



Project Name:Project

Selection:SCAF330HVD

Unit Information	
Chiller Model -----	SCAF330HVD Chiller Series ----- SCAF-HV
Net Weight -----	9800 kg Length ----- 10.265 m
Running Weight -----	10160 kg Width ----- 2.3 m
Refrigerant Type -----	R134a Height ----- 2.46 m
Refrigerant Charge -----	168 168 kg Sound----- 78.67 dB(A)
Controller-----	MicroComputer Controller Frequency ----- 60 Hz
Voltage -----	460 V Operating Range ----- T1
Capacity Control -----	Variable Frequency Starter Type ----- VFD Starter
Transport Length -----	10.365 m Transport Width ----- 2.3 m
Transport Height -----	2.46 m Type Code----- 2*MV70AH
*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 ----- 322.9 RT
Leaving Fluid Temperature ----- 44.00 °F Input Power ----- 342.0 kW
Entering Fluid Temperature ----- 54.00 °F COP.R ----- 3.320 kW/kW
Fluid Flow Rate ----- 775.8 gpm IPLV.IP ----- 4.974 kW/kW
Water Pressure Drop----- 8.78 psi

Compressor Information

Type ----- Variable-frequency Oil Model ----- MCO-FH
Model ----- 2*MV70AH Oil Charge ----- 26|26 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*ft²*°F/Btu Water Volume ----- 0.26 m³

Air Side Data

Heat Exchanger Type----- Fin-Coil Air Flow----- 20000 m³/h
Number of Fans ----- 18 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 ----- ≤294.6|≤294.6 A

Cooling Full Load Amps----- 589.2 A Maximum Operating Amps ----- 451.6|370.6 A

Maximum Operating Power --- 259.1|223.1 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.

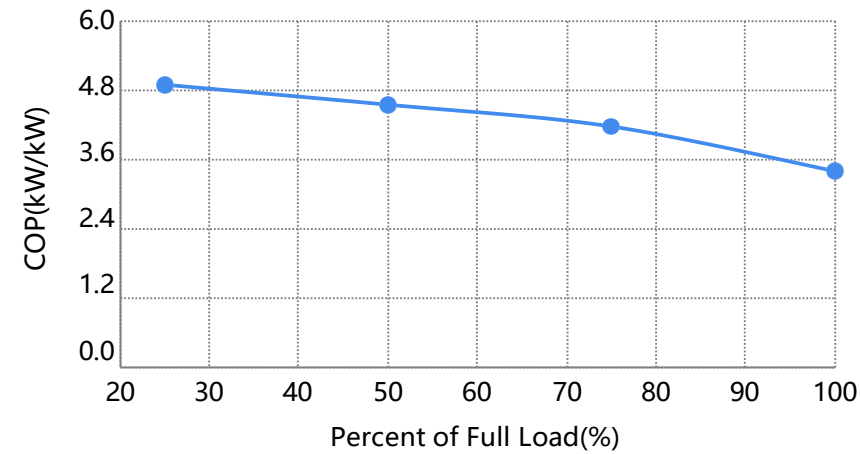
Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591(SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.

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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%	330.4	340.3	1.030	3.413	53.57	44.60	879.6	11.0	95.0	0.023	0.7966	4.414
75%	247.8	208.2	0.8402	4.185	51.32	44.60	879.6	11.0	88.7	0.415		
50%	165.2	127.3	0.7708	4.562	49.08	44.60	879.6	11.0	82.4	0.461		
25%	82.59	59.17	0.7164	4.908	46.84	44.60	879.6	11.0	76.1	0.101		

