
WATER COOLED

Catalog Supplement



High Efficiency

70 Ton Scroll Module

MS70X6__W

-Append to Multistack Catalog "Water Cooled Product Data Catalog"



The Leader in Modular Chillers

Performance Table

Single Module MS70X6_W			Entering Condenser Water Temperature												
Leaving Chilled Water °F	75°F			80°F			85°F			90°F			95°F		
	Tons	KW	EER	Tons	KW	EER	Tons	KW	EER	Tons	KW	EER	Tons	KW	EER
40	67.4	44.8	18.0	65.0	47.0	16.6	63.0	48.8	15.5	61.0	52.0	14.1	59.0	54.8	12.9
42	69.5	45.2	18.4	67.5	47.4	17.1	65.5	49.0	16.0	63.5	52.2	14.6	61.3	55.0	13.4
44	72.2	45.4	19.1	70.2	47.6	17.7	68.2	50.0	16.4	66.0	52.4	15.1	63.8	55.2	13.9
45	73.5	45.6	19.3	71.5	47.8	17.9	69.5	50.1	16.6	67.3	52.6	15.4	65.0	55.4	14.1
46	75.0	45.8	19.6	72.8	48.0	18.2	70.8	50.2	16.9	68.5	52.8	15.6	66.3	55.5	14.3
48	77.8	46.0	20.3	75.6	48.2	18.8	73.5	50.4	17.5	71.2	53.0	16.1	68.8	55.8	14.8
50	80.8	46.4	20.9	78.5	48.4	19.4	76.3	50.8	18.0	74.0	54.2	16.4	71.5	56.0	15.3

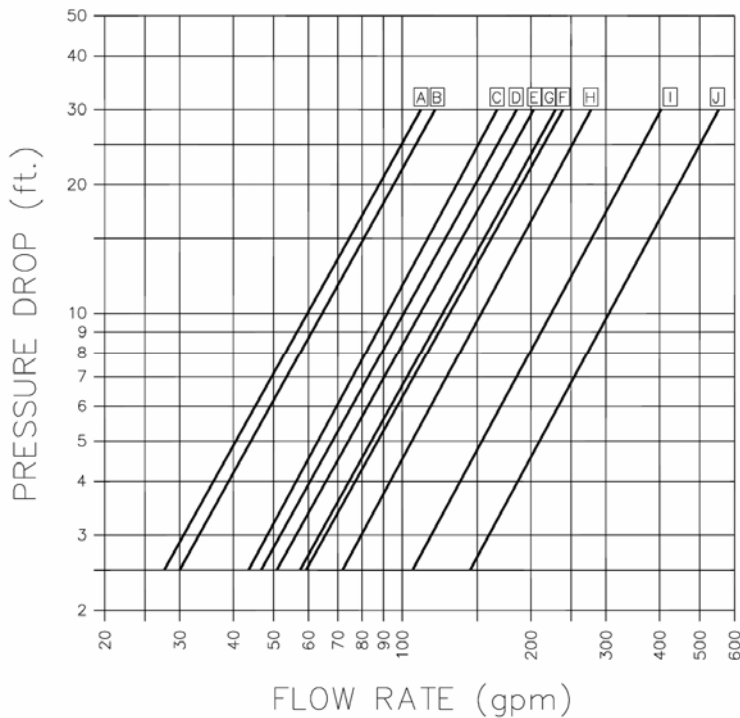
All performance data is based on a 10°F chilled water temperature drop through the evaporator and condenser. For total chiller performance multiply above output (Tons) and input (kW) by the number of modules. For selection procedures, see selection example on page 5 of “Water Cooled Product Data Catalog.”

NOTE: With sufficient notice, 1/2 modules are available when used with one or more full modules. (These modules are physically identical to full modules but with only one refrigerant circuit.)

Water Pressure Drop

Evaporator and condenser water pressure drops are provided in Figure 1 below, using lines G and H for the MS70X. To use Figure 1, divide the total chilled water GPM by the number of modules in the chiller.

Figure 1



- A - MS20C4_W CONDENSER
- A - MS30C4_W CONDENSER
- B - MS20C4_W EVAPORATOR
- B - MS30C4_W EVAPORATOR
- C - MS30C5_W CONDENSER
- C - MS30C5_W EVAPORATOR
- C - MS50B4_W CONDENSER
- D - MS50B4_W EVAPORATOR
- E - MS50Z6_W EVAPORATOR
- F - MS50Z6_W CONDENSER
- G - MS70X6_W EVAPORATOR
- H - MS70X6_W CONDENSER
- I - MS130R1_W EVAPORATOR
- J - MS130R1_W CONDENSER

System Wire & Fuse Sizing Specifications

- Compressor Rated Load Amps (RLA) and Locked Rotor Amps (LRA)

