EDITION 1.0
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Revere CO2
Air and Water Source Heat Pump
CHP 120-160AWW

Flowenergy
WATER & HEATING PLANT SOLUTIONS

Revere CO2 Air and Water Source Heat Pump

CHP 120-160AWW

Industrial and commercial dual hot water and chilled water supply

This Air and Water Source CO2 Heat Pump automatically changes operating mode and satisfies increasing market demand for clever renewable energy systems.

Efficient use of renewable energy

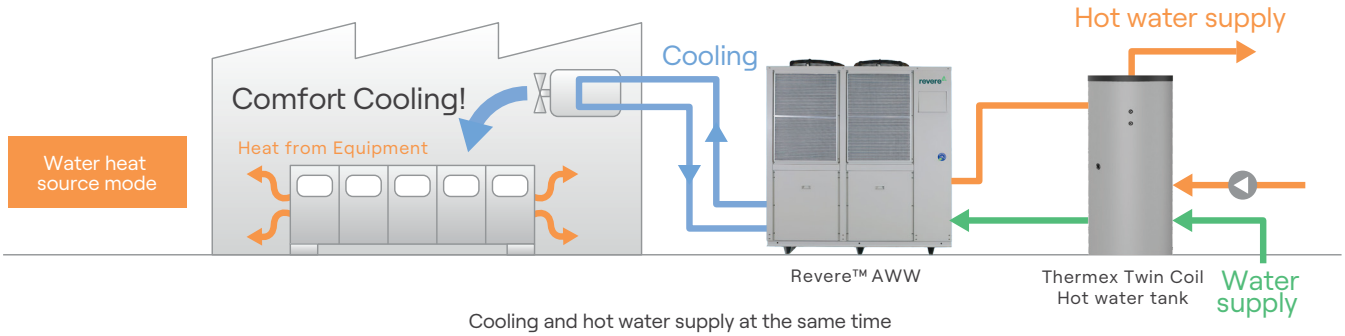
Dual mode Revere™ AWW can provide both chilled water and hot water.

1. Chilled water is generated using the water source when process cooling or cooling is required.
2. When cooling water is not required, Revere™ AWW generates hot water using the air as its heat source.
3. If ground bore water is used as a heat source, Revere™ AWW can operate using the air source in summer and water source in winter.

Easy system design

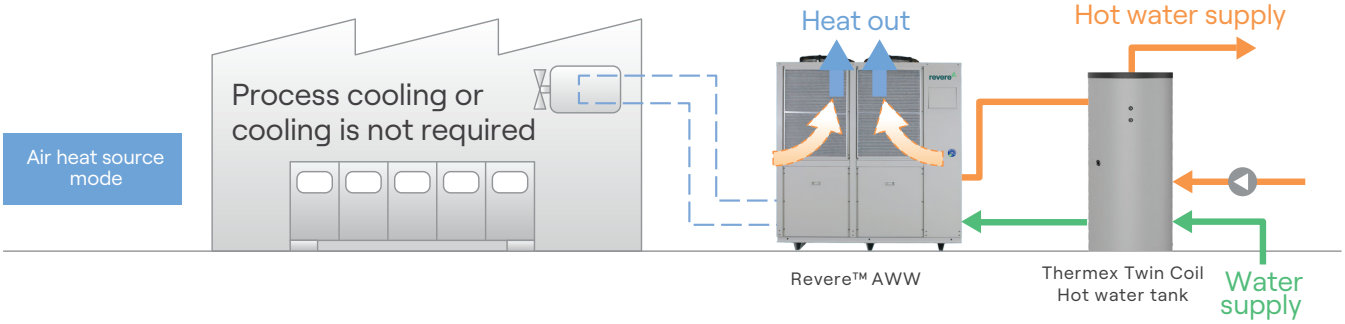
Revere™ AWW system design is simple and easy.

Summer / Day Time (when process cooling or cooling is required)



Cooling and hot water supply at the same time

Winter / Night Time (when process cooling or cooling is not required)



The system can generate hot water by using air as heat source when there is no cooling load

