

Project Name:Project

Selection:SCAF385HVD

Unit Information

Chiller Model	SCAF385HVD	Chiller Series	SCAF-HV
Net Weight	10980 kg	Length	11.27 m
Running Weight	11380 kg	Width	2.3 m
Refrigerant Type	R134a	Height	2.46 m
Refrigerant Charge	200 200 kg	Sound	79.32 dB(A)
Controller	MicroComputer Controller	Frequency	60 Hz
Voltage	460 V	Operating Range	T1
Capacity Control	Variable Frequency	Starter Type	VFD Starter
Transport Length	11.37 m	Transport Width	2.3 m
Transport Height	2.46 m	Type Code	2*MV80AH

***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	381.0 RT
Leaving Fluid Temperature	44.00 °F	Input Power	404.3 kW
Entering Fluid Temperature	54.00 °F	COP.R	3.313 kW/kW
Fluid Flow Rate	915.4 gpm	IPLV.IP	4.967 kW/kW
Water Pressure Drop	8.62 psi		

Compressor Information

Type	Variable-frequency	Oil Model	MCO-FH
Model	2*MV80AH	Oil Charge	28 28 L
Brand	Midea	Number of Compressors	1 1

Water Side Information

Heat Exchanger Type	Shell-and-Tube	Heat Exchanger Code	Flooded
Connection Size	DN200	Connection Type	Victaulic
Fluid Type	Fresh Water	Concentration	0 %
Fouling Factor	0.000100 h*ft ² *°F/Btu	Water Volume	0.3 m ³

Air Side Data

Heat Exchanger Type	Fin-Coil	Air Flow	20000 m ³ /h
Number of Fans	20	FLA of Fan (Each)	4.5 A
Fan Type	Fixed-frequency	Power Input of Fan(Each)	2.000 kW



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Electrical Information

Voltage ----- 460 V Starting Amps ----- ≤348.5|≤348.5 A
Cooling Full Load Amps----- 696.9 A Maximum Operating Amps ----- 518.0|428.0 A
Maximum Operating Power --- 296.9|256.9 kW

Please note that the power line of this model is divided into two groups, please pay attention to separate wiring.
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.

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.

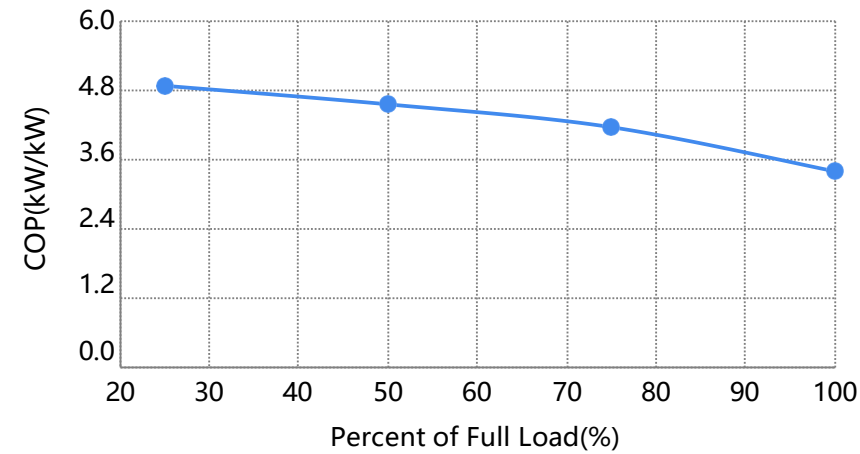


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Calculation:IPLV(GB)

Percentage of full load	Cooling Capacity	Input Power	Power Input per Capacity	COP	Water Side Data				Air Side Data	Weighting Factor	IPLV(GB)	
					EEFT	ELFT	Flow	Water Pressure Drop	CEFT			
					°F	°F	gpm	psi	°F		kW/Ton	kW/kW
100%	389.1	401.2	1.031	3.410	53.57	44.60	1036	10.7	95.0	0.023	0.7974	4.409
75%	291.8	245.9	0.8427	4.172	51.32	44.60	1036	10.7	88.7	0.415		
50%	194.5	149.7	0.7697	4.568	49.08	44.60	1036	10.7	82.4	0.461		
25%	97.27	69.95	0.7191	4.889	46.84	44.60	1036	10.7	76.1	0.101		