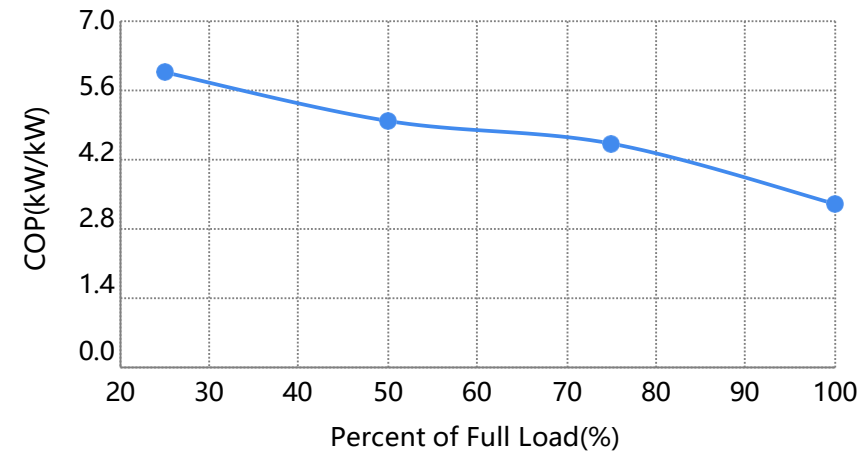


Project Name:Project

Selection:SCAF330HVD

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%	322.9	342.0	1.059	3.320	54.00	44.00	775.7	8.78	95.0	0.01	0.7171	4.903
75%	242.2	187.6	0.7747	4.538	51.50	44.00	775.7	8.78	80.0	0.42		
50%	161.5	113.7	0.7042	4.993	49.00	44.00	775.7	8.78	65.0	0.45		
25%	80.73	47.49	0.5883	5.977	46.50	44.00	775.7	8.78	55.0	0.12		

