

Commercial Hot Water Heat Pump

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| Intelligent Control | Stable Performance |
|  |  |
| Famous Brand Compressor | Multiple Protections |
|  |  |
| Energy Efficient | Modular Control |
|  |  |
| High-efficiency EEV | High-efficiency Heat Exchanger |



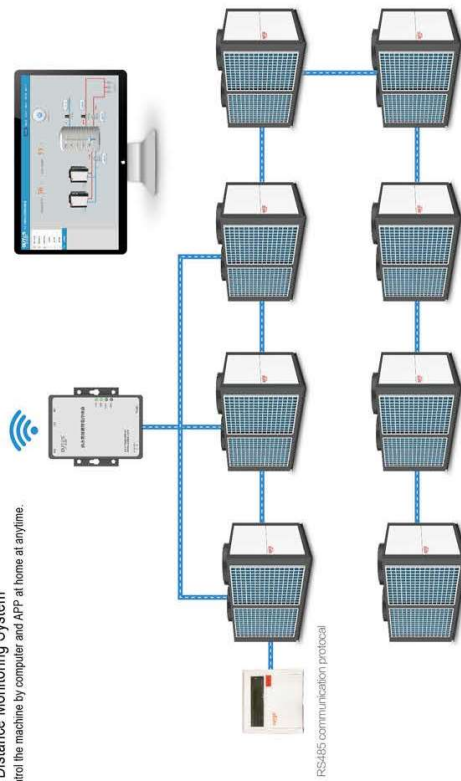
Features

Multi-Protection

- | | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| High and Low Pressure Protection | Reverse (Missing) Phase Protection | Water Level Protection | Frost Protection | Frequent Activation of Protection |
|  |  |  |  |  |
| Overcurrent Protection | Discharge Temp. Protection | Leakage Protection | Water Flow Protection | Sensor Failure Protection |

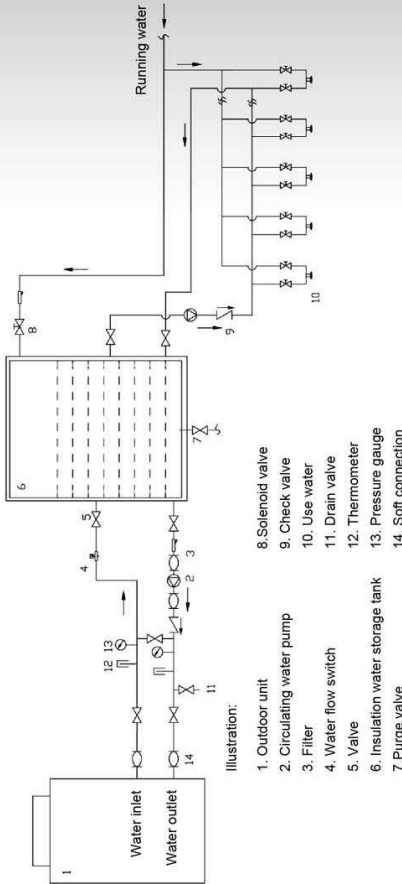
Modular Control

- ☆ **Easy Disassembly and Easy Installation**
The Metal casing can be fully knocked-down for daily maintenance easily.
- ☆ **Start By Stage**
The machine is made with modular structure and in the same system, the modules can start by stage with equal distribution of loads to reduce the impact of unit starting current on the power grid and ensure a long life.
- ☆ **Modular Connection**
Different models and module can be freely connected and can be parallel running max. 16 units together. And it's easy to compat and extend more different model and module together according to the installation site features.
- ☆ **Modular Backup Running**
Modular multi-system design ensure the whole system remain in running even if any error appeared on one or on more compressors or on modular units because of the different modular unit can be backup for each other.
- ☆ **Modular Rotation Running**
The Controller can alternately set the priority for starting which modular unit to balance the working time for all the modular unit, which ensure the reliability and service life of the machine.
- ☆ **Intelligent Control System**
Single Wire Controller can control Max. 16 modular connected units. It can control each modular unit of start and stop sequence, control the system running parameter, active warning of faults in the unit and the user can read the running state and failure state from it.
- ☆ **Long Distance Monitoring System**
You can control the machine by computer and APP at home at anytime.

