

Technical Information

Controller Specifications

Temperature Set Point Resolution	±0.1°C
Temperature Stability	±0.5°C (±0.9°F)
Temperature Units	°C or °F
Pressure Units	PSI or kPa
Pressure Display Resolution	1 PSI / 0.1 kPa
Flow Rate Units	GPM or LPM
Flow Rate Display Resolution	0.1 GPM / 1 LPM

Performance Specifications

Model		Air-Cooled 58XX & 68SS Series	Water-Cooled 59XX & 69XX Series
Compressor	Nominal HP	1.5	
Temperature Range (without heater option)	°F °C	41° to 95°F 5° to 35°C	
Temperature Range (with heater option)	°F °C	41° to 194°F 5° to 90°C	
Temperature Stability	°F °C	±0.9°F ±0.5°C	
Cooling Capacity ¹	Tons Watts BTU/hour	1.48 5200 17,732	1.8 6328 21,600
Nominal Evaporator Flow ²	US GPM	3.72	4.3
Refrigerant		R134A	
Pressure ³	PSIG	60	
Pump ³	HP	1/3	
Fan(s)	HP	1/6	N/A
Condenser Discharge Air Flow	CFM	1070	N/A
Water Condenser Flow – Tower Water	US GPM	N/A	5.4
Water Condenser Connections	Inches	N/A	0.75
Process Connections (inlet / outlet)	Inches	0.5	
Reservoir Tank Capacity	US Gallons (liters)	3.5 (13.25)	
Dimensions (L x W x H)	Inches cm	30.5 x 19 x 26" 78 x 48 x 66 cm	
Shipping Weight	Pounds kg	340 154	

1. Capacity of air-cooled units based on 68°F (20°C) entering air and 68°F (20°C) leaving water; capacity of water-cooled units based on 85°F (29°C) entering water.

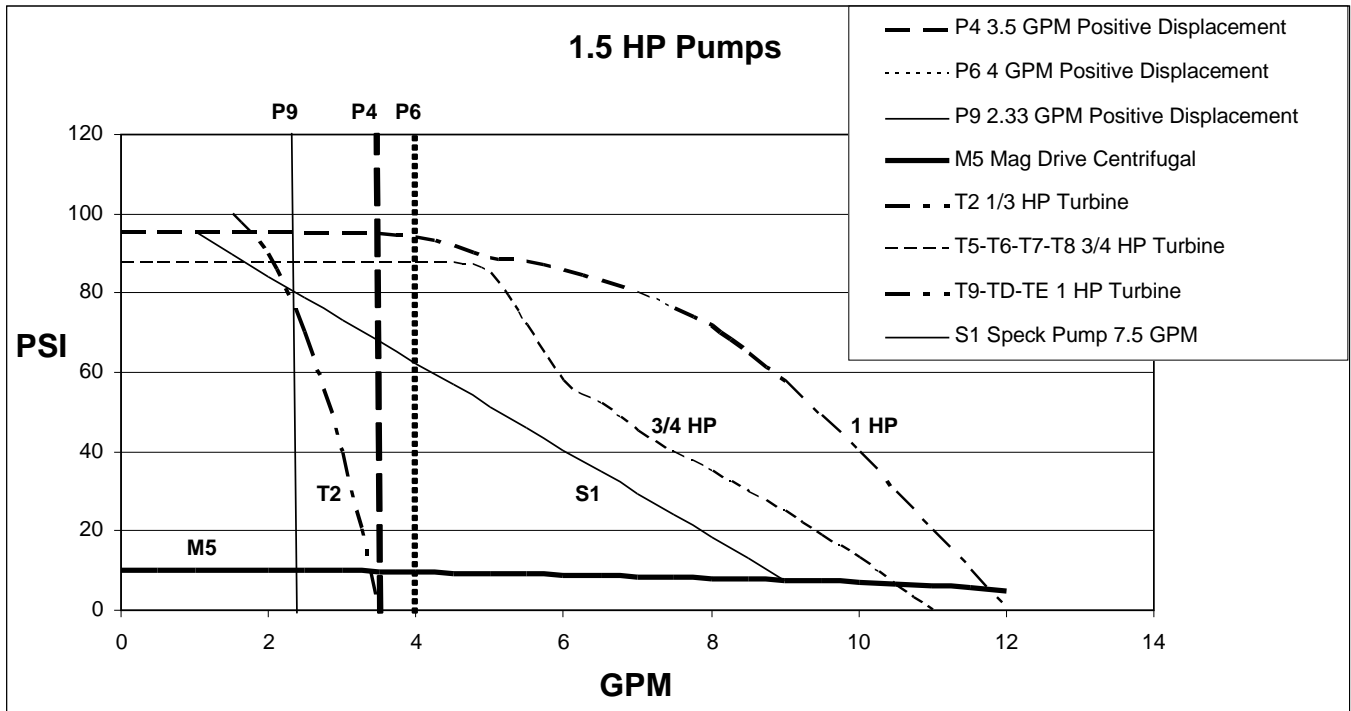
2. Chiller flow rate based on 2.4 US GPM ton (0.54m³/hr/ton).