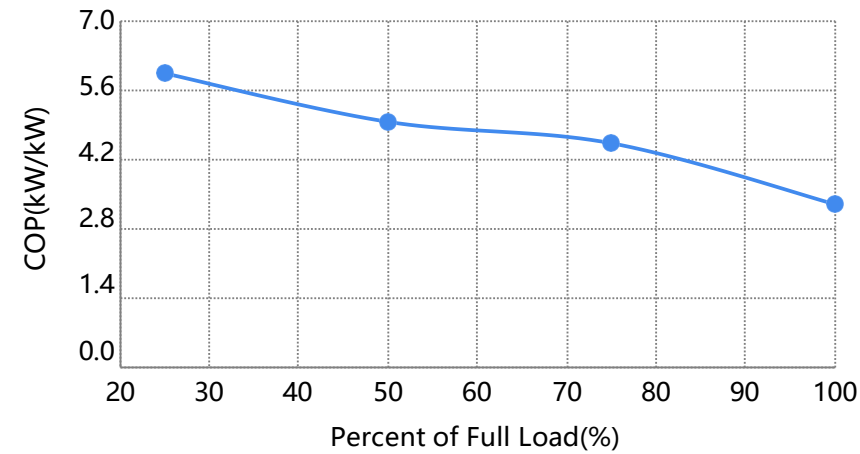


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Calculation:NPLV(IP)

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%	381.0	404.3	1.061	3.313	54.00	44.00	915.2	8.62	95.0	0.01	0.7181	4.896
75%	285.7	221.0	0.7736	4.545	51.50	44.00	915.2	8.62	80.0	0.42		
50%	190.5	134.6	0.7066	4.976	49.00	44.00	915.2	8.62	65.0	0.45		
25%	95.24	56.22	0.5903	5.956	46.50	44.00	915.2	8.62	55.0	0.12		



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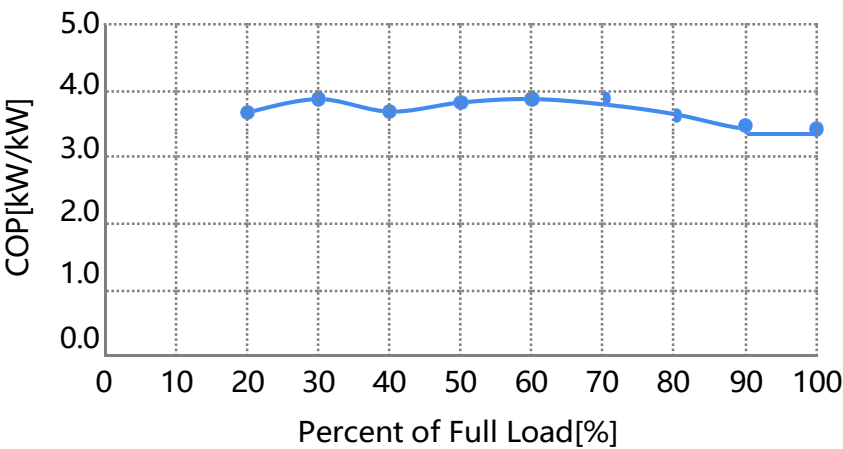
Calculation:Loadline