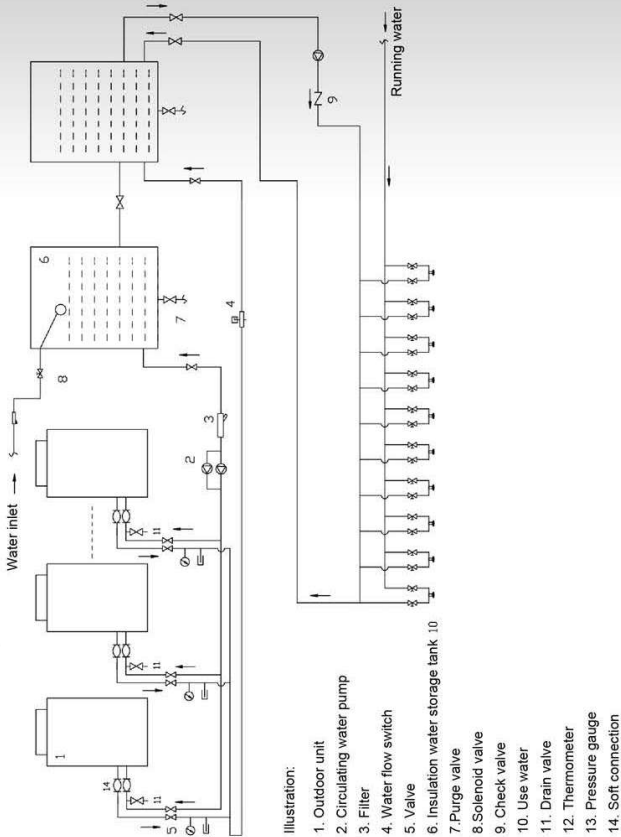


Installation Diagram

Independence-stand-alone system



Modular combination system



80°C Commercial Hot Water Heat Pump



Model	I	AW16R1e	AW32R1e	AW64R1e	AW85R1e
Power Supply	I	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz
Nominal Heating Capacity	kW	16	32	32	84
Rated Input Power	kW	3.6	7.2	7.2	24
COP	W/W	4.44	4.44	4.44	3.5
Water Yield (55℃)	L/h	350	700	700	1810
Max. Input Power	kW	5.7	11.4	11.4	41.1
Max. Working Current	A	11.9	25	25	76
Normal Water Temperature	℃	55	55	55	55
Max. Water Temperature	℃	80	80	80	80
Rated Circulating Water	m³/h	3.9	7.9	7.9	24.0
Noise	dB(A)	≤62	≤64	≤64	≤68
Refrigerant	I	R134A	R134A	R134A	R134A
Compressor Type	I	Scroll	Scroll	Scroll	Scroll
Compressor Qty	Pcs	1	2	2	4
Net Weight	kg	175	350	350	970
Net Dimension(L×W×H)	mm	800×800×1105	1620×950×1180	1620×950×1180	2200×1250×2250
Packing Dimension(L×W×H)	mm	880×840×1185	1700×990×1260	1700×990×1260	2260×1260×2265

Remark:
1. Test conditions: Ambient Temp. (DB/WB): 20℃/15℃, Water Temp. (in/Out): 15℃/80℃;
2. The data above is only for reference, and might be changed without prior notice.