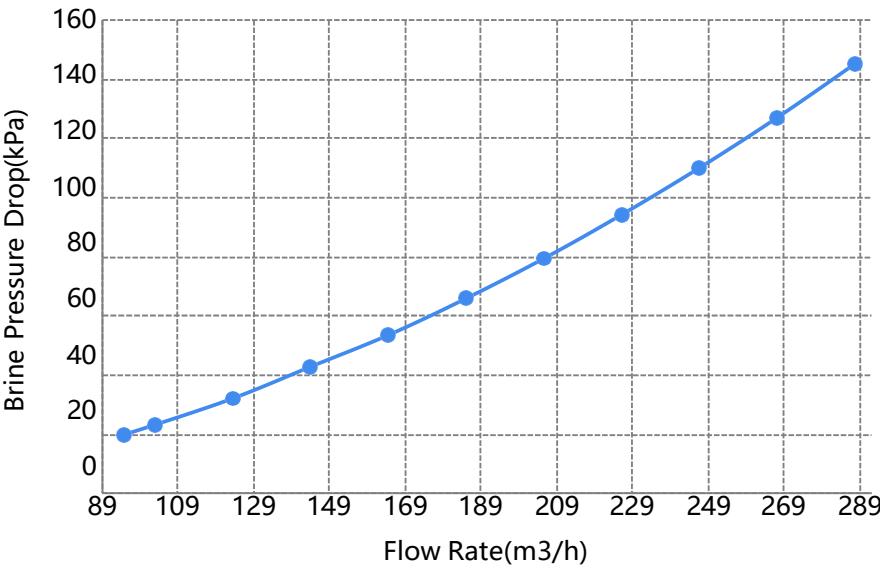


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Fluid Pressure Drop Map

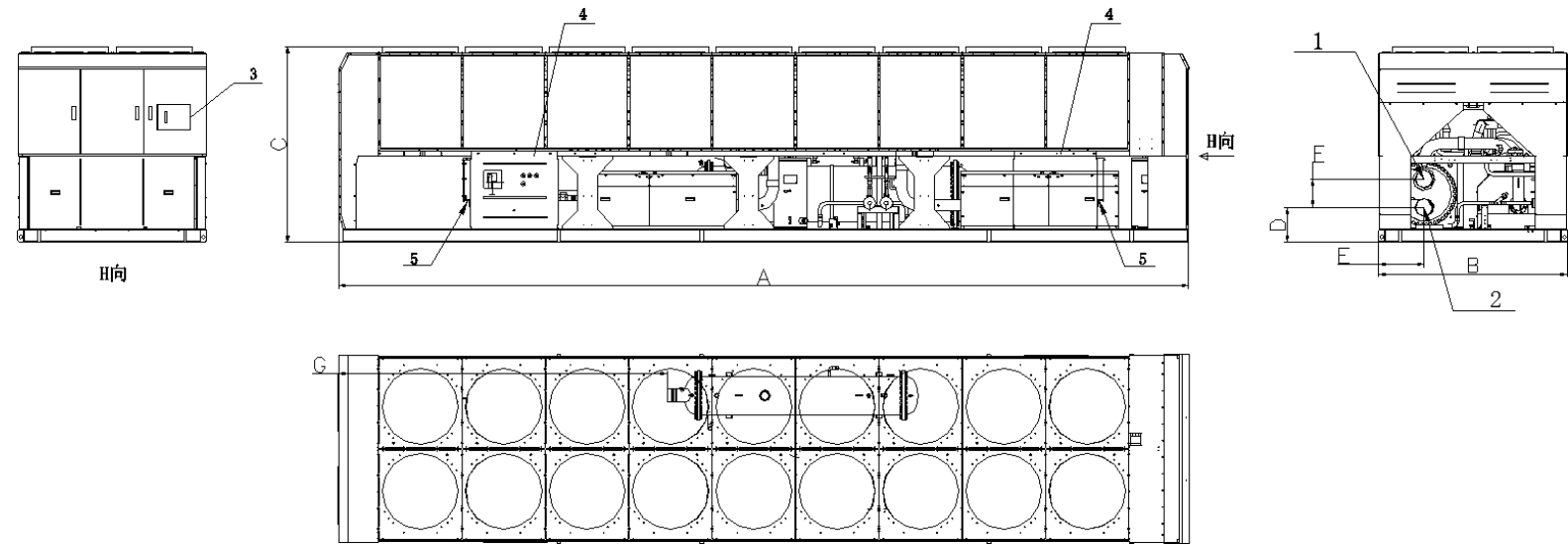
Standard Fluid Pressure Drop Map



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Chiller Outline Drawing



Location points of outline drawing (unit mm)							
Chiller Model	A	B	C	D	E	F	G
SCAF330HVD	10265	2300	2460	410	550	350	3965

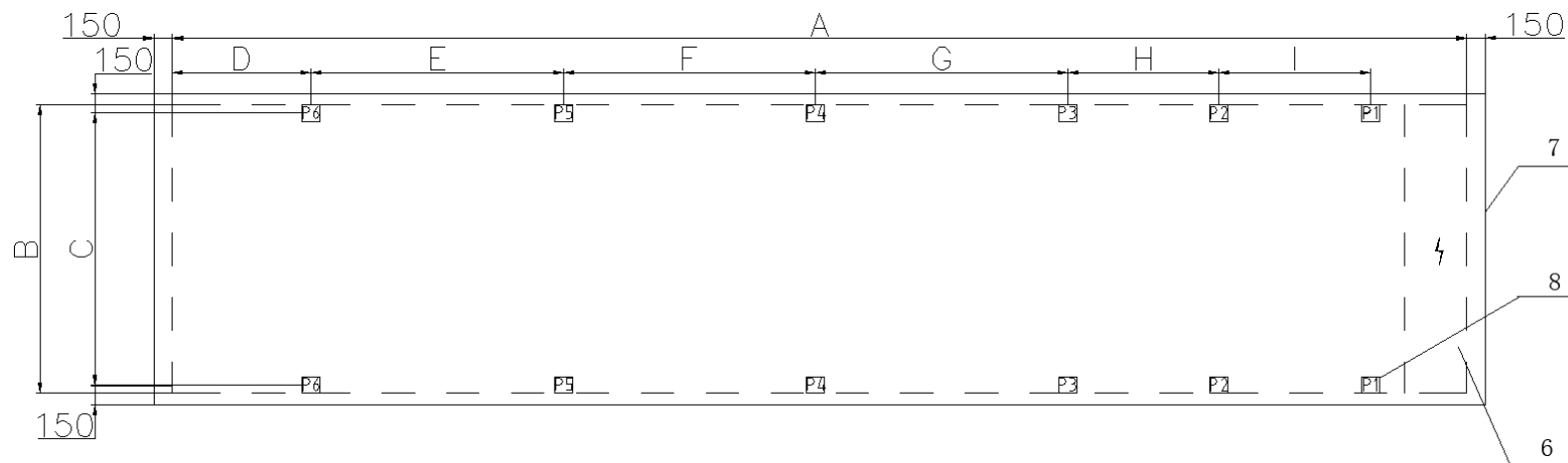
Explanation					
Chiller Model	1	2	3	4	5
SCAF330HVD	Chilled water outlet	Chilled water inlet	Control panel	VFD	Power incoming line

Air-cooled Unit Info

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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
SCAF330HVD	10265	2300	2180	1100	2000	2000	2000	1200	1200

Load bearing position point of spring isolator						
Chiller Model	P1	P2	P3	P4	P5	P6
SCAF330HVD	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050	MHD-B-1050

Explanation			
Chiller Model	6	7	8
SCAF330HVD	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.