Environmental Conditions Indoor use only
 Maximum Altitude: 2000 meters
 Operating Ambient: 5° to 35°C
 Relative Humidity: 80% for temperatures to 30°C
 Installation Category: II
 Pollution Degree: 2

Electrical Specifications

MAXIMUM OPERATING CURRENT CAN BE FOUND ON THE UNITS ELECTRICAL NAMEPLATE ON THE REAR PANEL OF THE CHILLER	"P0" No pump		"P4" "P6" "P9" POSITIVE DISPLACEMENT PUMPS		"M5" "M6" MAGNETIC DRIVE PUMPS *		"T2" "TC" 1/3 HP TURBINE PUMPS		"T5" "T6" "T7" "T8" 3/4 HP TURBINE PUMPS		"T9" "TD" "TE" 1 HP TURBINE PUMPS	
	MODEL NUMBER	MAX. OPERATING CURRENT	FUSE / CIRCUIT BREAKER SIZE	MAX. OPERATING CURRENT	FUSE / CIRCUIT BREAKER SIZE	MAX. OPERATING CURRENT	FUSE / CIRCUIT BREAKER SIZE	MAX. OPERATING CURRENT	FUSE / CIRCUIT BREAKER SIZE	MAX. OPERATING CURRENT	FUSE / CIRCUIT BREAKER SIZE	MAX. OPERATING CURRENT
AIR-COOLED WITH HEATERS												
585x3 - 240V / 1PH / 50HZ / 3KW HEATER	26.3	40	29.5	40	27	40	30.2	40	33.9	45	NA	
585x9 - 240V / 1PH / 50HZ / 9KW HEATER	51.3	65	54.5	70	52	65	55.2	70	58.9	70	NA	
586x3 - 208-230V / 1PH / 60HZ / 3KW HEATER	26.6	40	29.4	40	27.3	40	29.5	40	31.4	40	35.1	50
586x9 - 208-230V / 1PH / 60HZ / 9KW HEATER	51.6	65	54.4	70	52.3	70	54.5	70	56.4	70	60.1	70
587x3 - 208-230V / 3PH / 50-60HZ / 3KW HEATER	16.7	25	19.9	30	17.4	25	18.5	25	19.26	25	20.7	30
587x7 - 208-230V / 3PH / 50-60HZ / 7.5KW HEATER	27.5	35	30.7	40	28.2	35	29.3	40	30.06	40	31.5	40
587x9 - 208-230V / 3PH / 50-60HZ / 9KW HEATER	31.2	40	34.4	45	31.9	40	33	45	33.76	45	35.2	45
588x3 - 460V / 3PH / 60HZ / 3KW HEATER	8.85	12	11.05	15	NA		9.75	15	10.13	15	10.45	15
588x9 - 460V / 3PH / 60HZ / 9KW HEATER	16.05	20	18.25	25			16.95	20	17.33	25	17.65	25
589x3 - 380V / 3PH / 50HZ / 3KW HEATER	7.55	13	NA		NA		8.45	12	8.84	15	9.55	15
589x9 - 380V / 3PH / 50HZ / 9KW HEATER	12.05	15	NA				12.95	20	13.34	20	14.05	20
WATER-COOLED WITH HEATERS												
595x3 - 240V / 1PH / 50HZ / 3KW HEATER	25.2	40	28	40	25.9	40	29.1	40	32.8	45	NA	
595x9 - 240V / 1PH / 50HZ / 9KW HEATER	50.2	60	53	65	50.9	65	54.1	65	57.8	70	NA	
596x3 - 208-230V / 1PH / 60HZ / 3KW HEATER	25.5	40	28.3	40	26.2	40	28.4	40	30.3	40	34	45
596x9 - 208-230V / 1PH / 60HZ / 9KW HEATER	50.5	60	53.3	65	51.2	60	53.4	65	55.3	70	59	70
597x3 - 208-230V / 3PH / 50-60HZ / 3KW HEATER	15.6	25	18.4	25	16.3	25	17.4	25	18.16	25	19.6	25
597x7 - 208-230V / 3PH / 50-60HZ / 7.5KW HEATER	26.4	35	29.2	40	27.1	35	28.2	40	28.96	40	30.4	40
597x9 - 208-230V / 3PH / 50-60HZ / 9KW HEATER	30.1	40	32.9	40	30.8	40	31.9	40	32.66	40	34.1	45
598x3 - 460V / 3PH / 60HZ / 3KW HEATER	8.3	12	10.5	15	NA		9.2	15	9.58	15	9.9	15
598x9 - 460V / 3PH / 60HZ / 9KW HEATER	15.5	20	17.7	25			16.4	25	16.78	25	17.1	25
599x3 - 380V / 3PH / 50HZ / 3KW HEATER	7	10	NA		NA		7.9	12	8.29	12	9	15
599x9 - 380V / 3PH / 50HZ / 9KW HEATER	11.5	15	NA				12.4	20	12.79	20	13.5	20
AIR-COOLED												
685x - 240V / 1PH / 50HZ	18	25	20.8	30	18.7	30	21.9	30	25.6	40	NA	
686x - 208-230V / 1PH / 60HZ	18.3	25	21.1	30	19	30	21.2	30	23.1	35	26.8	40
687x - 208-230V / 3PH / 50-60HZ	13.7	20	16.5	25	14.4	25	15.5	25	16.26	25	17.7	25
688x - 460V / 3PH / 60HZ	6.45	10	8.65	12	NA		7.35	12	7.73	12	8.05	12
689x - 380V / 3PH / 50HZ	6.05	10	NA				6.95	12	7.34	12	8.05	12
WATER-COOLED												
695x - 240V / 1PH / 50HZ	16.9	25	19.7	30	17.6	25	20.8	30	24.5	35	NA	
696x - 208-230V / 1PH / 60HZ	17.2	25	20	30	17.9	25	20.1	30	22	30	25.7	35
697x - 208-230V / 3PH / 50-60HZ	12.1	20	14.9	25	12.8	20	13.9	20	14.66	25	16.1	25
698x - 460V / 3PH / 60HZ	5.9	10	8.1	12	NA		6.8	10	7.18	12	7.5	12
699x - 380V / 3PH / 50HZ	5.5	10	NA				6.4	10	6.79	10	7.5	12

Pump for 1-1/2 HP Chillers



Specifications subject to change without notice.