



Project Name:Project

Selection:SCAF450HVD

Unit Information

Chiller Model	----- SCAF450HVD	Chiller Series	----- SCAF-HV
Net Weight	----- 12360 kg	Length	----- 11.855 m
Running Weight	----- 12800 kg	Width	----- 2.3 m
Refrigerant Type	----- R134a	Height	----- 2.46 m
Refrigerant Charge	----- 225 225 kg	Sound	----- 80.21 dB(A)
Controller	----- MicroComputer Controller	Frequency	----- 60 Hz
Voltage	----- 460 V	Operating Range	----- T1
Capacity Control	----- Variable Frequency	Starter Type	----- VFD Starter
Transport Length	----- 11.955 m	Transport Width	----- 2.3 m
Transport Height	----- 2.46 m	Type Code	----- 2*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	----- 440.2 RT
Leaving Fluid Temperature	----- 44.00 °F	Input Power	----- 467.3 kW
Entering Fluid Temperature	----- 54.00 °F	COP.R	----- 3.312 kW/kW
Fluid Flow Rate	----- 1058 gpm	IPLV.IP	----- 4.971 kW/kW
Water Pressure Drop	----- 8.98 psi		

Compressor Information

Type	----- Variable-frequency	Oil Model	----- MCO-FH
Model	----- 2*MV100AH	Oil Charge	----- 40 40 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	----- 0.32 m ³

Air Side Data

Heat Exchanger Type	----- Fin-Coil	Air Flow	----- 20000 m ³ /h
Number of Fans	----- 22	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 ----- ≤403.9|≤403.9 A
Cooling Full Load Amps----- 807.8 A Maximum Operating Amps ----- 584.3|485.3 A
Maximum Operating Power --- 333.8|289.8 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.

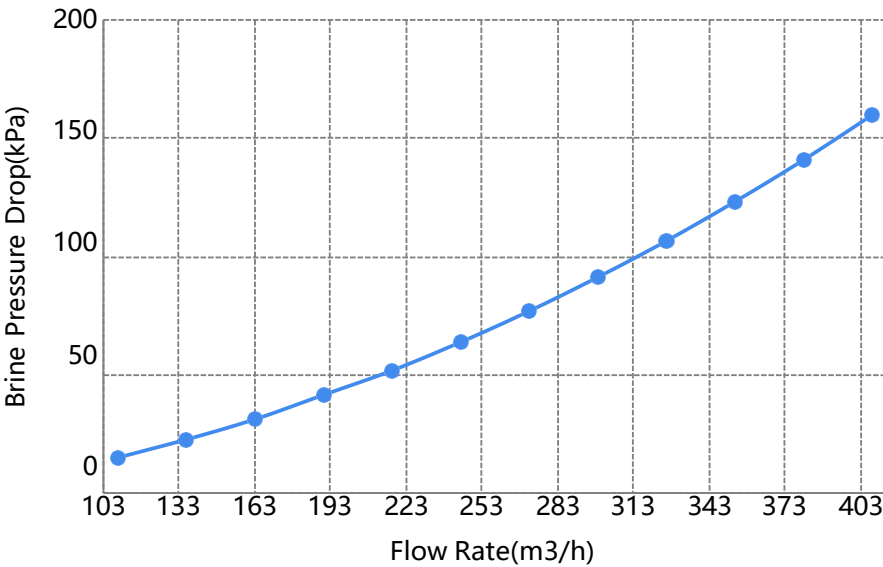
Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591(SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.

