



Project Name:Project

Selection:SCAF240HV

Unit Information

Chiller Model	-----SCAF240HV	Chiller Series	-----SCAF-HV
Net Weight	-----15542.6 lb	Length	-----27.0833 ft
Running Weight	-----16159.9 lb	Width	-----7.54593 ft
Refrigerant Type	-----R134a	Height	-----8.07087 ft
Refrigerant Charge	-----496.04 lb	Sound	-----77.95 dB(A)
Controller	-----MicroComputer Controller	Frequency	-----60 Hz
Voltage	-----460 V	Operating Range	-----T1
Capacity Control	-----Variable Frequency	Starter Type	-----VFD Starter
Transport Length	-----27.4114 ft	Transport Width	-----7.54593 ft
Transport Height	-----8.07087 ft	Type Code	-----MV100AH

***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	-----235.2 RT
Leaving Fluid Temperature	-----44.00 °F	Input Power	-----249.3 kW
Entering Fluid Temperature	-----54.00 °F	COP.R	-----3.317 kW/kW
Fluid Flow Rate	-----564.9 gpm	IPLV.IP	-----4.986 kW/kW
Water Pressure Drop	-----9.33 psi		

Compressor Information

Type	-----Variable-frequency	Oil Model	-----MCO-FH
Model	-----MV100AH	Oil Charge	-----40 L
Brand	-----Midea	Number of Compressors	-----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	-----0.17 m ³

Air Side Data

Heat Exchanger Type	-----Fin-Coil	Air Flow	-----20000 m ³ /h
Number of Fans	-----14	FLA of Fan (Each)	-----3.7 A
Fan Type	-----Fixed-frequency	Power Input of Fan(Each)	-----2.000 kW



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Electrical Information

Voltage ----- 460 V Starting Amps ----- ≤358.1 A
Cooling Full Load Amps----- 358.1 A Maximum Operating Amps ----- 480.6 A
Maximum Operating Power ----- 337.8 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.

Option Information

Communication Protocol ----- Modbus Anticorrosive Selection ----- Standard
Flow Switch ----- No Insulation Thickness ----- 20mm
Spring Isolator ----- Yes Screen ----- Yes
Min. Oper. Ambient T. ----- 41.00 °F WaterBox Pressure ----- 1.0MPa
Heat Recovery ----- No Hydraulic Module ----- No

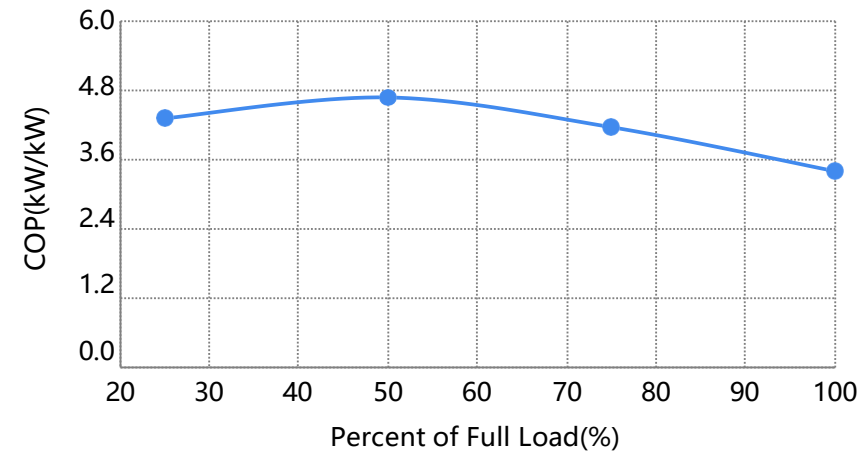
Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591(SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Project Name:Project

Selection:SCAF240HV

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			
	RT	kW	kW/Ton	kW/kW	°F	°F	gpm	psi	°F		kW/Ton	kW/kW
100%	240.2	247.5	1.030	3.412	53.57	44.60	639.5	11.6	95.0	0.023	0.7977	4.407
75%	180.1	151.8	0.8426	4.173	51.32	44.60	639.5	11.6	88.7	0.415		
50%	120.1	90.10	0.7502	4.687	49.08	44.60	639.5	11.6	82.4	0.461		
25%	60.05	48.81	0.8129	4.325	46.84	44.60	639.5	11.6	76.1	0.101		