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%	381.0	404.3	1.061	3.313	54.00	44.00	915.2	8.62	95.0	0	0.000
90%	342.9	358.0	1.044	3.368	53.00	44.00	915.2	8.62	95.0	0	
80%	304.8	298.4	0.9790	3.591	52.00	44.00	915.2	8.62	95.0	0	
70%	266.7	250.8	0.9407	3.738	51.00	44.00	915.2	8.62	95.0	0	
60%	228.6	210.5	0.9208	3.818	50.00	44.00	915.2	8.62	95.0	0	
50%	190.5	177.8	0.9334	3.767	49.00	44.00	915.2	8.62	95.0	0	
40%	152.4	147.7	0.9689	3.629	48.00	44.00	915.2	8.62	95.0	0	
30%	114.3	105.2	0.9209	3.818	47.00	44.00	915.2	8.62	95.0	0	
20%	76.19	74.05	0.9719	3.618	46.00	44.00	915.2	8.62	95.0	0	
10%	38.10	NaN	NaN	NaN	NaN	44.00	915.2	NaN	95.0	0	

Air-cooled Unit Info

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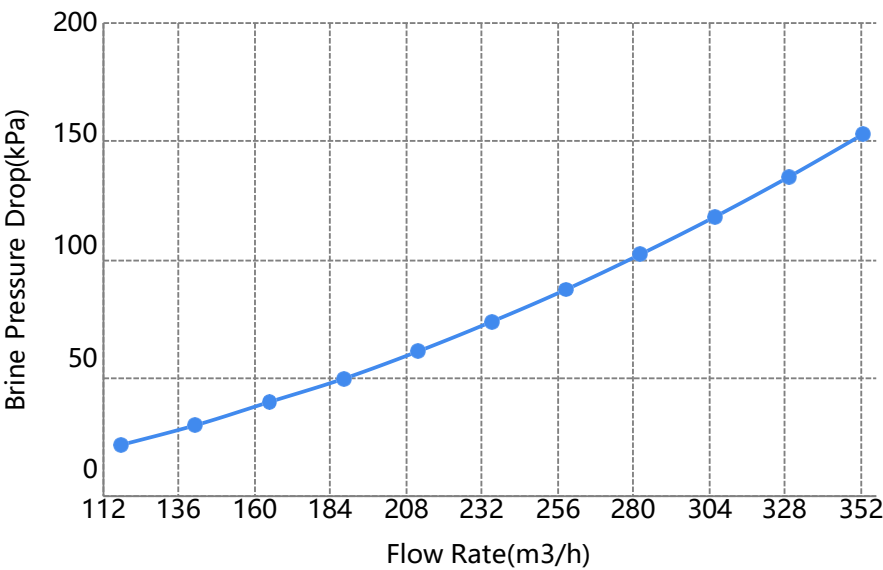


