

SOLLIS

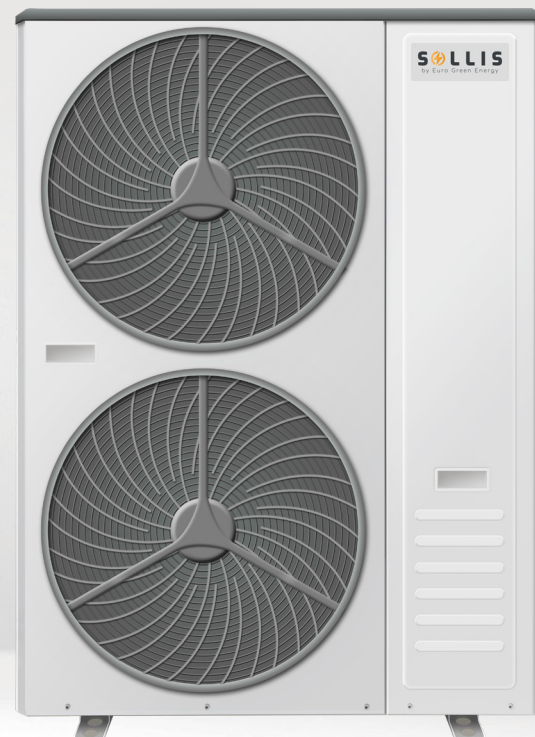
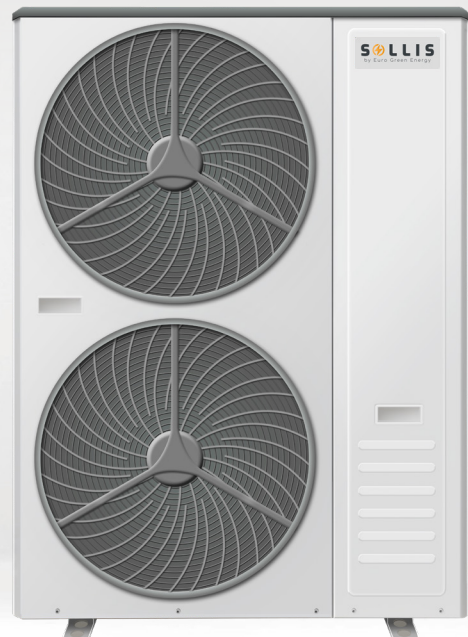


ErP Level A+++ | -35°C Low Temp Heating | +50°C High Temp Cooling
Heating | Hot Water | Cooling | Heating&Hot Water | Cooling&Hot Water

Split Type DC Inverter EVI Air to Water Heat Pump

SR Series

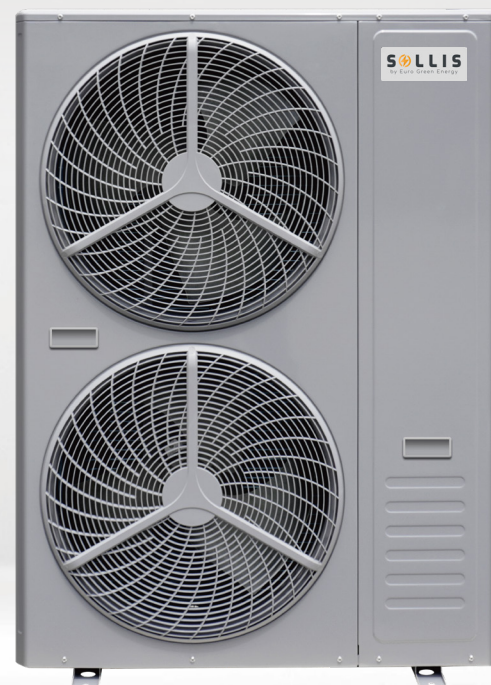
ErP Level A+++ | -35°C Low Temp Heating | 50°C High Temp Cooling



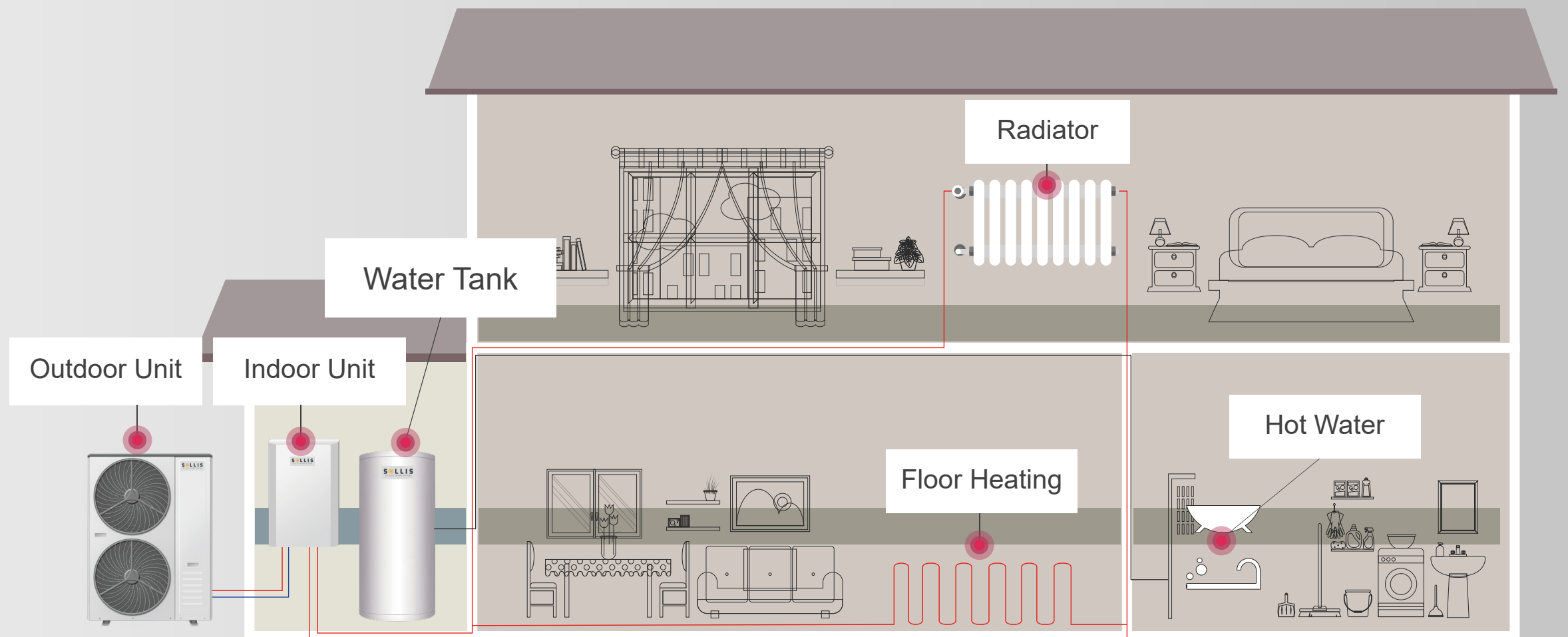
Split Type DC Inverter EVI Air to Water Heat Pump

