

Project Name:Project

Selection:SCAF200HVD

Unit Information	
Chiller Model -----	SCAF200HVD Chiller Series ----- SCAF-HV
Net Weight -----	7170 kg Length ----- 6.245 m
Running Weight -----	7470 kg Width ----- 2.3 m
Refrigerant Type -----	R134a Height ----- 2.46 m
Refrigerant Charge -----	110 110 kg Sound----- 79.73 dB(A)
Controller-----	MicroComputer Controller Frequency ----- 60 Hz
Voltage -----	460 V Operating Range ----- T1
Capacity Control -----	Variable Frequency Starter Type ----- VFD Starter
Transport Length -----	6.345 m Transport Width ----- 2.3 m
Transport Height -----	2.46 m Type Code----- 2*MV50AH
*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

Performance Information	
Cooling Condition	
Ambient Temperature(DB) -----	95.0 °F Cooling Capacity ----- 197.8 RT
Leaving Fluid Temperature -----	44.00 °F Input Power ----- 209.1 kW
Entering Fluid Temperature -----	54.00 °F COP.R ----- 3.326 kW/kW
Fluid Flow Rate -----	475.1 gpm IPLV.IP ----- 5.037 kW/kW
Water Pressure Drop-----	9.63 psi

Compressor Information	
Type -----	Variable-frequency Oil Model ----- MCO-FH
Model -----	2*MV50AH Oil Charge ----- 16 16 L
Brand -----	Midea Number of Compressors ----- 1 1

Water Side Information	
Heat Exchanger Type -----	Shell-and-Tube Heat Exchanger Code ----- Flooded
Connection Size -----	DN150 Connection Type ----- Victaulic
Fluid Type -----	Fresh Water Concentration ----- 0 %
Fouling Factor -----	0.000100 h*ft ² *°F/Btu Water Volume ----- 0.14 m ³

Air Side Data	
Heat Exchanger Type-----	Fin-Coil Air Flow----- 27000 m ³ /h
Number of Fans -----	10 FLA of Fan (Each) ----- 6.3 A
Fan Type-----	Fixed-frequency Power Input of Fan(Each) ----- 2.800 kW



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Electrical Information

Voltage ----- 460 V Starting Amps ----- ≤183.1|≤183.1 A

Cooling Full Load Amps----- 366.2 A Maximum Operating Amps ----- 509.8 A

Maximum Operating Power ----- 294.8 kW

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.

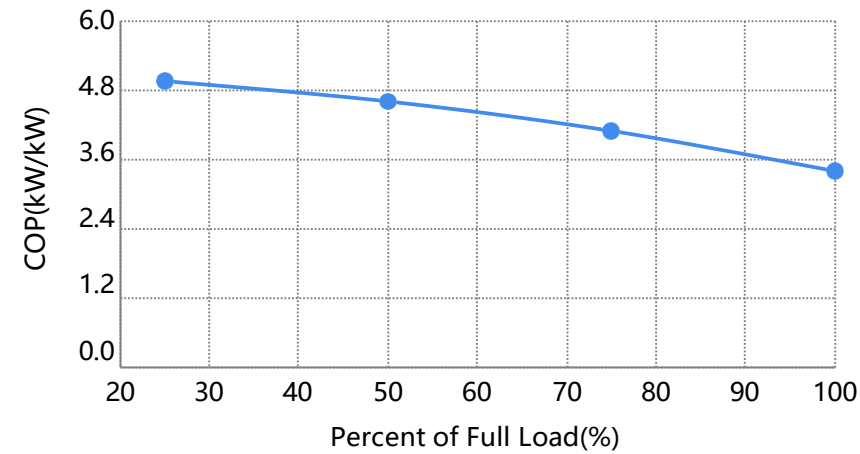
Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591(SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.

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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%	202.2	208.2	1.030	3.415	53.57	44.60	538.5	12.1	95.0	0.023	0.7964	4.415
75%	151.7	129.8	0.8560	4.108	51.32	44.60	538.5	12.1	88.7	0.415		
50%	101.1	76.97	0.7612	4.619	49.08	44.60	538.5	12.1	82.4	0.461		
25%	50.56	35.77	0.7074	4.970	46.84	44.60	538.5	12.1	76.1	0.101		