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Fluid Pressure Drop Map

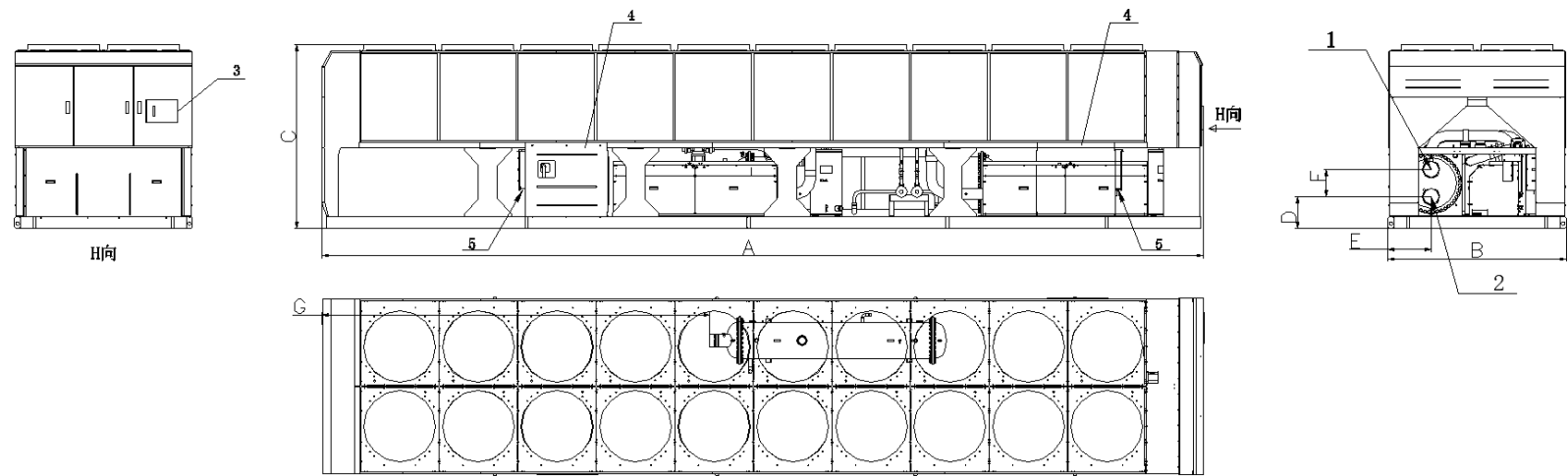
Standard Fluid Pressure Drop Map



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Chiller Outline Drawing



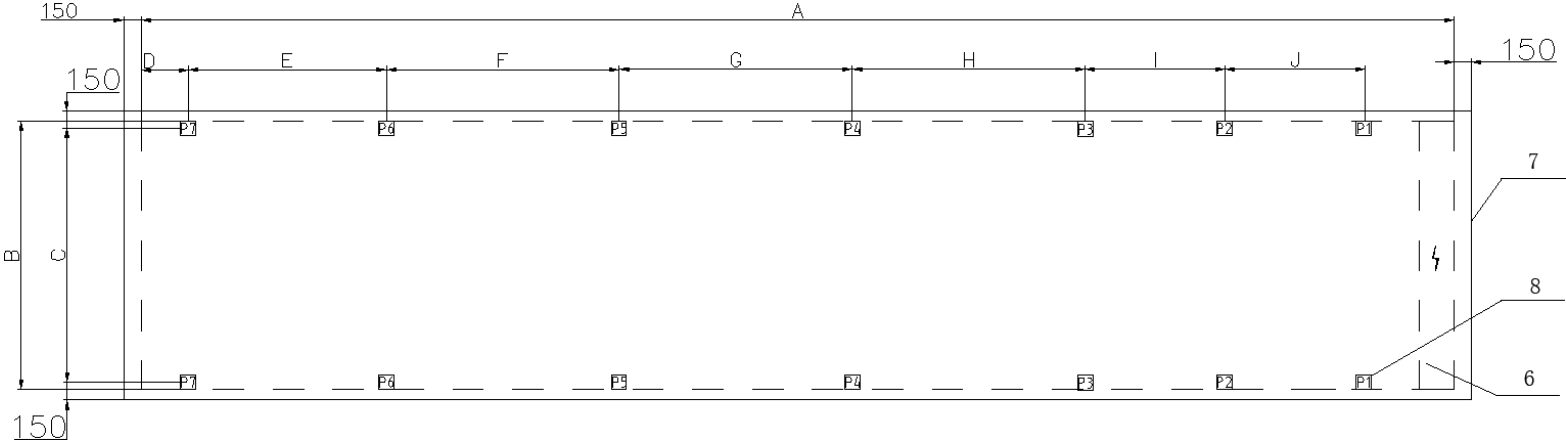
Location points of outline drawing (unit mm)							
Chiller Model	A	B	C	D	E	F	G
SCAF385HVD	11270	2300	2460	410	550	350	4970

Explanation					
Chiller Model	1	2	3	4	5
SCAF385HVD	Chilled water outlet	Chilled water inlet	Control panel	VFD	Power incoming line

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Chiller Foundation Drawing



Location point of foundation map (unit mm)										
Chiller Model	A	B	C	D	E	F	G	H	I	J
SCAF385HVD	11270	2300	2180	405	1700	2000	2000	2000	1200	1200

Load bearing position point of spring isolator							
Chiller Model	P1	P2	P3	P4	P5	P6	P7
SCAF385HVD	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050

Explanation		
Chiller Model	6	7
SCAF385HVD	Electric control box	Installation foundation

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.