



Air-Cooled Unit Information

Name: MGBT-F180W/DN1

Unit Information

Chiller Model.....MGBT-F180W/DN1	Chiller Series.....Power(60Hz)
Shipping Weight 1870 kg	Length..... 2,85 m
Running Weight 2000 kg	Width 2 m
Refrigerant Type.....R410A	Height 2,110 m
Refrigerant Charge 42,0 kg	Sound..... 74 dBA
Controller MicroComputer Controller	Frequency 60 Hz
Voltage 220 V	Operating Range..... T3
Capacity Control..... Stage Control	Starter Type Direct OnLine

***Due to additional options and manufacturing deviation, the weight data in this report is for reference only, and the actual weight of the unit is subject to the actual product.**

Sound

Total

74,00

Sound Pressure (dB) measured in accordance with ANSI/AHRI Standard 575-2017(A-weighted)

TOLERANCES: The sound level of identical unit selections can vary due to manufacturing tolerance and test repeatability. Variations of ± 3 dBA on the Acoustic Data is possible. When Ultra Low Noise Option is selected, please consult the factory for specific sound level.

Barometric Information

Altitude..... 900 m	Barometric Pressure 90,97 kPa
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Performance Information

Cooling Condition

Ambient Temperature(DB) 35,0 °C	Leaving Fluid Temperature 7,00 °C
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Entering Fluid Temperature.....	12,00 °C	Fluid Flow Rate.....	135,8 US gpm
Cooling Capacity	50,87 RT	Input Power.....	58,97 kW
COP.R.....	3,033 kW/kW	Water Pressure Drop	119 inH2O
IPLV.IP	4,092 kW/kW		

Compressor Information

Type.....	Fixed-frequency	Model.....	Scroll
Brand.....	Danfoss	Number of Compressors.....	6
Oil Model	POE-160SZ	Oil Charge	18 L

Water Side Information

Heat Exchanger Type	Shell-and-Tube	Heat Exchanger Code.....	DX
Fluid Type	FreshWater	Concentration	0,00%
Fouling Factor	0,018 m2*°C/kW	Connection Type	Flange
Connection Size.....	DN80	Water Volume.....	0,104 m3

Air Side Data

Heat Exchanger Type	Fin-Coil	Air Flow.....	7062,94 cfm
Number of Fans.....	6	Power Input of Fan(Each).....	1,100 kW
FLA of Fan (Each).....	4,0 A		

Electrical Information

Starting Amps	203,0 A	Cooling Full Load Amps	180,5 A
Manual Switching Amps.....	450,0 A	Maximum Operating Amps	270,0 A
Fuse Amps	350,00 A		



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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

Anticorrosive Selection.....	Normal	Spring Isolator	Yes
Three-phase protector.....	No		