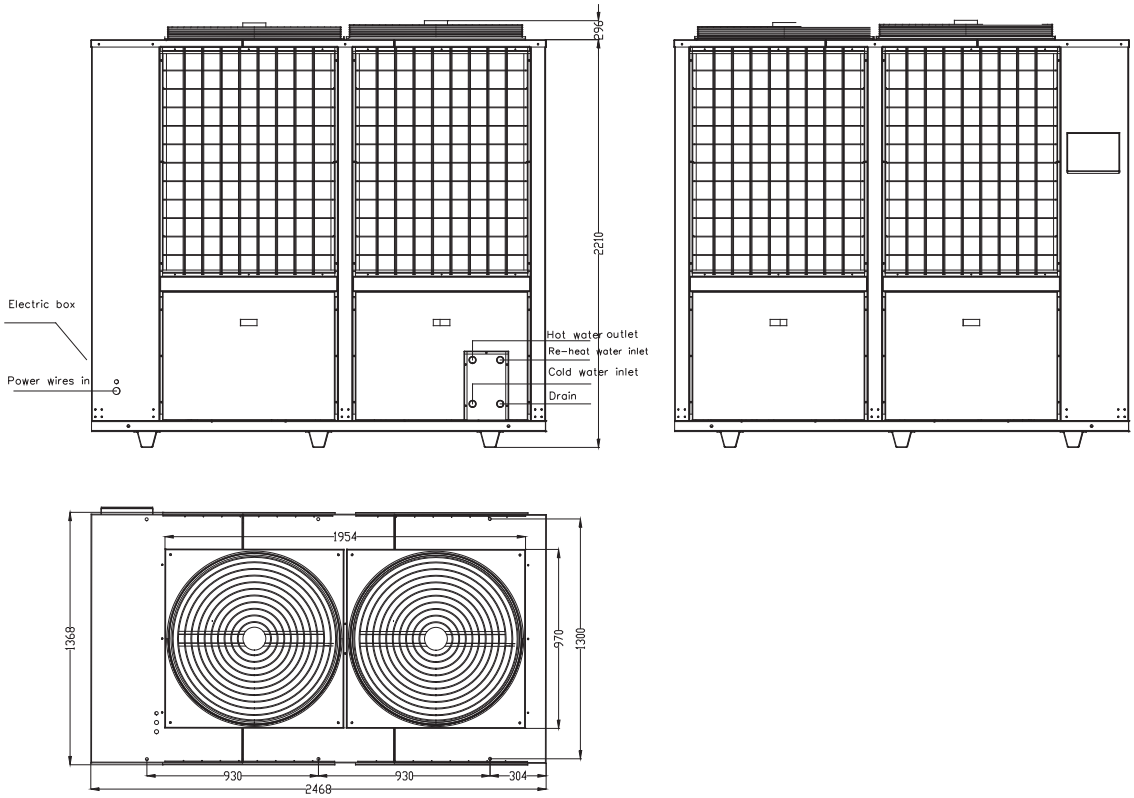
Specifications

Model			CHP125AWW	CHP160AWW
Heating Condition[1]	Heating Capacity	kW	120	166
	Hot water capacity	L/H	2292	3171
	Heating power input	kW	26.6	36.1
	COP	W/W	4.5	4.6
Heating Condition[2]	Heating Capacity	kW	95	153
	Hot water capacity	L/H	1602	2579
	Heating power input	kW	24.3	37.3
	COP	W/W	3.9	4.1
Heating Condition[3]	Heating Capacity	kW	78	112
	Hot water capacity	L/H	1315	1888
	Heating power input	kW	26	35
	COP	W/W	3	3.2
Cooling Condition[4]	Heating Capacity	kW	77	100
	Heating power input	kW	24	32.2
	COP	W/W	3.2	3.1
	Water flow	m3/h	13	17
Power supply		V/Ph/Hz	380/3/50	
Heating type			Direct	
Inlet water temperature		°C	5~50	
Output water temperature		°C	45~90	
Work ambient temperature		°C	-25~43	
Compressor		Type	DORIN OR BITZER	
Circulation water pump		kw	0.55	0.75
Defrosting type			Bypass	
Water connection pipe size (Hot water)		mm	DN25	
Water connection pipe size (Cold water)		mm	DN40	DN50
Water side heat exchanger		Type	Plate type SUS316	
Air side heat exchanger		Type	High efficiency copper tube (Interior Screw) nested in aluminium fin	
Refrigerant		Type	R744	
Controller		Brand	CAREL (Italy)	
Dimensions	Length	mm	2470	3855
	Width	mm	1340	1123
	Height	mm	2505	2108
Unit noise level		dB(A)	65	70
Net weight		kg	1350	2200