SF Series

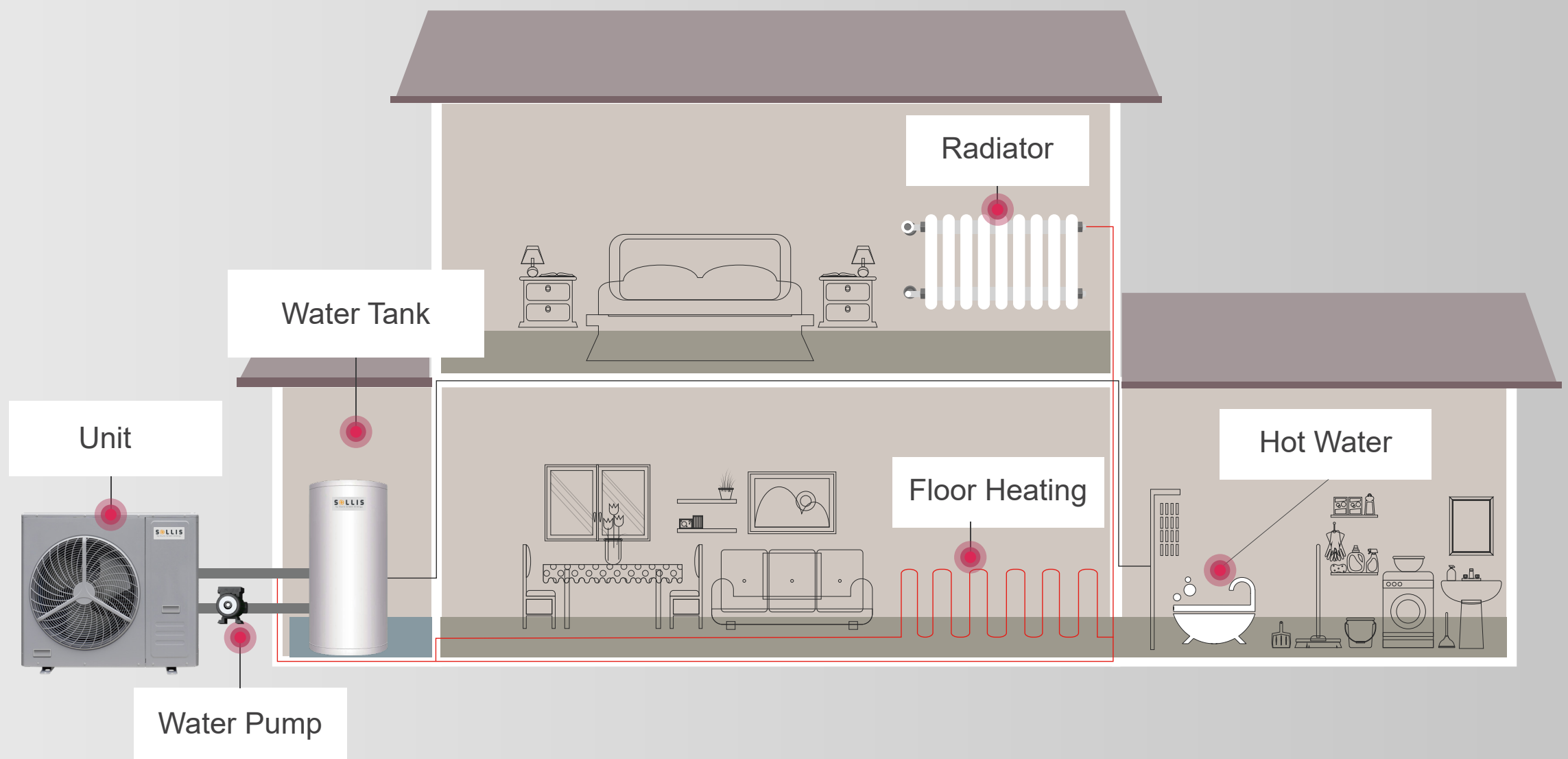
ErP Level A+++ | -35°C Low Temp Heating | 50°C High Temp Cooling



SOLLIS SR Series DC Inverter Air to Water Heat Pump System Diagram



SOLLIS SF Series DC Inverter Air to Water Heat Pump System Diagram



SR Series DC Inverter Air to Water Heat Pump Product Introduction

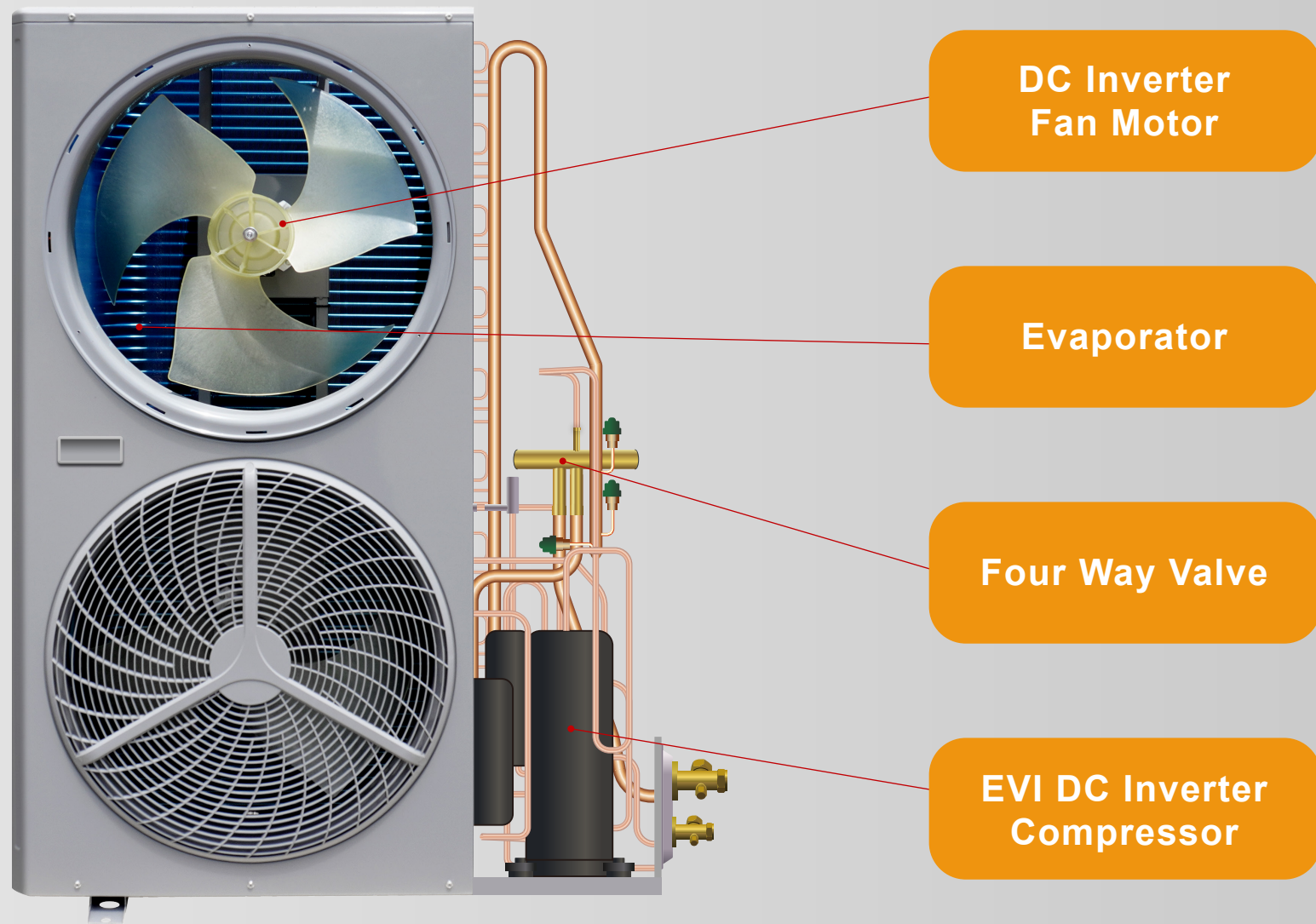
◆ SR Series Inverter Air to Water Heat Pump, is operating steadily under $-35^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ambient temperature, for cold regions Heating in Winter, Cooling in Summer, and with 5 optional functions: Domestic hot water, Heating, Cooling, Heating&Hot Water, Cooling&Hot Water.