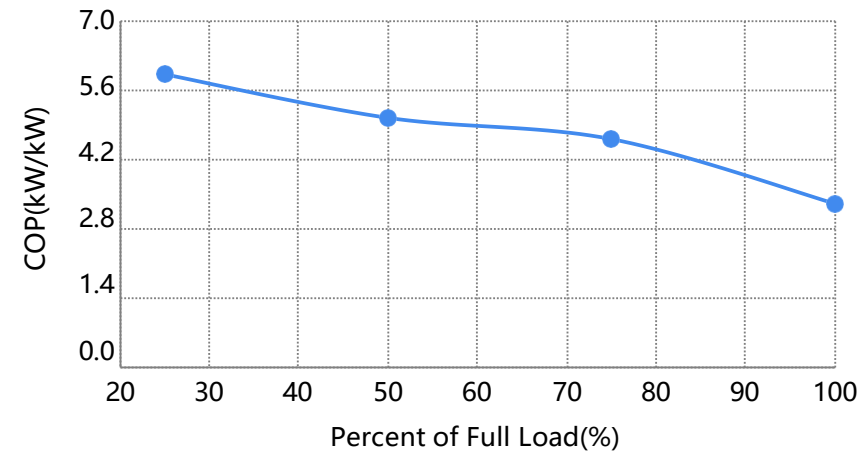


Project Name:Project

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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%	197.8	209.1	1.057	3.326	54.00	44.00	475.1	9.63	95.0	0.01	0.7082	4.965
75%	148.3	112.7	0.7600	4.626	51.50	44.00	475.1	9.63	80.0	0.42		
50%	98.89	68.75	0.6952	5.058	49.00	44.00	475.1	9.63	65.0	0.45		
25%	49.44	29.28	0.5923	5.937	46.50	44.00	475.1	9.63	55.0	0.12		



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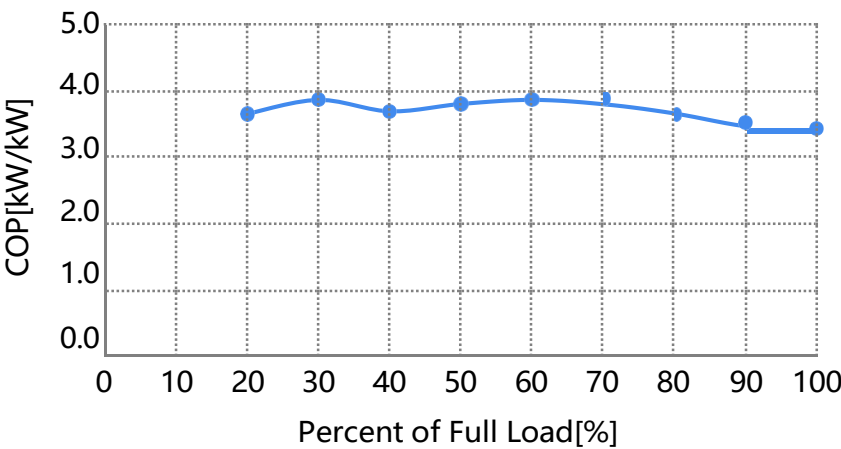
Calculation:Loadline

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%	197.8	209.1	1.057	3.326	54.00	44.00	475.1	9.63	95.0	0	0.000
90%	178.0	183.6	1.032	3.408	53.00	44.00	475.1	9.63	95.0	0	
80%	158.2	154.4	0.9760	3.602	52.00	44.00	475.1	9.63	95.0	0	
70%	138.4	130.1	0.9401	3.740	51.00	44.00	475.1	9.63	95.0	0	
60%	118.7	109.7	0.9242	3.804	50.00	44.00	475.1	9.63	95.0	0	
50%	98.89	92.88	0.9392	3.744	49.00	44.00	475.1	9.63	95.0	0	
40%	79.11	76.57	0.9678	3.633	48.00	44.00	475.1	9.63	95.0	0	
30%	59.33	54.83	0.9242	3.804	47.00	44.00	475.1	9.63	95.0	0	
20%	39.56	38.70	0.9785	3.593	46.00	44.00	475.1	9.63	95.0	0	
10%	19.78	NaN	NaN	NaN	NaN	44.00	475.1	NaN	95.0	0	