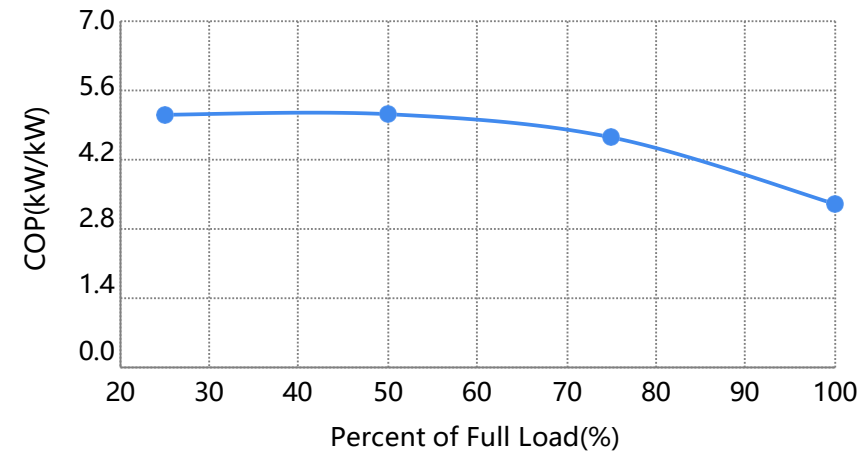


Project Name:Project

Selection:SCAF240HV

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%	235.2	249.3	1.060	3.317	54.00	44.00	564.9	9.33	95.0	0.01	0.7154	4.915
75%	176.4	133.0	0.7540	4.663	51.50	44.00	564.9	9.33	80.0	0.42		
50%	117.6	80.57	0.6852	5.131	49.00	44.00	564.9	9.33	65.0	0.45		
25%	58.79	40.39	0.6870	5.118	46.50	44.00	564.9	9.33	55.0	0.12		

