

Project Name:Project

Selection:MHS-SVC75-XN8TL-C

Unit Information

Chiller Model	MHS-SVC75-XN8TL-C	Chiller Series	Aqua thermal Super 60Hz
Net Weight	1245.61 lb	Length	6.56168 ft
Running Weight	1208.13 lb	Width	3.14961 ft
Refrigerant Type	R32	Height	6.16798 ft
Refrigerant Charge	12.5663 12.5663 lb	Sound	69.5 dB(A)
Controller	MicroComputer Controller	Frequency	60 Hz
Voltage	220 V	Operating Range	T3
Capacity Control	Variable Frequency	Starter Type	VFD Starter

***Due to additional options and manufacturing deviation, the weight data and 3D dimension in this report is for reference only, and the actual weight and 3D dimension of the unit is subject to the actual product.**

Barometric Information

Altitude	900 m	Barometric Pressure	91.0 kPa
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Performance Information

Cooling Condition

Ambient Temperature(DB)	95.0 °F	Cooling Capacity	19.88 RT
Leaving Fluid Temperature	44.00 °F	Input Power	23.64 kW
Entering Fluid Temperature	54.00 °F	COP.R	2.957 kW/kW
Fluid Flow Rate	47.77 gpm	IPLV.IP	5.909 kW/kW
Water Pressure Drop	7.75 psi		

Compressor Information

Type	Variable-frequency	Oil Model	FW68HT
Model	Scroll	Oil Charge	1.1 1.1 L
Brand	HITACHI	Number of Compressors	1 1

Water Side Information

Heat Exchanger Type	Plate	Heat Exchanger Code	/
Connection Size	DN50	Connection Type	Threaded
Fluid Type	Fresh Water	Concentration	0 %
Fouling Factor	0.000100 h*ft ² *°F/Btu	Water Volume	0.0059 m ³

Air Side Data

Heat Exchanger Type	Fin-Coil	Air Flow	28670 m ³ /h
Number of Fans	2	FLA of Fan (Each)	3.2 A
Fan Type	BLDC Fan	Power Input of Fan(Each)	0.9200 kW

Electrical Information

Voltage	220 V	Starting Amps	A
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Cooling Full Load Amps ----- 63.6 A Maximum Operating Amps ----- 37.1|35.6 A
Maximum Operating Power --- 13.56|13.56 kW MCA -----0 A
MOP ----- 0 A

Final selection of supply wire gauge and branch circuit protection shall be governed by the equipment' s MCA and MOP ratings in accordance with applicable electrical codes.
When Hydraulic Module Option is selected, the related current and operating power do not include the parameters of water pump of the hydraulic module, please consult the factory for details.

Option Information

Anticorrosive Selection----- Standard Spring Isolator ----- No
Three-phase protector -----No

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591(SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.



Air-cooled Unit Info

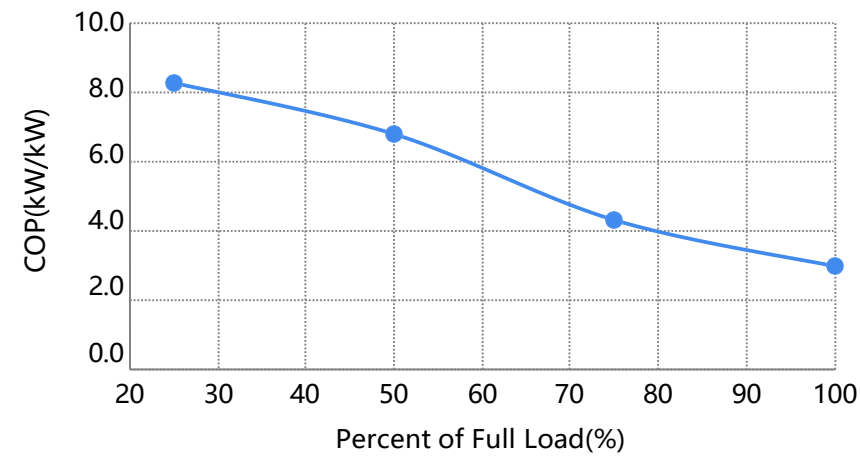


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Calculation:IPLV(IP)