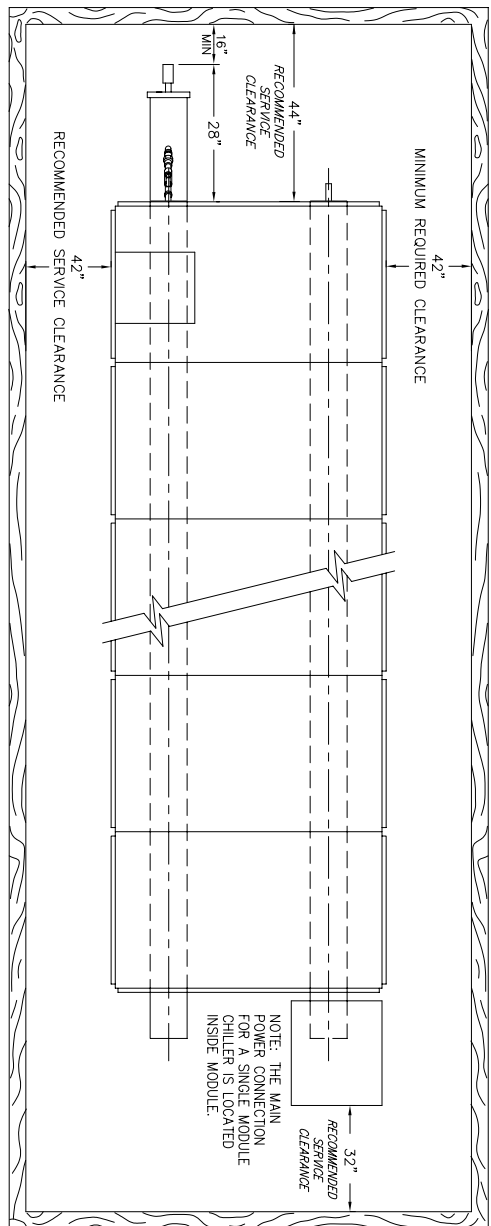
Volts/Hz/PH	Compressor	
	RLA	LRA
208/60/3	89	599
230/60/3	80	599
460/60/3	40	310
575/60/3	32	239

Note: For wire sizing and fuse sizing see page 7 of "Water Cooled Product Data Catalog"

General Data Table

Model	MS70X6	W
Compressor Type	Scroll	
Dry Weight (lbs. each)	390	
Normal Capacity (hp ea.)	30	
Quantity	2	
Oil Charge (pints)	13.3	
Evaporator	Brazen Plate	
Weight (lbs. each)	243	
Water Storage (gal. each)	6.90	
Circuit Configuration	Dual	
Quantity	1	
Header System (gallons)	7	
Condenser	Brazen Plate	
Weight (lbs. each)	313	
Water Storage (gal. each)	9.65	
Circuit Configuration	Dual	
Quantity	1	
Header System (gallons)	7	
Refrigerant Type	R410A	
Charge (lbs./circuit)	24	
Number of Circuits	2	
Operating Weight (lbs.)	2,200	
Shipping Weight (lbs.)	1,900	

PLAN VIEW



CUSTOMER: _____

JOB: _____

SALES ORDER NO.: _____

SALES REP: _____

CONTRACTOR: _____

ENGINEER: _____

NOTES: _____

COMPUTER POWER & EXTERNAL I/O CONNECTIONS

1	○	EX1	EXTERNAL INPUTS: (CLOSED TO OPERATE)
2	○	EX2	REQUIRES MANUAL RESET TO RESUME OPERATION
3	○	EX3	AUTO RESET (REMOTE START/STOP)
4	○	EX4	FLOW SWITCH (CONDENSER WATER)
5	○	EX5	FLOW SWITCH (CHILLED WATER)
6	○	EX6	AUX. INTERLOCK (CHILLED WATER PUMP STARTER)
7	○	EX7	AUX. INTERLOCK (CHILLED WATER PUMP STOP)
8	○	EX8	RESET SIGNAL (SOFTWARE SELECTABLE 0-1000C, 4-20mA)
9	○	EX9	RESET SIGNAL (SOFTWARE SELECTABLE 0-1000C, 4-20mA)
10	○	EX10	EXTERNAL OUTPUTS:
11	○	EX11	OUTSIDE AIR RELAY (24VAC, 5VA MAX)
12	○	EX12	FLUE RELAY (24VAC, 5VA MAX)
13	○	EX13	FILTERED WATER PUMP RELAY (24VAC, 5VA MAX)
14	○	EX14	CONDENSER PUMP RELAY (24VAC, 5VA MAX)
15	○	EX15	CHWPR - CHILLED WATER PUMP RELAY (24VAC, 5VA MAX)
16	○	EX16	CHWPR - CHILLED WATER PUMP RELAY (24VAC, 5VA MAX)

NOTE: FOR ADDITIONAL INFORMATION, SEE INSTALLATION MANUAL AND OPERATING INSTRUCTIONS.