◆ Designed as Split Type, Indoor Unit and Outdoor Unit be Connected by Copper pipe, Installation With Simple, Flexible and Conveniently, The Indoor Unit can be Installed in Kitchen, Bathroom or basement, Ensuring less Energy loss, Also Prevent Water Pipes From Freezing in Cold Winter and sun Exposure in hot Summer.

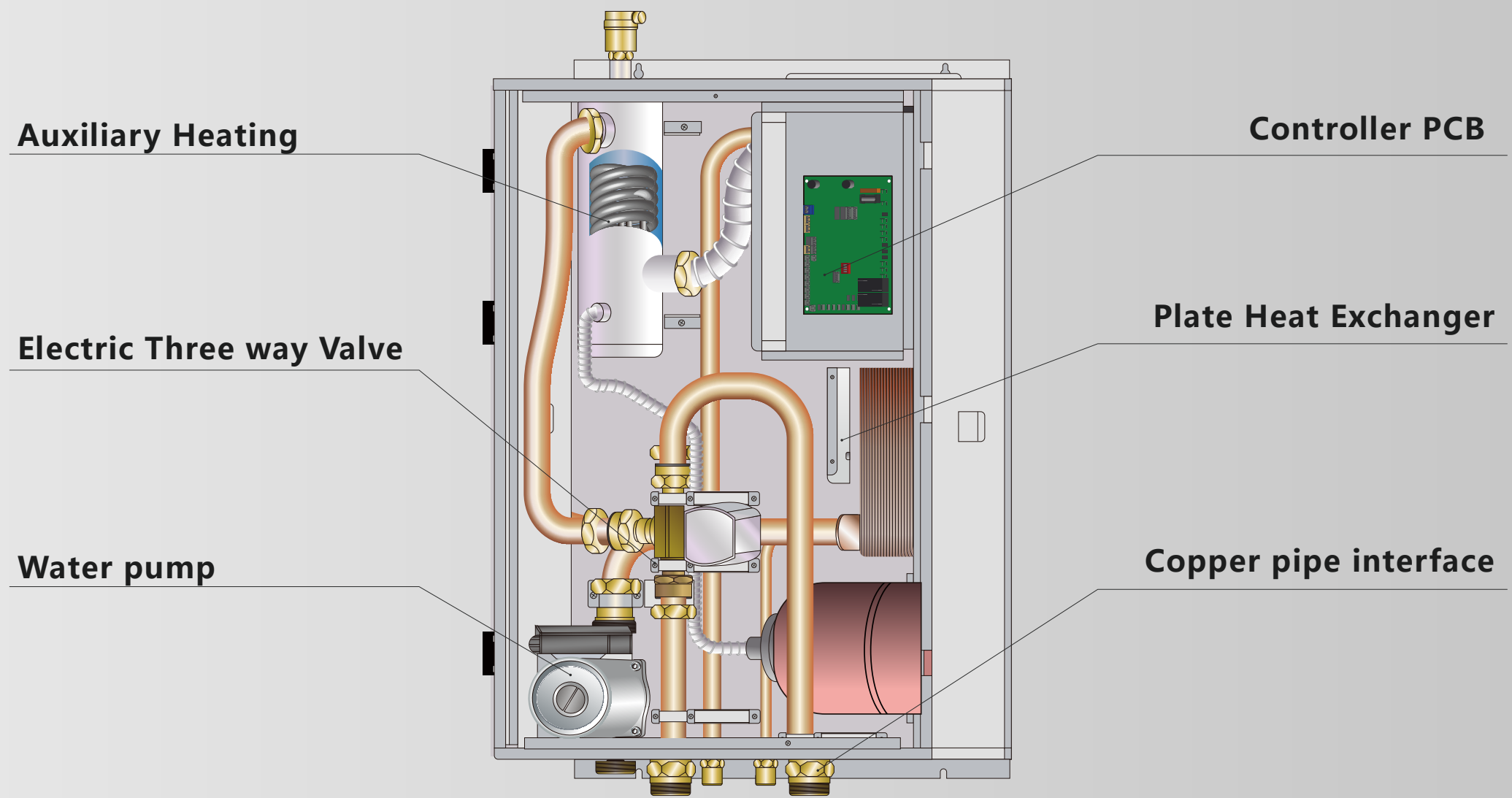
◆ Indoor Unit Mainly Components Includes: Water Pump, Expansion tank, Differential Pressure Water Switch, Electric Three Way Valve, Brazed Plate Heat Exchanger, Auxiliary Heating parts.

◆ Outdoor Unit Mainly Components Includes: EVI Low Temp DC Inverter Compressor, Inverter Controller, Electric Expansion Valve, Four way valve, Pressure Transducer, Motor, Hydrophilic Aluminium fin & Inner-Grooved Copper Evaporator, Refrigerant valve and De-Ice Heater parts.