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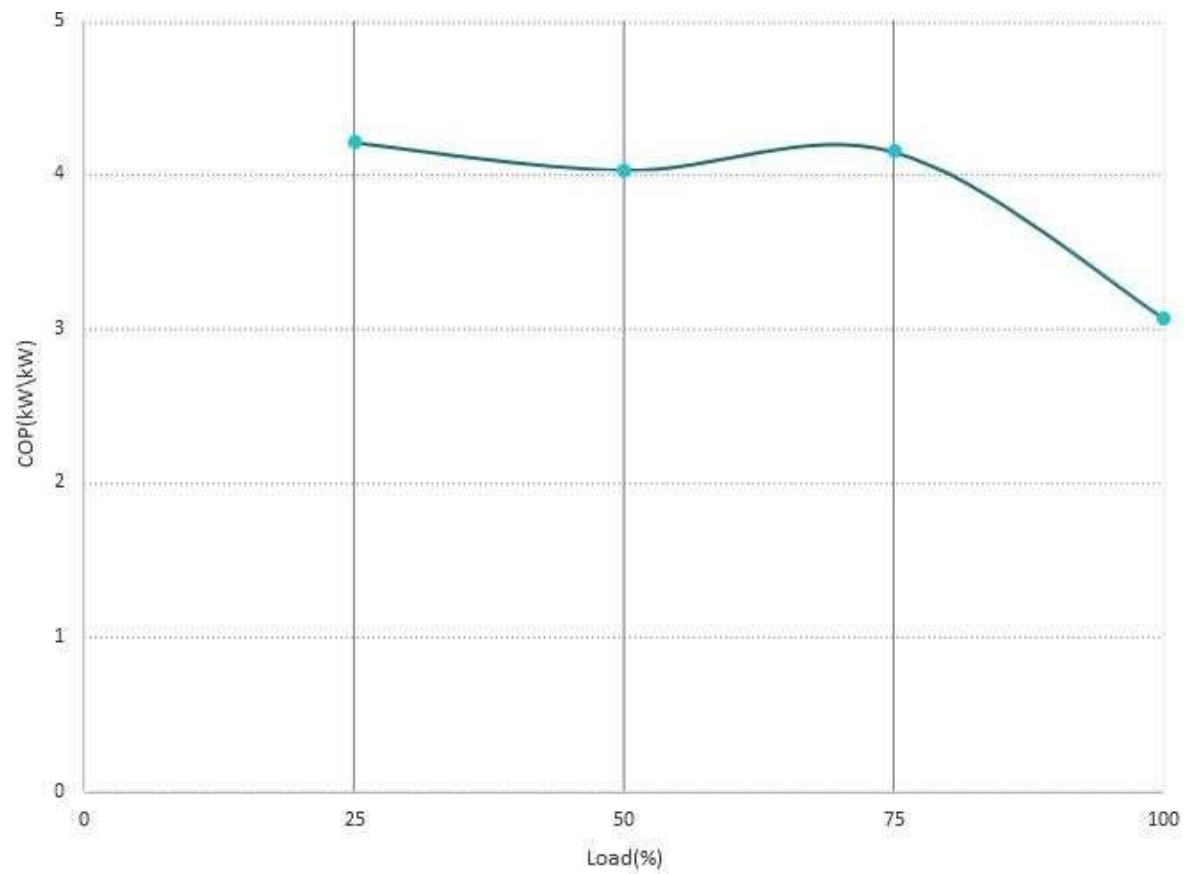
Calculation:IPLV.IP

Percentage of full load		100%	75%	50%	25%
Cooling Capacity	RT	50,66	38,00	25,33	12,67
Power Input	kW	58,11	32,19	22,10	10,58
Power Input per Capacity	kW/Ton	1,146	0,847	0,872	0,835
COP	kW/kW	3,066	4,150	4,030	4,210
Water Side Data					
EEFT	°C	12,22	10,83	9,44	8,06
ELFT	°C	6,67	6,67	6,67	6,67
Flow	US gpm	120,9	120,9	120,9	120,9
Air Side Data					
CEFT	°C	35,0	26,6	18,3	12,7
Weighting Factor		0,01	0,42	0,45	0,12
IPLV.IP	kW/Ton	0,85916 kW/Ton			
	kW/kW	4,092 kW/kW			



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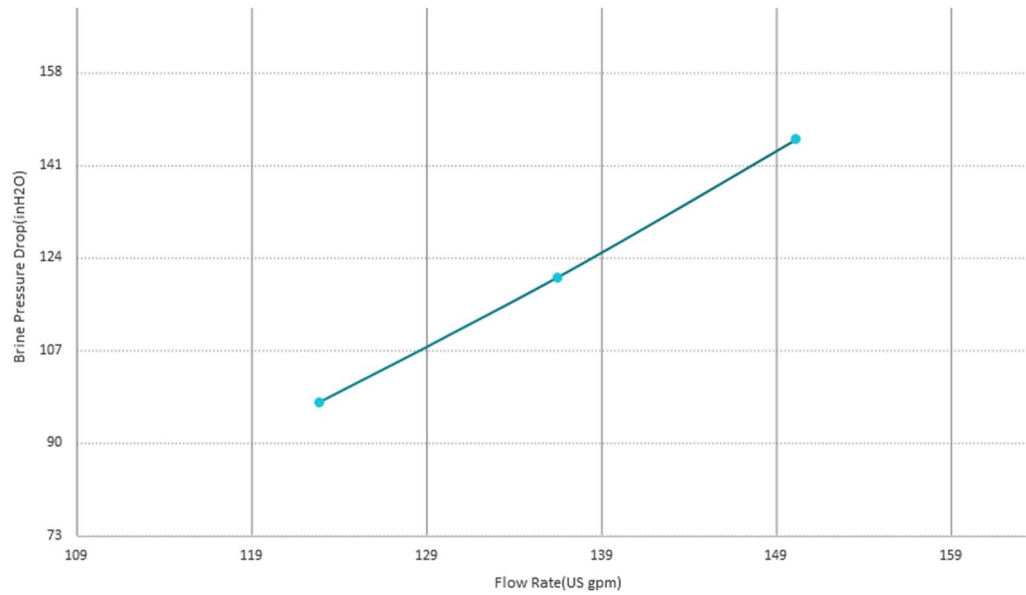


