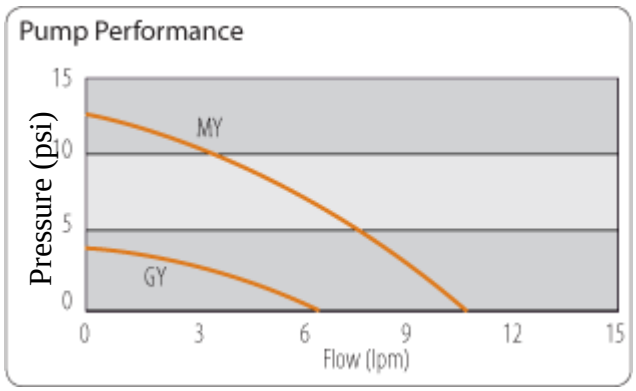


Pump option	**GY - Centrifugal**	**MY - Centrifugal**
Maximum Flow	6.8 lpm / 1.8 gpm	11.4 lpm / 3 gpm
Maximum Pressure	4.4 psi / 0.30 bar	12.5 psi / 0.9 bar
Maximum Head	3 m / 10 ft H_2O	8.8 m / 28.8 ft H_2O



Specifications are subject to change. Performance data based on 240V, 50hz input power, 20°C ambient temperature, and a 50/50 mix of ethylene glycol and distilled water as coolant.

General Information & Specifications

Safety	
Auto-restart on power failure	Yes
Low flow alarm and power cutoff	Yes
High temperature safety	Yes
High temperature limit	Yes (user adjustable)
Low temperature limit	Yes (user adjustable)

Compliance	
TUV (Canada, US)	Yes
CE	Yes
WEEE	Compliant
RoHS	Compliant

Construction	
Outer case	Epoxy powder coated steel
Wetted parts	Brass, Copper, Stainless Steel, EPDM Rubber, Alcryn, Nylon, PVC, and Polyethylene
Unit dimensions (L x W x H)	LM-Series: 20 x 10 x 19 in. / 50.8 x 25.4 x 48.3 cm MM-Series: 20 x 10 x 17 in. / 50.8 x 25.4 x 43.2 cm
Unit weight	34.5 kg / 75 lbs
Reservoir volume	2.65 L / 0.7 gal
Heat exchanger	Stainless steel copper-brazed plate
Noise Rating (measured 1m away, 1.5m from the ground)	LM-Series: 58 dBA MM-Series: 56 dBA
Compressor	Hermetic
Refrigerant type	LM-Series: R-404a MM-Series: R-134a

Controller	
Display type	Digital, LED
Temperature stability	±0.1°C
Display resolution	0.1°
Temperature Units	°C or °F
User calibration	Temperature

Setup	
Recommended fluid(s)	50/50 mix of distilled water and ethylene glycol
Incompatible fluids	Corrosive or flammable fluids; Deionized water package available
Ambient temperature operating range	5° to 35°C / 41° to 95°F
Maximum relative humidity	80% non-condensing
Operating power requirements	LM61: 115V, 12A, 60Hz LM62: 220V, 5A, 50Hz MM71: 115V, 8A, 60Hz MM72: 220V, 4.5A, 50Hz
Fluid inlet/outlet	0.5 inch female brass NPT
Recommended tubing I.D.	0.375 inch / 9.5 mm (minimum)

Specifications subject to change without notice.

Environmental Conditions Indoor use only

Maximum Altitude:	2000 meter
Operating Ambient:	5° to 35°C (41° to 95°F)
Relative Humidity:	80%, non-condensing
Installation Category:	II
Pollution Degree:	2