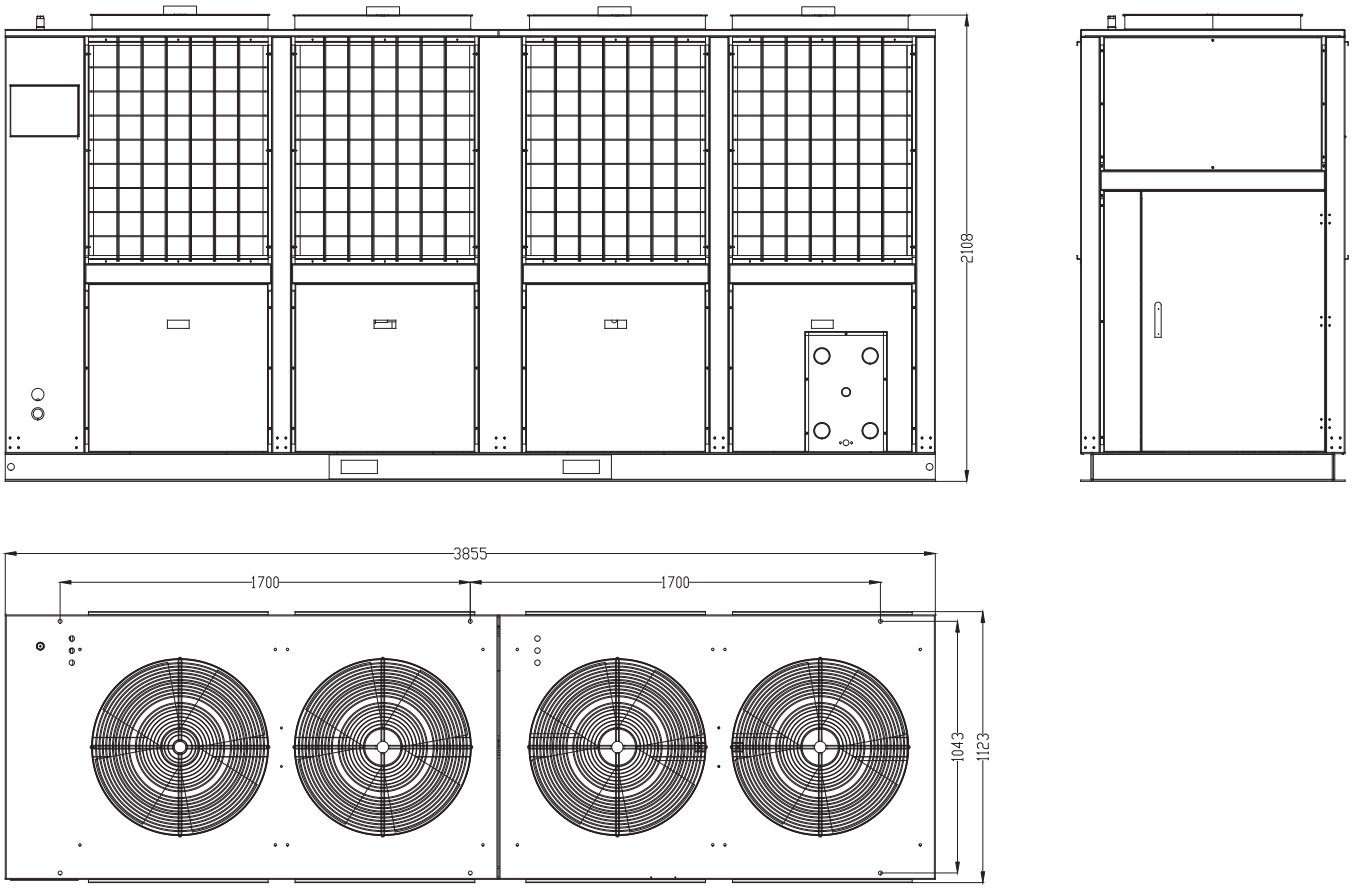
[1]Ambient temperature 20°C/15°C,Water temperature: inlet 15°C,outlet 60°C
[2]Ambient temperature 7°C/6°C,Water temperature: inlet 9°C,outlet 60°C
[3]Ambient temperature -7°C/-8°C,Water temperature: inlet 9°C,outlet 60°C
[4]Water cooled side inlet 30°C,outlet 32°C,cooling side inlet water temperature 12°C,outlet 7°C

Dimensional Data

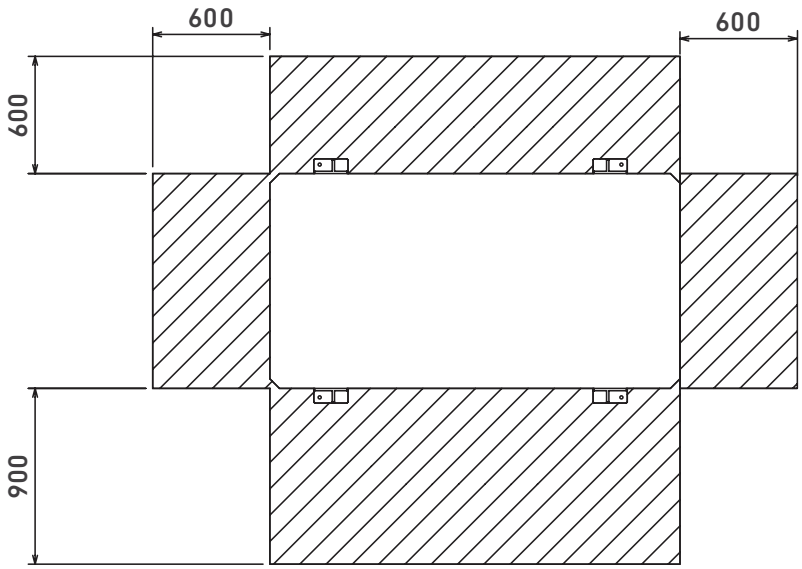
CHP125AWW



CHP160AWW



Maintenance Space



Case Studies

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