SOLLIS SR Series DC Inverter Air to Water Heat Pump Outdoor Unit



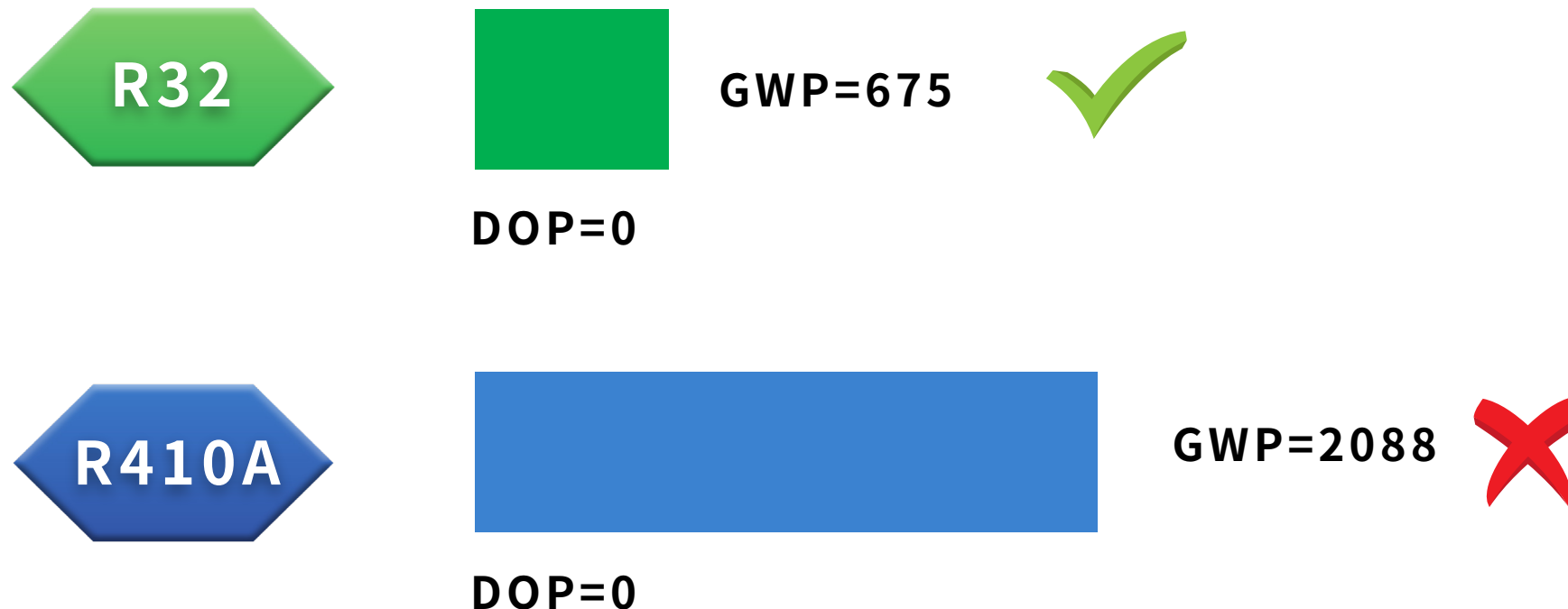
SOLLIS SR Series DC Inverter Air to Water Heat Pump Indoor Unit



SOLLIS SR Series DC Inverter Air to Water Heat Pump Operation Screen



R32 Refrigerant Is Efficient And Environmental Friendly



Comparison Of R32 With R410

- 1、 Critical temperature: R32 has a higher critical temperature which yields a higher COP.
- 2、 Latent heat of vaporization: The heat needed to evaporate R32 is greater than R410A so that the required mass flow rate per unit cooling capacity is smaller and the COP is higher.
- 3、 Volumetric cooling capacity: R32 has gotten a significantly higher volumetric cooling capacity than R410A, which can help to reduce the system pipe size and increase the efficiency.

Top Quality Configuration

Panasonic



Honeywell



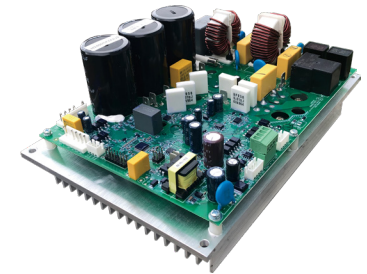
Danfoss



Schneider Electric



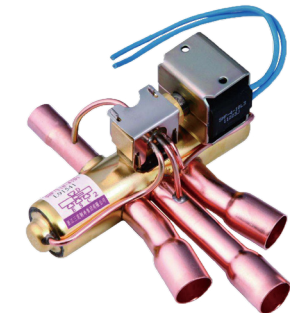
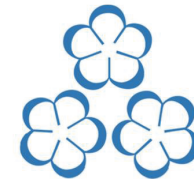
MITSUBISHI ELECTRIC



WOLONG



Sensata Technologies



SF Series | Monobloc Type EVI DC Inverter | Air to Water Heat Pump

Unit Mainly Components Includes Panasonic Brand Rotary Twin-Cylinder EVI Low Temp Explosion-proof DC Inverter Compressor! Danfoss Brand Electric Expansion Valve! SANHUA Brand Four way valve! Sensata Brand Pressure Transducer! Wolong Brand Dc Motor! Hydrophilic Aluminium foil & Inner-Grooved Copper Evaporator! Refrigerant valve and De-Ice Heater so on parts.



Model			SLS-35CHW/SF	SLS-55CHW/SF	SLS-65CHW/SF	SLS-85CHW/SF
Power Supply	V/Hz		230V/30~90Hz	230V/30~85Hz	400V/30~90Hz	400V/30~85Hz
ErP Level / SCOP	35 C		A+++ / 4.51	A+++ / 4.51	A+++ / 4.49	A+++ / 4.48
ErP Level / SCOP	55 C		A++ / 3.5	A++ / 3.5	A++ / 3.46	A++ / 3.43
" 1# Heating Conditions Ambient Air temp 7\$! Water inlet 30\$! Water outlet 35\$ %						
Heating (1)	Rated Heating Capacity (7 C/35 C)	kW	10	15	18	25
	Rated Input Power	kW	2.47	3.68	4.50	6.16
	COP		4.05	4.08	4	4.06
" 2# Heating Conditions Ambient Air temp 7\$! Water inlet 50\$! Water outlet 55\$ %						
Heating (2)	Rated Heating Capacity (7 C/55 C)	kW	8.8	13.2	16	23
	Rated Input Power	kW	3.22	4.80	5.90	8.46
	COP		2.73	2.75	2.71	2.72
" 3# Heating Conditions Ambient Air temp 2\$! Water inlet 30\$! Water outlet 35\$ %						
Heating (3)	Rated Heating Capacity (2 C/35 C)	kW	8.6	13	15.5	22.2
	Rated Input Power	kW	2.38	3.58	4.31	6.12
	COP		3.62	3.63	3.6	3.63
" 4# Heating Conditions Ambient Air temp 2\$! Water inlet 50\$! Water outlet 55\$ %						
Heating (4)	Rated Heating Capacity (2 C/55 C)	kW	8.5	12.5	15	22
	Rated Input Power	kW	3.66	5.34	6.49	9.44
	COP		2.32	2.34	2.31	2.33