Air-cooled Unit Info

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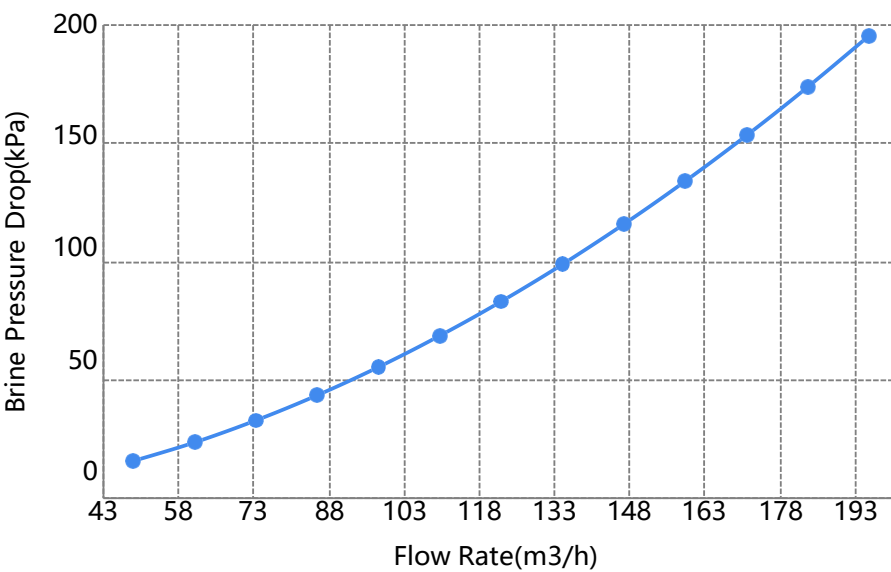


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Fluid Pressure Drop Map

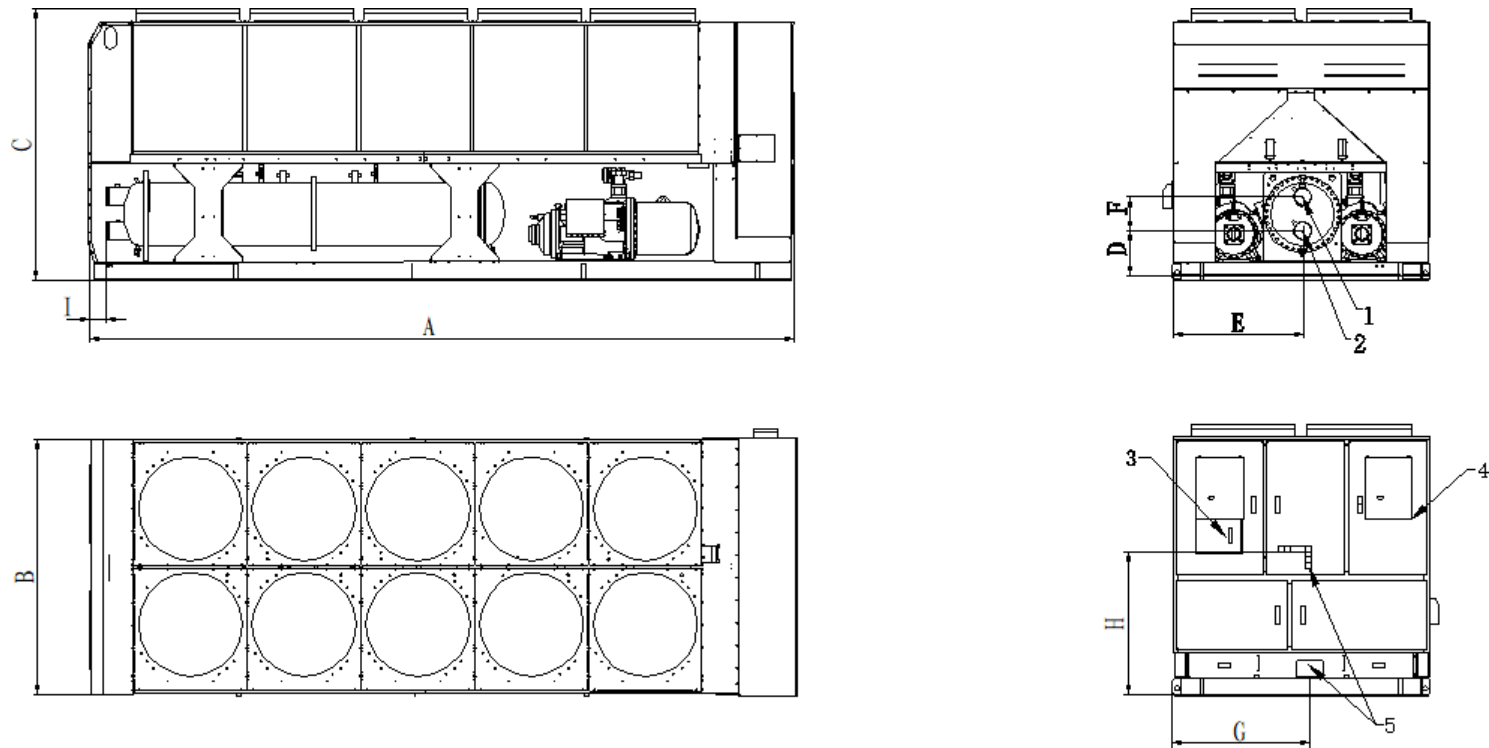
Standard Fluid Pressure Drop Map



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Chiller Outline Drawing



Location points of outline drawing (unit mm)									
Chiller Model	A	B	C	D	E	F	G	H	I
SCAF200HVD	6245	2300	2460	435	1150	300	1195	1400	140