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Fluid Pressure Drop Map

Standard Fluid Pressure Drop Map

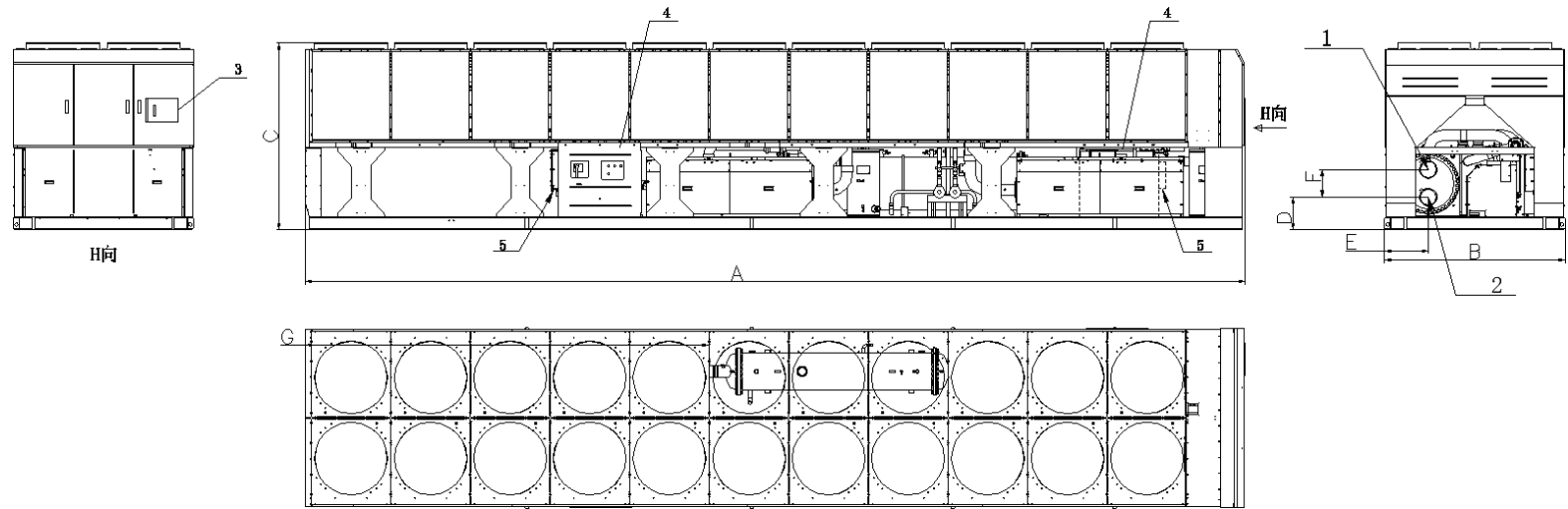


Air-cooled Unit Info

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Chiller Outline Drawing



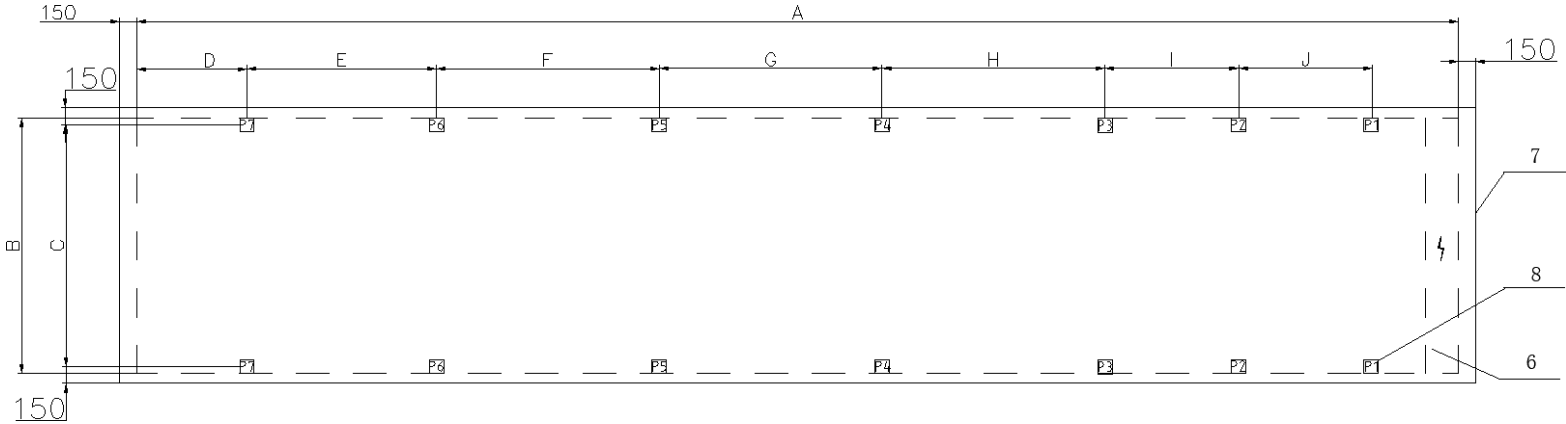
Location points of outline drawing (unit mm)							
Chiller Model	A	B	C	D	E	F	G
SCAF450HVD	11865	2300	2460	410	550	350	5640

Explanation					
Chiller Model	1	2	3	4	5
SCAF450HVD	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
SCAF450HVD	11865	2300	2180	990	1700	2000	2000	2000	1200	1200

Load bearing position point of spring isolator							
Chiller Model	P1	P2	P3	P4	P5	P6	P7
SCAF450HVD	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	8
SCAF450HVD	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.