60°C Commercial Hot Water Heat Pump



R410a



Model	/	AW190e	AW230e	AW450e	AW900e	AW1100e	AW1900e	AW2200e
Power Supply	/	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz
Heating Capacity	kW	19	36	48.5	93	110	180	220
Heating Input Power	kW	4.28	8.14	10.81	20.00	24.18	40.25	47.31
COP	WW	4.44	4.42	4.3	4.65	4.55	4.72	4.65
Max Input Power	kW	7.49	14.25	15.61	35.00	42.31	70.44	82.80
Max Working Current	A	14.22	27.07	31.20	66.47	80.35	133.79	157.25
Suggested Water Temp.	°C	55	55	55	55	55	55	55
Max Water Temp.	°C	60	60	60	60	60	60	60
Water Yield	L/h	409	775	1000	2002	2388	4081	4737
Rated Circulating Water	m³/h	3.27	6.19	8.0	16.0	18.92	32.68	37.84
Noise	dB(A)	≤62	≤64	≤64	≤68	≤68	≤70	≤71
Refrigerant	/	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Compressor Type	/	Copeland/Scroll	Copeland/Scroll	Copeland/Scroll	Danfoss/Scroll	Danfoss/Scroll	Danfoss/Scroll	Danfoss/Scroll
Compressor Qty	Pos	1	2	1	2	2	4	6
Water side Heat Exchange	/	Tube in tube	Tube in tube	Tube in tube	Tube in tube	Tube in tube	Tube in tube	Tube in tube
Water Pump Bulled In	/	None	None	None	None	None	None	None
Net Weight	kg	175	350	400	660	750	1540	2180
Net Dimension(L×W×H)	mm	800×600×1105	1620×650×1180	1800×1000×1150	2042×1170×2128	2042×1170×2128	2150×1850×2200	2150×1850×2200
Packing Dimension(L×W×H)	mm	998×688×1246	1740×1000×1300	1880×1050×1270	2120×1220×2300	2120×1220×2300	2300×1930×2360	2300×1930×2360

Remark:
1. Test conditions Ambient Temp. DB(MB) 20/14°C, Water Temp. (in/Out) 15/55°C;
2. The data above is only for reference, and might be changed without prior notice.

60°C Commercial Hot Water Heat Pump (EVI)

EVI Compressor Workable at -25°C



R410a



Model	/	AW340Ee	AW420Ee	AW700Ee	AW850Ee	AW1000Ee	AW1600Ee	AW2200Ee
Power Supply	/	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz	380V/3N50Hz
Nominal Heating Capacity	kW	31.6	38	68	78	92	156	180
Rated Input Power	kW	8.08	9.1	16.8	19	21.6	38.0	42.0
COP	WW	3.91	4.18	4.05	4.11	4.26	4.11	4.29
Rated Working Current	A	15.3	17.3	31.91	36.1	41.0	72.2	79.8
Max Input Power	kW	11	13.5	29.23	27	29.7	52.3	57.8
Max Working Current	A	26.5	37	68	74	82.7	136.0	150.0
Max Water Temperature	°C	55	55	55	55	55	55	55
Water Yield	L/h	592	711	1273	1460	1722	2921	3370
Rated Circulating Water	m³/h	5.4	6.5	11.7	13.4	15.8	26.8	31.0
Water Pressure Loss	kPa	60	55	60	70	70	70	70
Circulating Pipe Diameter	/	DN40	DN40	DN50	DN55	DN65	DN65	DN80
Max Air Exhaust/Absorb Working Pressure	MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Noise	dB(A)	≤64	≤68	≤68	≤70	≤70	≤72	≤73
Refrigerant	/	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Compressor Type	/	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor Qty	Pos	2	2	2	2	2	4	4
Net Weight	kg	350	400	690	710	810	1250	1540
Net Dimension(L×W×H)	mm	1730×950×1640	1110×900×1800	2042×1170×2128	2042×1170×2128	2042×1170×2128	2200×1450×2220	2042×1850×2220
Packing Dimension(L×W×H)	mm	1810×1010×1720	1190×960×1900	2120×1220×2300	2120×1220×2300	2120×1220×2300	2270×1470×2400	2112×1870×2400

Remark:
1. Test conditions Ambient Temp. DB(MB) 7/6/5°C, Water Temp. (in/Out) 9/55°C;
2. The data above is only for reference, and might be changed without prior notice.