" 5# Heating Conditions Ambient Air temp -7\$! Water inlet 30\$! Water outlet 35\$ %						
Heating (5)	Rated Heating Capacity (-7 C/35 C)	kW	8.3	12.2	14.8	21.6
	Rated Input Power	kW	3.55	3.65	4.47	6.55
	COP		2.34	3.34	3.31	3.3
" 6# Heating Conditions Ambient Air temp -7\$! Water inlet 50\$! Water outlet 55\$ %						
Heating (6)	Rated Heating Capacity (-7 C/55 C)	kW	7.6	11.5	14	20.5
	Rated Input Power	kW	3.52	5.35	6.60	9.49
	COP		2.16	2.15	2.12	2.16
" 7# Heating Conditions Ambient Air temp -12\$! Water inlet 36\$! Water outlet 41\$ %						
Heating (7)	Rated Heating Capacity (-12 C/41 C)	kW	6.8	11.5	12.5	17.5
	Rated Input Power	kW	2.85	4.77	5.30	7.35
	COP	w/w	2.39	2.41	2.36	2.38
" 8# Heating Conditions Ambient Air temp -20\$! Water inlet 36\$! Water outlet 41\$ %						
Heating (8)	Rated Heating Capacity (-20 C/41 C)	kW	5.5	9.3	10	14.2
	Rated Input Power	kW	2.78	4.65	5.05	7.17
	COP	w/w	1.98	2	1.98	1.98
Cooling Conditions Ambient Air temp 35\$! Water inlet 12\$! Water outlet 7\$ %						
Cooling	Rated Cooling Capacity (35 C/7 C)	kW	8	12	14	19
	Rated Input Power	kW	3.04	4.60	5.43	7.25
	EER	w/w	2.63	2.61	2.58	2.62
Refrigerant	Type	R32				
Heating & Hot Water Temp	\$	30\$ ~60\$				
Cooling Water Temp	\$	7\$ ~30\$				
Outdoor Temperature limit	\$	-35\$ ~50\$				
Noise Level	dB(A)	53	55	56	62	
Net Weight/Gross Weight	kg	75/85	108/120	108/120	158/172	
Net Dimension(L*W*H)	mm	1000x410x860	1000x410x1387	1000x410x1387	1238*435*1630	
Packing Dimension(L*W*H)	mm	1150*500*990	1150*500*1520	1150*500*1520	1360*525*1760	
& According to EN14825, the data was tested in GSG approved ACKQL low temperature air to water heat pump laboratory.						

SR Series Split Model! Heating & Hot Water & Cooling Type! Indoor Unit and Outdoor Unit be Connected by Copper pipe! Installation With Simple! Flexible and Conveniently! The Indoor Unit can be Installed in Kitchen! Bathroom or basement! Ensuring less Energy loss! Also Prevent Water Pipes From Freezing in Cold Winter and sun Exposure in hot Summer.

Indoor Unit Mainly Components Includes” Germany WITA Brand Water Pump! ACOL Brand Expansion tank! ACOL Brand Differential Pressure Water Switch! Honeywell Brand Electric Three Way Valve! Brazed Plate Heat Exchanger! Auxiliary Heating and so on parts.

Outdoor Unit Mainly Components Includes” Panasonic Brand Rotary Twin-Cylinder EVI Low Temp Explosion-proof DC Inverter Compressor! Danfoss Brand Electric Expansion Valve! SANHUA Brand Four way valve! Sensata Brand Pressure Transducer! DC Inverter Motor! Hydrophilic Aluminium foil & Inner-Grooved Copper Evaporator! Refrigerant valve and De-Ice Heater so on parts.



Model			SLS-25CHW/SR	SLS-35CHW/SR	SLS-55CHW/SR	SLS-65CHW/SR	SLS-85CHW/SR	SLS-105CHW/SR
Power Supply	V/Hz		230V/30~80Hz	230V/30~90Hz	230V/30~85Hz	400V/30~90Hz	400V/30~85Hz	400V/30~90Hz
ErP Level / SCOP	35 C		A+++ / 4.51	A+++ / 4.51	A+++ / 4.51	A+++ / 4.49	A+++ / 4.48	A+++ / 4.5
ErP Level / SCOP	55 C		A++ / 3.5	A++ / 3.5	A++ / 3.5	A++ / 3.46	A++ / 3.43	A++ / 3.47
# 1\$ Heating Conditions” Ambient Air temp” 7% Water inlet 30% Water outlet 35%								
Heating (1)	Rated Heating Capacity (7 C/35 C)	kW	8	10	15	18	25	30
	Rated Input Power	kW	1.95	2.47	3.68	4.50	6.16	7.48
	COP		4.1	4.05	4.08	4	4.06	4.01
# 2\$ Heating Conditions” Ambient Air temp” 7% Water inlet 50% Water outlet 55%								
Heating (2)	Rated Heating Capacity (7 C/55 C)	kW	6.5	8.8	13.2	16	23	27.3
	Rated Input Power	kW	2.36	3.22	4.80	5.90	8.46	10.11
	COP		2.76	2.73	2.75	2.71	2.72	2.7
# 3\$ Heating Conditions” Ambient Air temp” 2% Water inlet 30% Water outlet 35%								
Heating (3)	Rated Heating Capacity (2 C/35 C)	kW	6.5	8.6	13	15.5	22.2	26.5
	Rated Input Power	kW	1.78	2.38	3.58	4.31	6.12	7.38
	COP		3.65	3.62	3.63	3.6	3.63	3.59
# 4\$ Heating Conditions” Ambient Air temp” 2% Water inlet 50% Water outlet 55%								
Heating (4)	Rated Heating Capacity (2 C/55 C)	kW	6.3	8.5	12.5	15	22	25
	Rated Input Power	kW	2.68	3.66	5.34	6.49	9.44	10.87
	COP		2.35	2.32	2.34	2.31	2.33	2.3