Air-Cooled Unit Information

Project Name: New Project

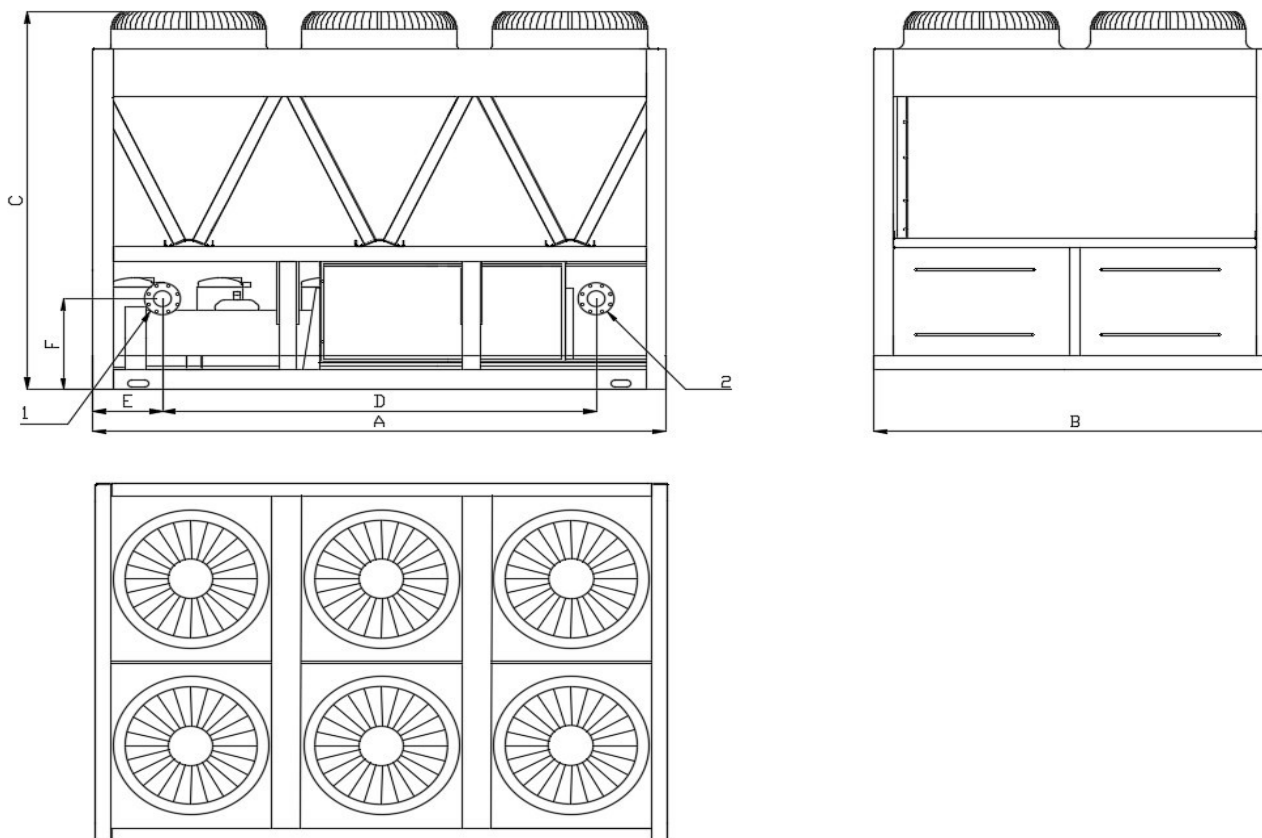
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Fluid Pressure Drop Map