Percentage of full load	Cooling Capacity	Input Power	Power Input per Capacity	COP	Water Side Data				Air Side Data	Weighting Factor	IPLV(IP)	
					EEFT	ELFT	Flow	Water Pressure Drop	CEFT			
					°F	°F	gpm	psi	°F		kW/Ton	kW/kW
100%	20.01	23.45	1.172	3.000	54.00	44.00	47.76	7.75	95.0	0.01	0.5950	5.909
75%	15.00	12.18	0.8119	4.330	51.50	44.00	47.76	7.75	80.0	0.42		
50%	10.00	5.163	0.5161	6.812	49.00	44.00	47.76	7.75	65.0	0.45		
25%	5.002	2.121	0.4240	8.292	46.50	44.00	47.76	7.75	55.0	0.12		





Air-cooled Unit Info

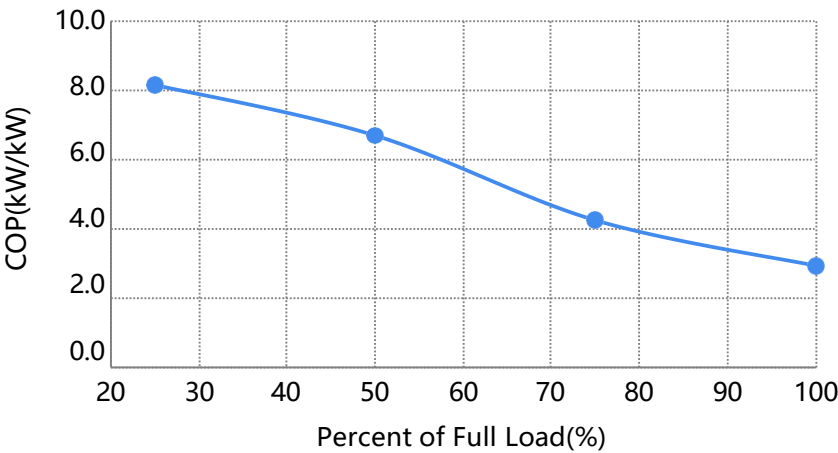


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Calculation:NPLV(IP)

Percentage of full load	Cooling Capacity	Input Power	Power Input per Capacity	COP	Water Side Data				Air Side Data	Weighting Factor	NPLV(IP)	
					EEFT	ELFT	Flow	Water Pressure Drop	CEFT			
					°F	°F	gpm	psi	°F		kW/Ton	kW/kW
100%	19.88	23.64	1.189	2.957	54.00	44.00	47.76	7.75	95.0	0.01	0.6036	5.825
75%	14.91	12.28	0.8237	4.269	51.50	44.00	47.76	7.75	80.0	0.42		
50%	9.940	5.205	0.5236	6.715	49.00	44.00	47.76	7.75	65.0	0.45		
25%	4.970	2.138	0.4302	8.174	46.50	44.00	47.76	7.75	55.0	0.12		