# 5\$ Heating Conditions" Ambient Air temp" -7% Water inlet 30% Water outlet 35%								
Heating (5)	Rated Heating Capacity (-7 C/35 C)	kW	6.2	8.3	12.2	14.8	21.6	24.5
	Rated Input Power	kW	1.85	3.55	3.65	4.47	6.55	7.66
	COP		3.35	2.34	3.34	3.31	3.3	3.2
# 6\$ Heating Conditions" Ambient Air temp" -7% Water inlet 50% Water outlet 55%								
Heating (6)	Rated Heating Capacity (-7 C/55 C)	kW	5.8	7.6	11.5	14	20.5	22.8
	Rated Input Power	kW	2.66	3.52	5.35	6.60	9.49	10.70
	COP		2.18	2.16	2.15	2.12	2.16	2.13
# 7\$ Heating Conditions" Ambient Air temp" -12% Water inlet 36% Water outlet 41%								
Heating (7)	Rated Heating Capacity (-12 C/41 C)	kW	6.8	6.8	11.5	12.5	17.5	20.5
	Rated Input Power	kW	2.83	2.85	4.77	5.30	7.35	8.72
	COP	w/w	2.4	2.39	2.41	2.36	2.38	2.35
# 8\$ Heating Conditions" Ambient Air temp" -20% Water inlet 36% Water outlet 41%								
Heating (8)	Rated Heating Capacity (-20 C/41 C)	kW	5.5	5.5	9.3	10	14.2	16.5
	Rated Input Power	kW	0.27	2.78	4.65	5.05	7.17	8.46
	COP	w/w	20.2	1.98	2	1.98	1.98	1.95
Cooling Conditions" Ambient Air temp" 35% Water inlet 12% Water outlet 7%								
Cooling	Rated Cooling Capacity (35 C/7 C)	kW	6	8	12	14	19	24
	Rated Input Power	kW	2.26	3.04	4.60	5.43	7.25	9.41
	EER	w/w	2.65	2.63	2.61	2.58	2.62	2.55
Refrigerant	Type	R32						
Heating & Hot Water Temp	%	30% ~60%						
Cooling Water Temp	%	7% ~30%						
Outdoor Temperature limit	%	-35% ~50%						
Indoor Unit	Auxiliary Heating	kW	3	3	3	3	3	3
	Water Connection	Inch	1.2/DN32					
	Copper Pipe Connection	Inch	1/2&3/4					
	Noise Level	dB(A)	33	33	33	33	35	35
	Net Weight/Gross Weight	kg	47/52	47/52	50/55	50/55	52/57	53/58
	Net Dimension(L*W*H)	mm	552*330*850					
	Packing Dimension(L*W*H)	mm	582*360*900					
Outdoor Unit	Noise Level	dB(A)	53	53	55	56	62	65
	Net Weight/Gross Weight	kg	75/85	80/90	105/117	108/120	158/172	175/189
	Net Dimension(L*W*H)	mm	1000x410x860	1000x410x860	1000x410x1387	1000x410x1387	1238*435*1630	1238*435*1630
	Packing Dimension(L*W*H)	mm	1150*500*990	1150*500*990	1150*500*1520	1150*500*1520	1360*525*1760	1360*525*1760
According to EN14825, the data was tested in GSG approved AOKOL low temperature air to water heat pump laboratory.								

Inverter Low Temperature Commercial Air To Water Heat Pump

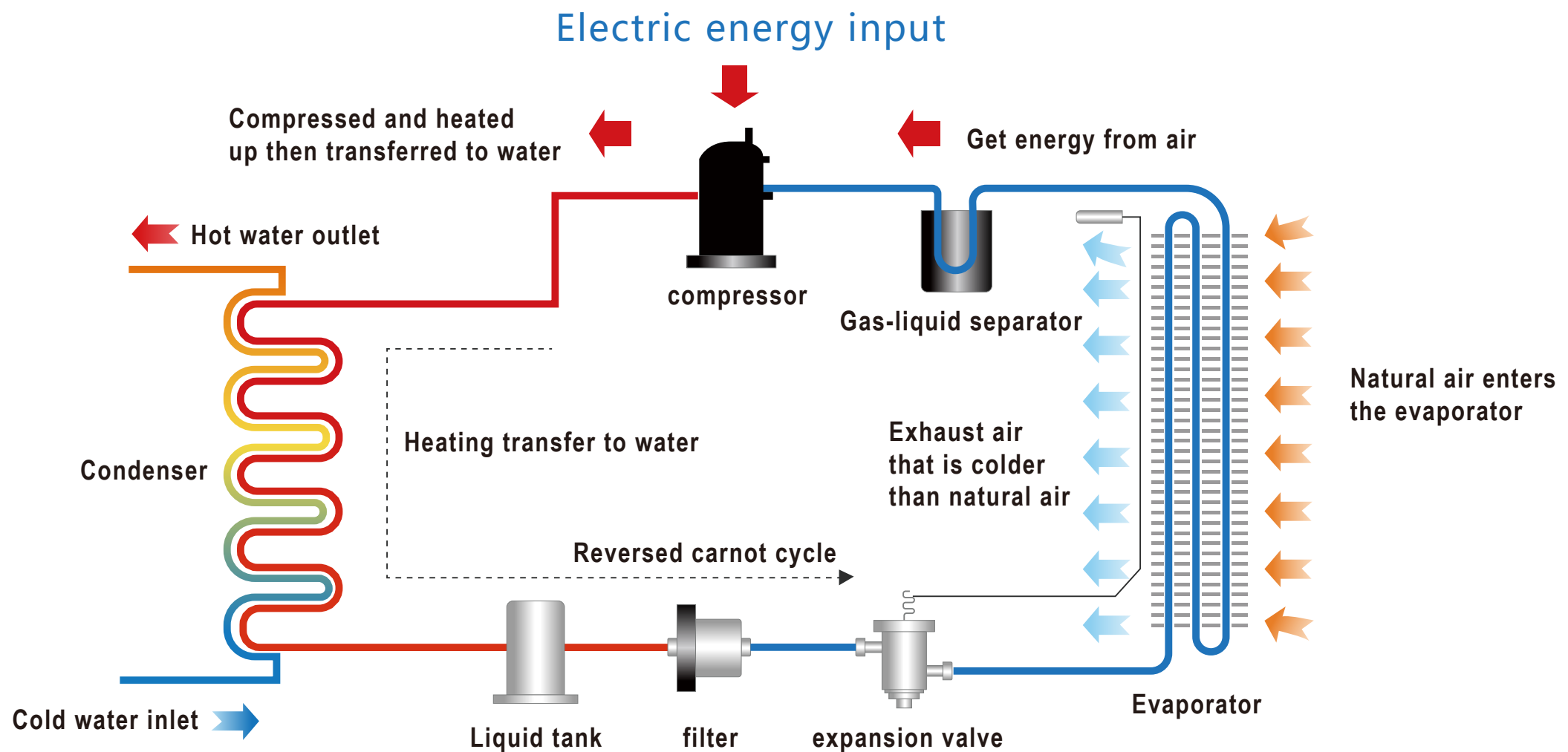
SLC Series

-35 °C Low Temp Heating | 50 °C High Temp Cooling.