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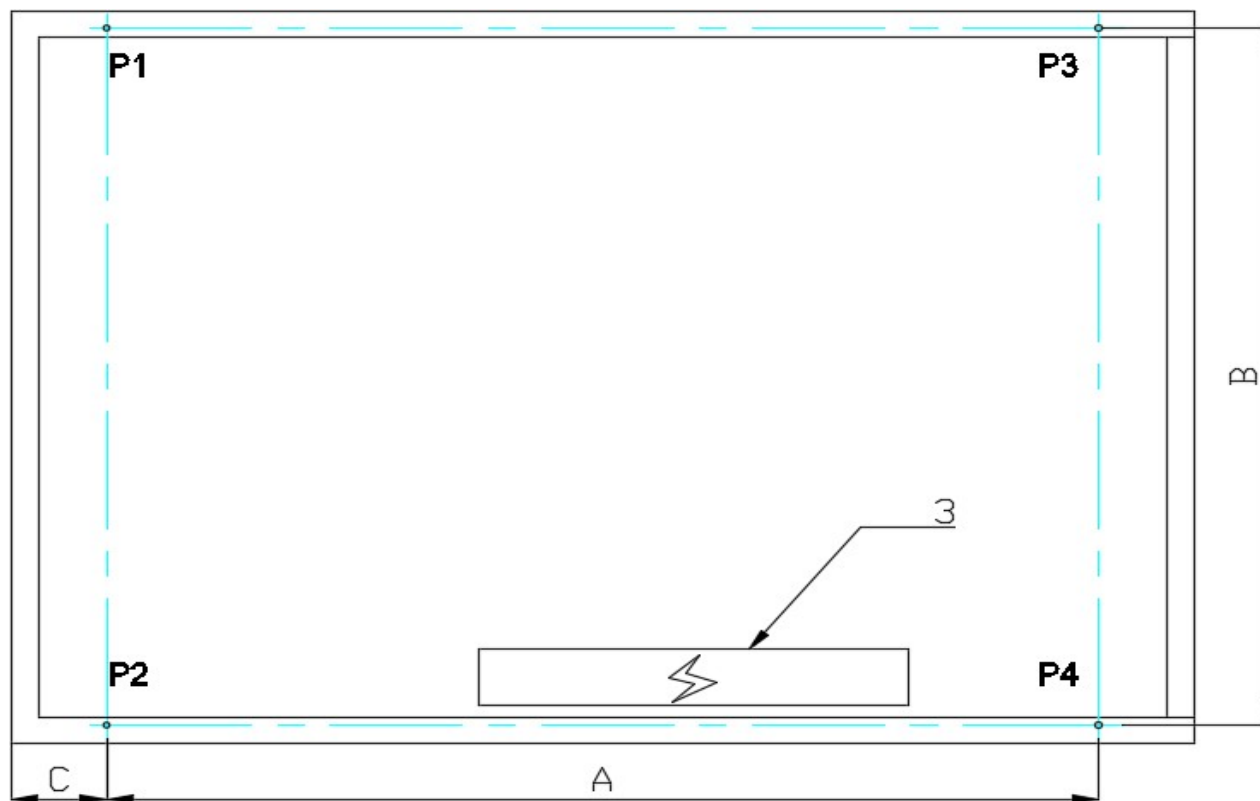
Location points of outline drawing (unit: mm)

A	B	C	D	E	F
2850	2000	2110	2388	1888	2156



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Location point of foundation map (unit: mm)			
A	B	C	D
2388	1888	2388	230



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Load bearing position point of spring isolator			
P1	P2	P3	P4
MHD-550	MHD-450	MHD-550	MHD-450

Explanation	
1	2
Water inlet	Water outlet

Explanation
3
Electric control box