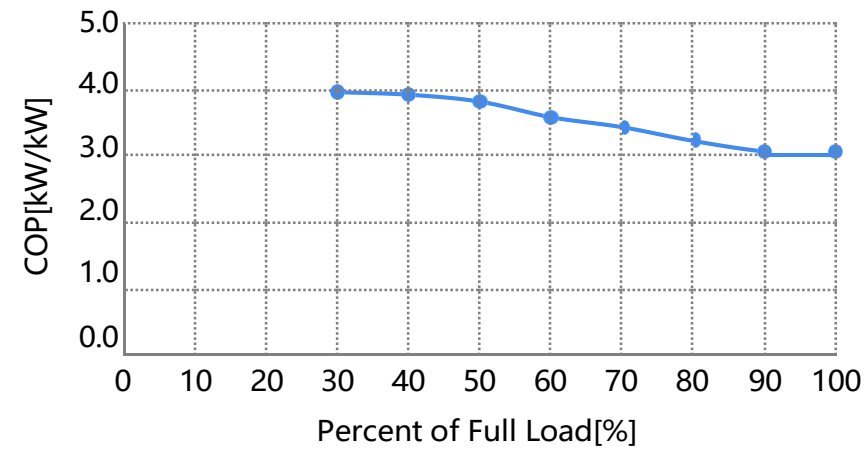


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Calculation:Loadline

Percentage of full load	Cooling Capacity	Input Power	Power Input per Capacity	COP	Water Side Data				Air Side Data	Weighting Factor	PLV/NPLV/CPLV
					EEFT	ELFT	Flow	Water Pressure Drop	CEFT		
	RT	kW	kW/Ton	kW/kW	°F	°F	gpm	psi	°F		kW/kW
100%	19.88	23.64	1.189	2.957	54.00	44.00	47.76	7.75	95.0	0	0.000
90%	17.89	20.87	1.166	3.014	53.00	44.00	47.76	7.75	95.0	0	
80%	15.90	17.62	1.108	3.173	52.00	44.00	47.76	7.75	95.0	0	
70%	13.92	14.48	1.040	3.380	51.00	44.00	47.76	7.75	95.0	0	
60%	11.93	11.88	0.9961	3.530	50.00	44.00	47.76	7.75	95.0	0	
50%	9.940	9.287	0.9343	3.763	49.00	44.00	47.76	7.75	95.0	0	
40%	7.952	7.231	0.9094	3.866	48.00	44.00	47.76	7.75	95.0	0	
30%	5.964	5.369	0.9003	3.905	47.00	44.00	47.76	7.75	95.0	0	
20%	3.976	NaN	NaN	NaN	NaN	44.00	47.76	NaN	95.0	0	
10%	1.988	NaN	NaN	NaN	NaN	44.00	47.76	NaN	95.0	0	

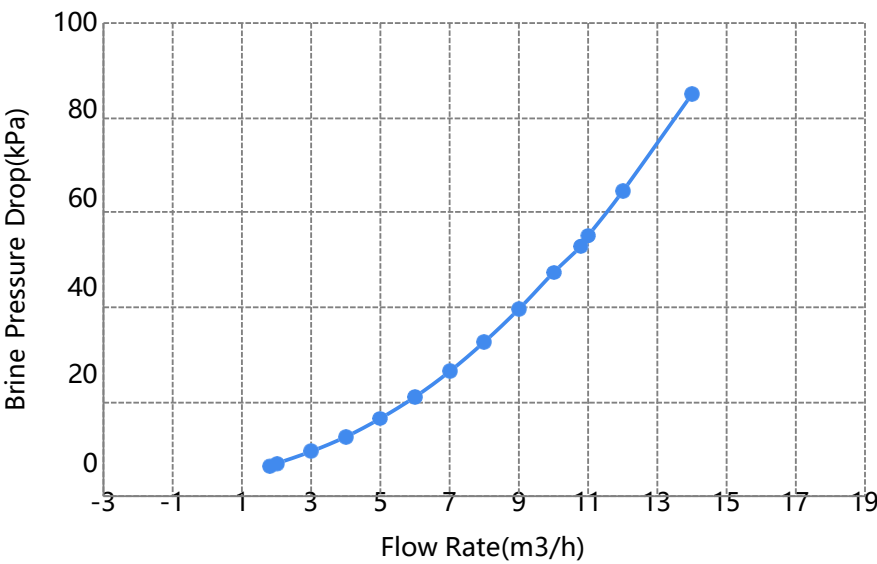


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Fluid Pressure Drop Map

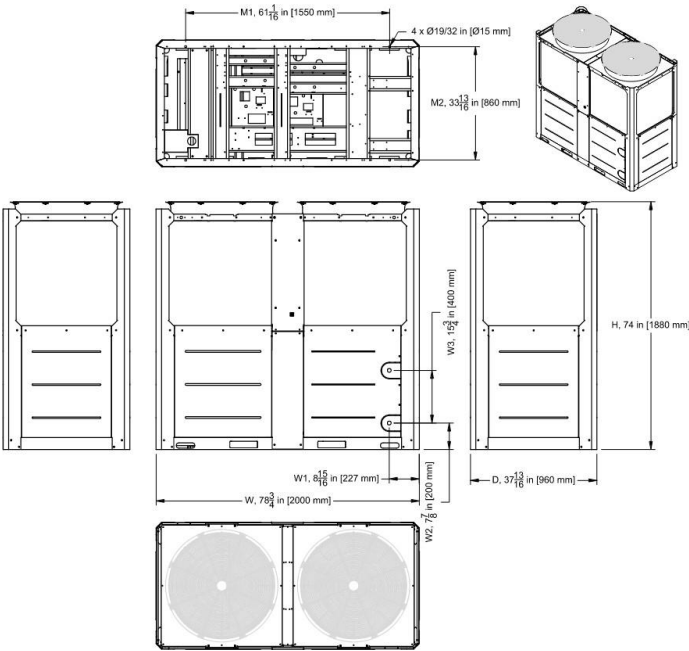
Standard Fluid Pressure Drop Map



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Chiller Outline Drawing



Location points of outline drawing (unit mm)								
Chiller Model	W	D	H	W1	W2	W3	M1	M2
MHS-SVC75-XN8TL-C	2000	960	1880	227	200	400	1550	860