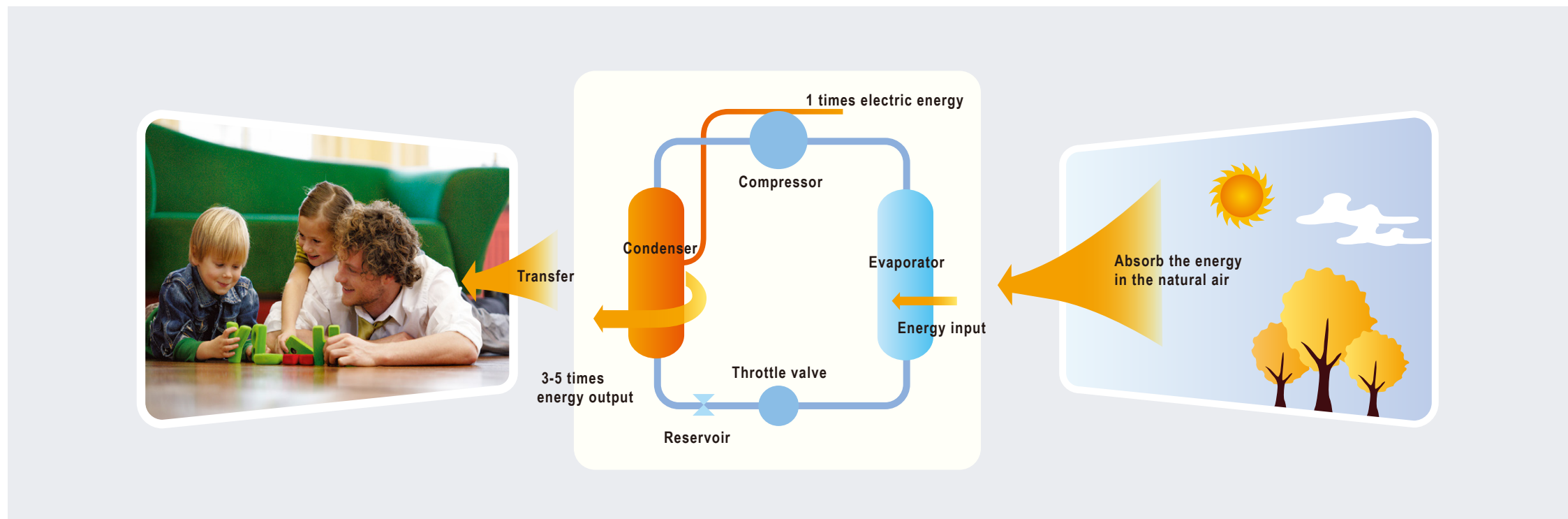
-35°C
5-years warranty



Technical Principles



SOLLIS Air to water heat pump uses heat pump technology to drive through a small amount of electrical energy to obtain free heat energy in the air from the nature, consuming 1 share of electrical energy It can obtain more than 4 parts of heat energy at most, which greatly reduces the cost of electricity. In the cold winter, only a small amount of electricity can be used to achieve a comfortable temperature indoors. Compared with traditional coal, gas or electric heating products, it can save a lot of operating costs and it is safe to use, environmentally friendly and pollution-free.



Application Field

Applicable to: heating, central air-conditioning refrigeration & heating in hotels, schools, factories, hospitals, commercial centers, industrial, agricultural, and animal husbandry and other places.



Well Known Parts

1

DC inverter EVI compressor

DC inverter EVI compressor, on the basis of maintaining the high reliability of DC frequency conversion, innovatively increases the low temperature air jet enthalpy technology, which increases the heating capacity of low temperature environment by more than 30% and meets the heating demand of low temperature environment.



2

DC inverter EVI compressor

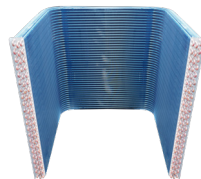


The intelligent IPM DC frequency conversion module realizes automatic adjustment of compressor high-frequency and low-frequency operation speed, intelligent control, and comprehensively improves the stability and high energy efficiency of the system.

3

Wind-side fin heat exchanger

U-shaped multi-exhaust wind side fin heat exchanger, using hydrophilic aluminum foil, R410A environmentally friendly refrigerant special $\phi 7.94$ internally threaded copper tube, good heat exchange performance. The unique hydrophilicity makes the condensate discharge smoothly after defrosting, shortening the defrosting time and improving the heat exchange effect.



4

Water side shell and tube heat exchanger



The high-efficiency new shell-and-tube water-side heat exchanger, the distributor divides the liquid, guarantees the even distribution of the refrigerant, maximizes the use of the heat exchange area, and improves the heat exchange efficiency. Small size, convenient disassembly, simple cleaning and maintenance, anti-blocking, anti-freezing, effectively ensuring the stability and service life of the unit.

5

fan motor

Energy-saving axial fan motor, pure copper coil design. Cooperate with large-diameter 3D simulation fan blades and optimize the design of the motor to effectively reduce losses and improve operating efficiency, so that the motor generates less heat, consumes less power, and has a long operating life.



6

Low temp. economizer



The stainless steel plate economizer and auxiliary enthalpy-increasing components further improve the circulation of the refrigeration and heating system, improve the operating status of the core devices, and ensure the stability of the unit, while further improving the heating capacity of the unit, effectively boosting it by more than 30%.

Strong Cooperation With World-renowned Brands!

100% use world-renowned component configuration!

Panasonic

Danfoss

 **HITACHI**


SANHUA


Sensata
Technologies

 **MITSUBISHI**
ELECTRIC

7

Electronic expansion valve

The throttling method of the electronic expansion valve is more accurate than that of the thermal expansion valve. The refrigerant flow can be automatically adjusted according to the ambient temperature, system pressure, and inlet and outlet water temperature Volume, accurate throttling, small size, high reliability, the product maintains the best condition, and achieves the purpose of energy saving.



8

AC contactor



Well-known brand electrical AC contactor, compact, sensitive, light weight, low energy consumption, stable operation, reliable quality, in line with international electrical safety standards

9

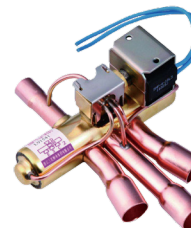
Pressure Sensor

Pressure sensor, ceramic core, manufactured by special process, corrosion-resistant. By detecting the system pressure and turning it into signal source feedback, it effectively guarantees the stable operation of the system



10

Four-way reversing valve



The four-way reversing valve made of pure copper has the advantages of sensitive cold and hot switching, small leakage, fully enclosed and waterproof, safe and reliable, and stable performance.

*DB series DC inverter EVI air to water heat pump (chiller) unit adopts DC inverter EVI compressor, R410A environmentally friendly refrigerant, high-efficiency heating at -35 in winter, and stable cooling in high-temperature environment at 50 in summer.