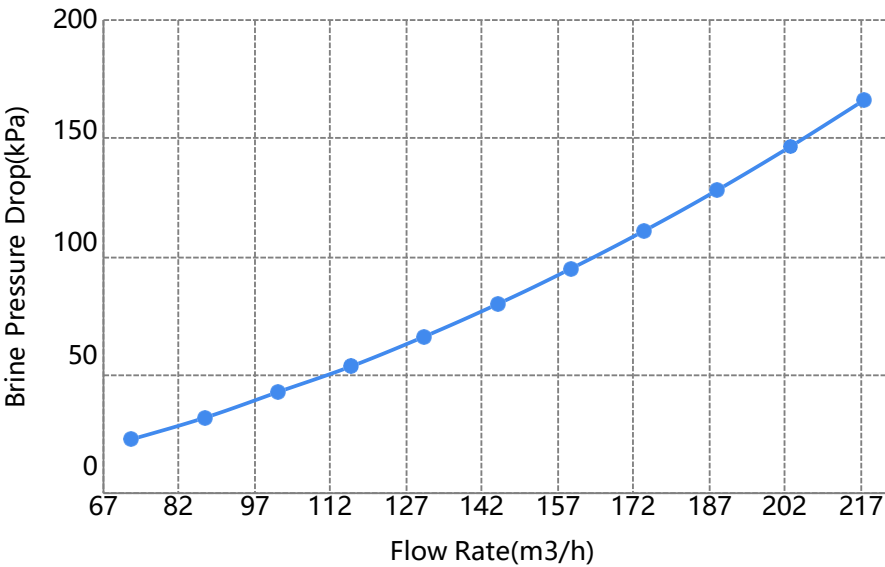


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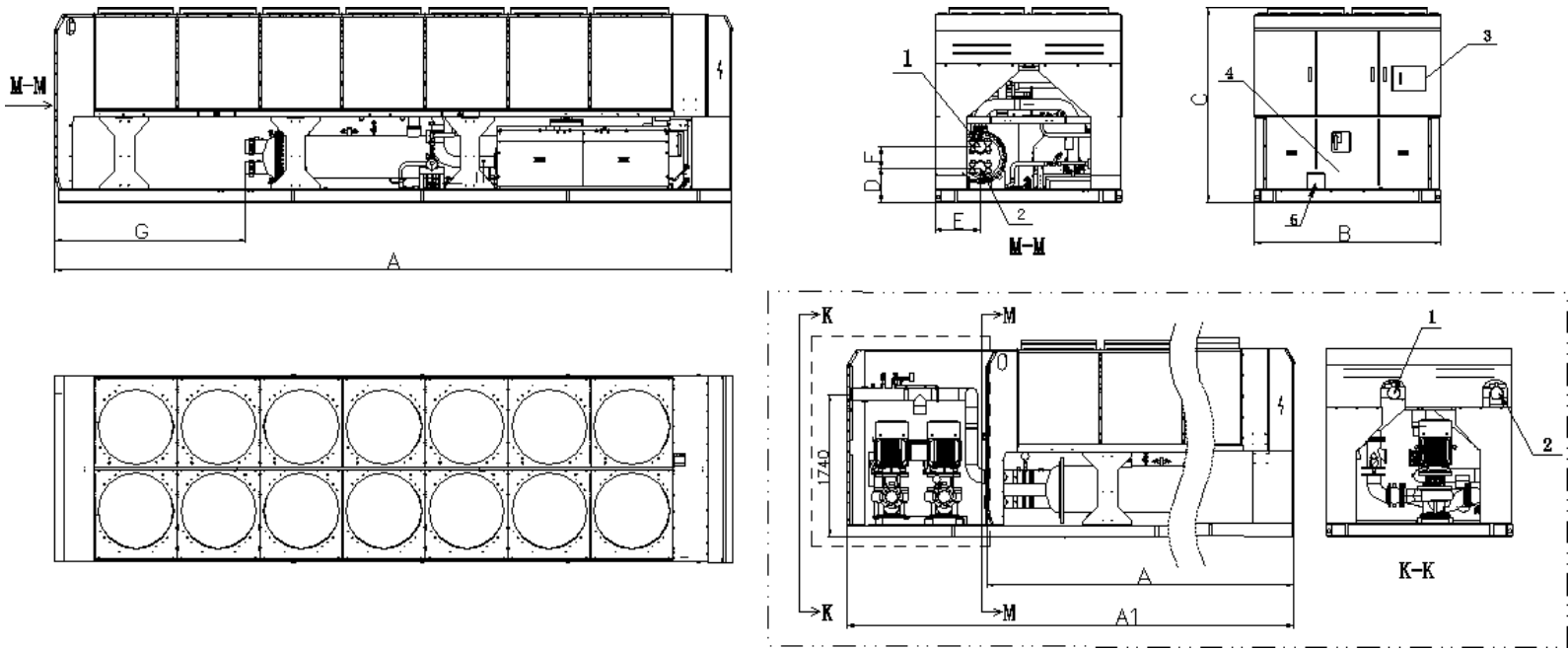
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Fluid Pressure Drop Map

Standard Fluid Pressure Drop Map



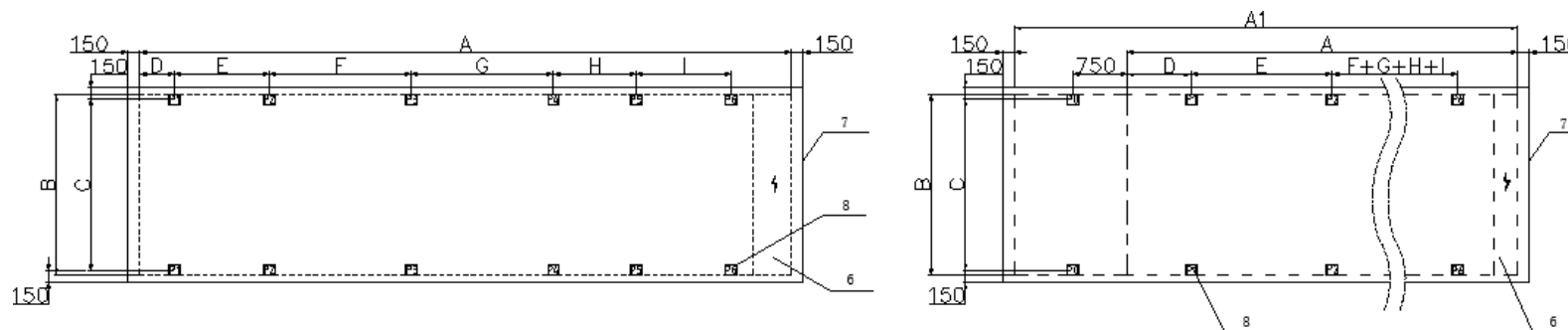
Chiller Outline Drawing



Location points of outline drawing (unit mm)								
Chiller Model	A1	A	B	C	D	E	F	G
SCAF240HV	9755	8255	2300	2460	420	550	260	2305

Explanation					
Chiller Model	1	2	3	4	5
SCAF240HV	Chilled water outlet	Chilled water inlet	Control panel	VFD	Power incoming line

Chiller Foundation Drawing



Location point of foundation map (unit mm)										
Chiller Model	A1	A	B	C	D	E	F	G	H	I
SCAF240HV	9755	8255	2300	2180	440	1200	1800	1800	1050	1200

[illegible]

Explanation			
Chiller Model	6	7	8
SCAF240HV	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.**