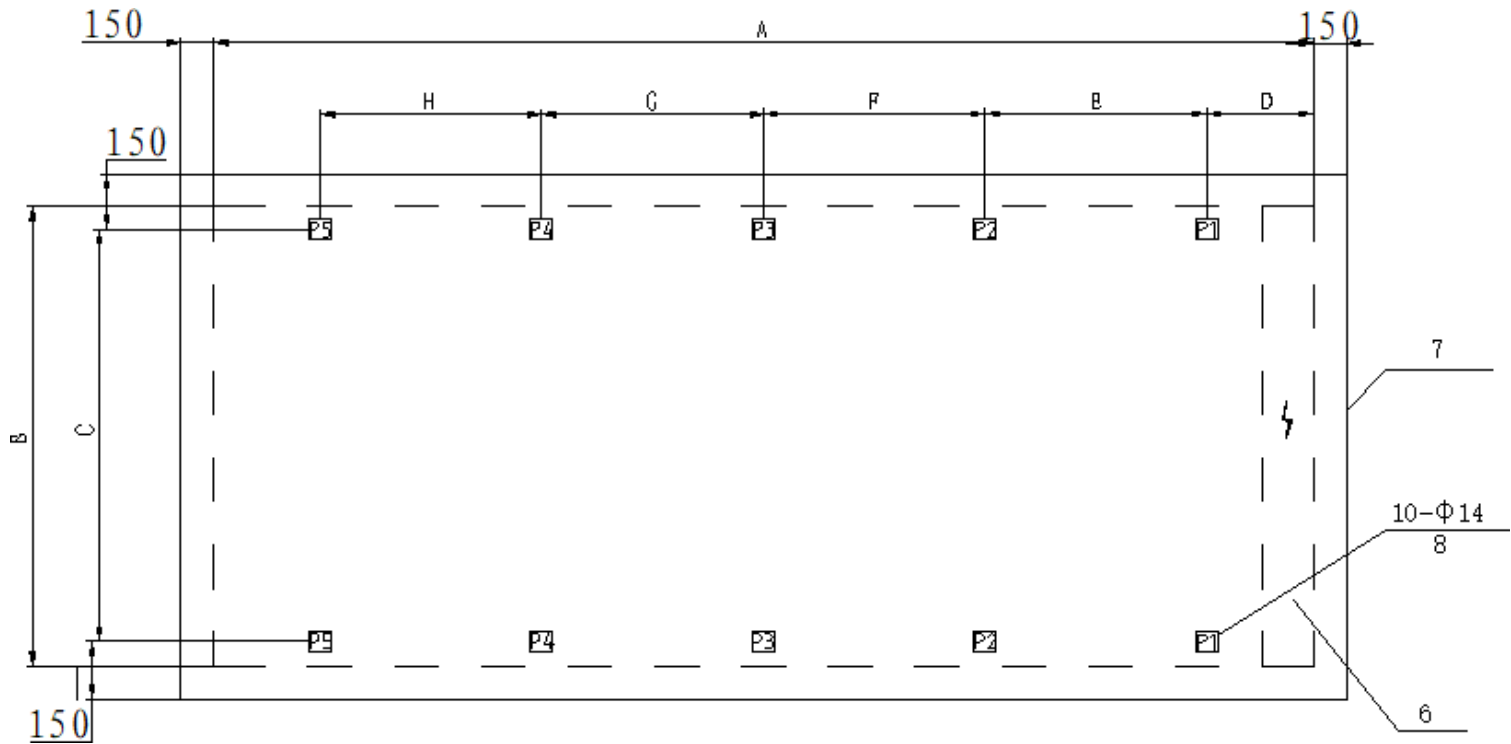


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Explanation					
Chiller Model	1	2	3	4	5
SCAF200HVD	Chilled water outlet	Chilled water inlet	Control panel	VFD	Power incoming line

Chiller Foundation Drawing



Location point of foundation map (unit mm)								
Chiller Model	A	B	C	D	E	F	G	H
SCAF200HVD	6245	2300	2180	420	1180	1200	1200	1650

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Load bearing position point of spring isolator					
Chiller Model	P1	P2	P3	P4	P5
SCAF200HVD	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050

Explanation			
Chiller Model	6	7	8
SCAF200HVD	Electric control box	Installation foundation	Spring isolator installation hole

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.