*DB series adopts the design of top air outlet, which is flexible and convenient for installation. Heating for small commercial spaces and villas. Central air-conditioning refrigeration. It is an ideal choice to replace traditional coal, gas, oil, electric heating, central air-conditioning and other high-energy heating methods.

-35°C
5-years warranty



Model		SLC-155CHW/DB	SLC-255CHW/DB	SLC-305CHW/DB	SLC-505CHW/DB	SLC-605CHW/DB
Power Supply	V/Ph/Hz	380V~415V/50Hz				
Capacity	kW	15HP	25HP	30HP	50HP	60HP
Nominal heating capacity(7)	kW	44	73	88	145	175
Nominal heating input power	kW	13.3	21.2	26.5	42.8	53.5
Nominal heating input current	A	25	32	52	65	108
COP		3.34	3.38	3.36	3.37	3.35
Low Temp.Nominal heating capacity(-12)	kW	30	48	59	95	115
Low Temp.Nomina Heating input power	kW	11.3	19.5	23.5	39.2	46.8
Low Temp.Nomina Heat Capacity input current	A	23	30	47	61	98
COP		2.43	2.45	2.44	2.45	2.45
Nomina Cooling Capacity(35)	kW	38	62	75	125	150

Nominal Cooling input power	kW	14.8	23.5	29.5	47.5	59.6
Nominal Cooling Capacity input current	A	27.5	36	57	75	118
EER		2.65	2.63	2.64	2.62	2.63
IPLV(H)		2.88	2.89	2.88	2.87	2.88
IPLV(C)		2.89	2.87	2.87	2.88	2.87
Max input power	kW	19.2	31	39	63	80
Max input current	A	35	45	72	92	148
Refrigerant	Type		R410A			
Hot water temp.setting range		20~55				
Cold water temp.setting range		6~30				
Ambient temperature		-35~50				
Water side resistance	Kpa	45	46	50	58	60
Circulating water volume	m³/h	6.1	11.2	12.2	22.4	24.4
Connection size	φ (Outer)	DN40	DN50	DN50	DN65	DN65
Max allowable pressure on high and low pressure side	MPa	4.2	4.2	4.2	4.2	4.2
Max allowable pressure on suction and exhaust side	MPa	23./4.2	23./4.2	23./4.2	23./4.2	23./4.2
Anti electric shock level		I	I	I	I	I
waterproof level		IPX4	IPX4	IPX4	IPX4	IPX4
Noise	dB(A)	≤62	≤65	≤68	≤70	≤72
Net weight	Kg	420	780	880	1500	1680
Net Dimensions (L×D×H)	mm	1030*999*2177	1950*999*1917	1950*999*1957	2252*1200*2239	2252*1200*2239

Testing Conditions:

* Nominal heating capacity test conditions' Ambient air dry bulb temperature 7 , wet bulb temperature 6 , inlet temperature 40 , outlet temperature 45 .

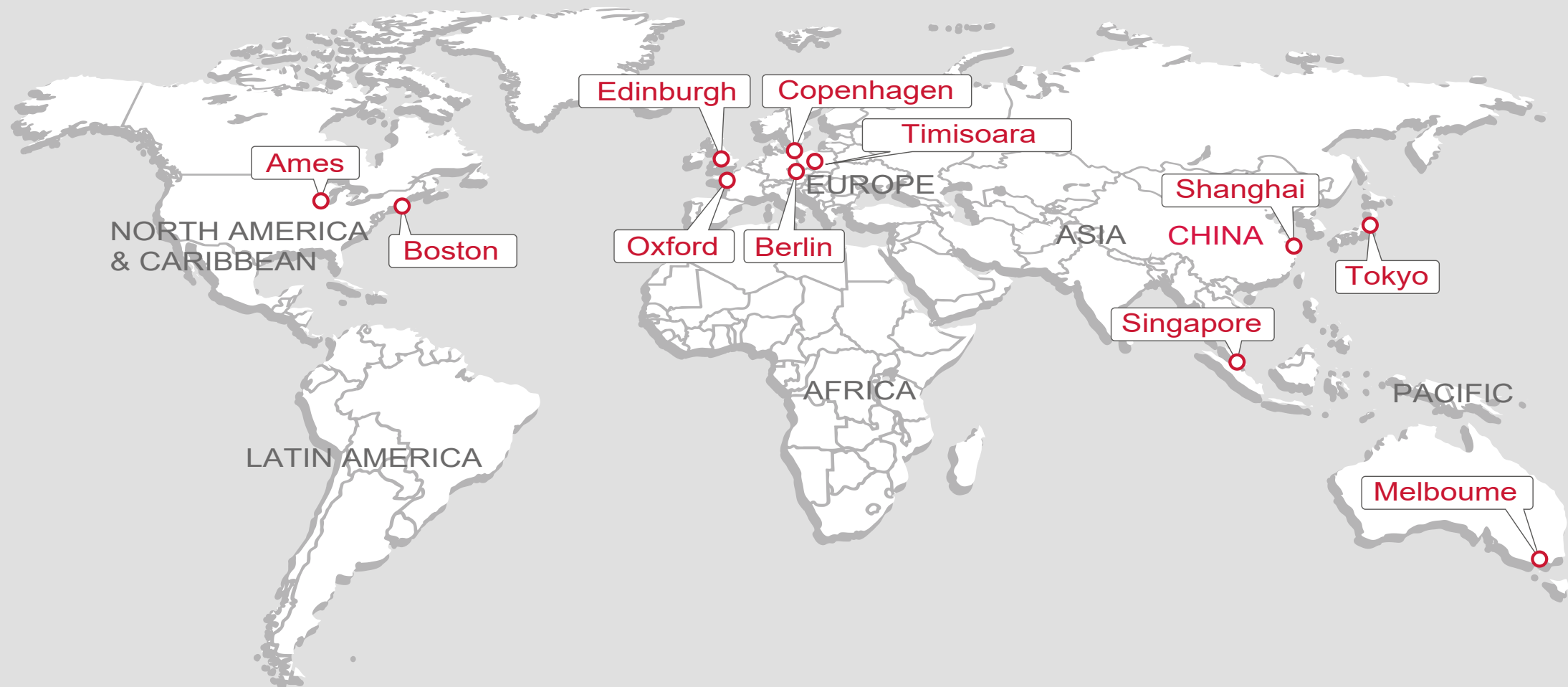
* Low temp.heating capacity test conditions' Ambient air dry bulb temperature -12 , wet bulb temperature -14 , inlet temperature 36 , outlet temperature 41 .

* Nominal cooling capacity test conditions' Ambient air dry bulb temperature 35 , wet bulb temperature 24 , inlet temperature 12 , outlet temperature 7 .

* Note' Due to the continuous improvement of the product, the data in the table will not be notified if there is any change,Please refer to the product nameplate parameters.

Installation Case





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