Air-cooled Unit Info

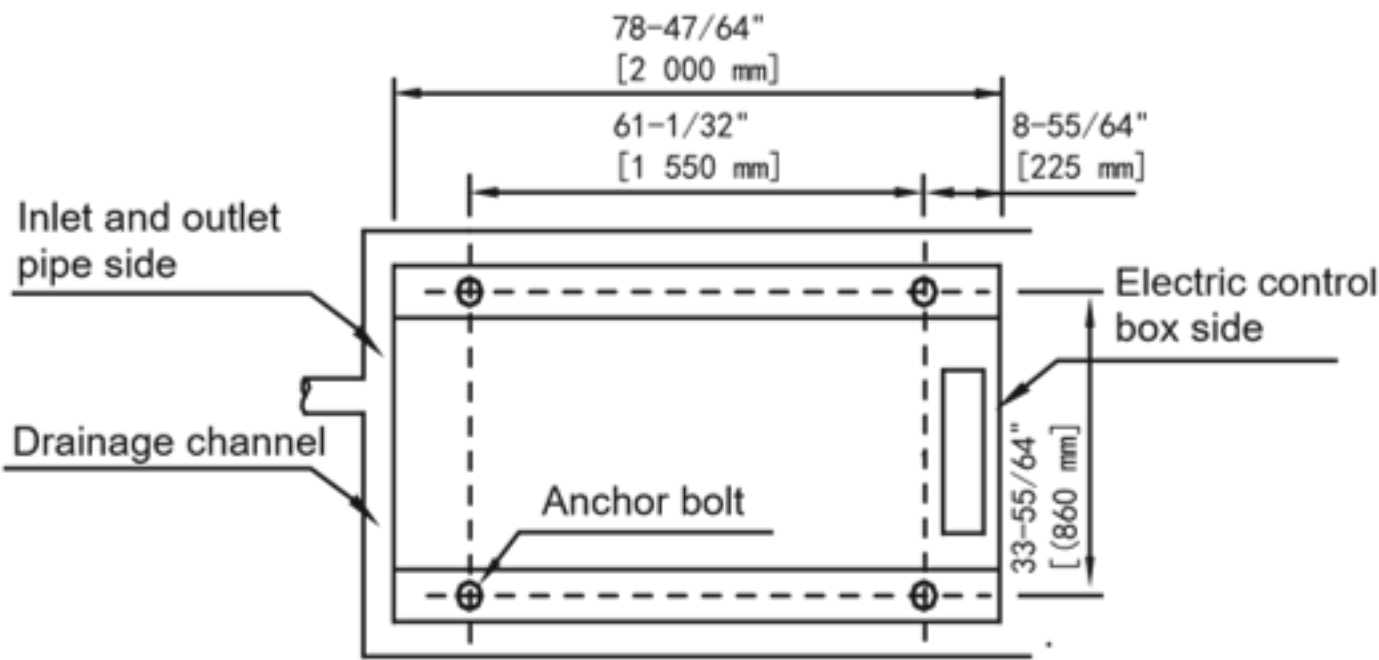


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Explanation	
Chiller Model	1
MHS-SVC75-XN8TL-C	1

Chiller Foundation Drawing



Location point of foundation map (unit mm)		
Chiller Model	A	B
MHS-SVC75-XN8TL-C	1550	860

Load bearing position point of spring isolator				
Chiller Model	R1	R2	R3	R4

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MHS-SVC75-XN8TL-C	MHS-160	MHS-160	MHS-160	MHS-160
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1. Spring isolator is optional. 2. The value in the spring isolator represents the allowable weight, unit kg. 3.If a custom hydraulic module option is selected, a set of spring dampers with the serial number P0 will be added. 4. If A1 is present in the above table, this dimension represents the length of the unit after customizing the hydraulic module. 5. The area within the frame in the drawing shows the unit diagram after customizing the hydraulic module, for reference only.

*In case of any changes to the product or algorithm upgrades resulting from software selection parameter changes, the output parameters of the latest software version shall take precedence. The manufacturer reserves the right to make the final interpretation.