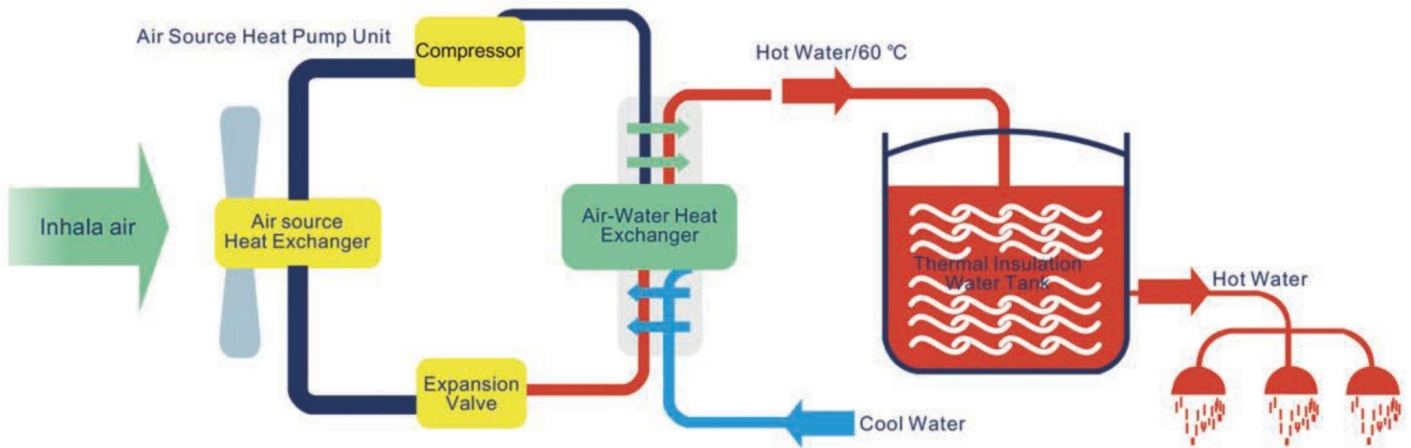


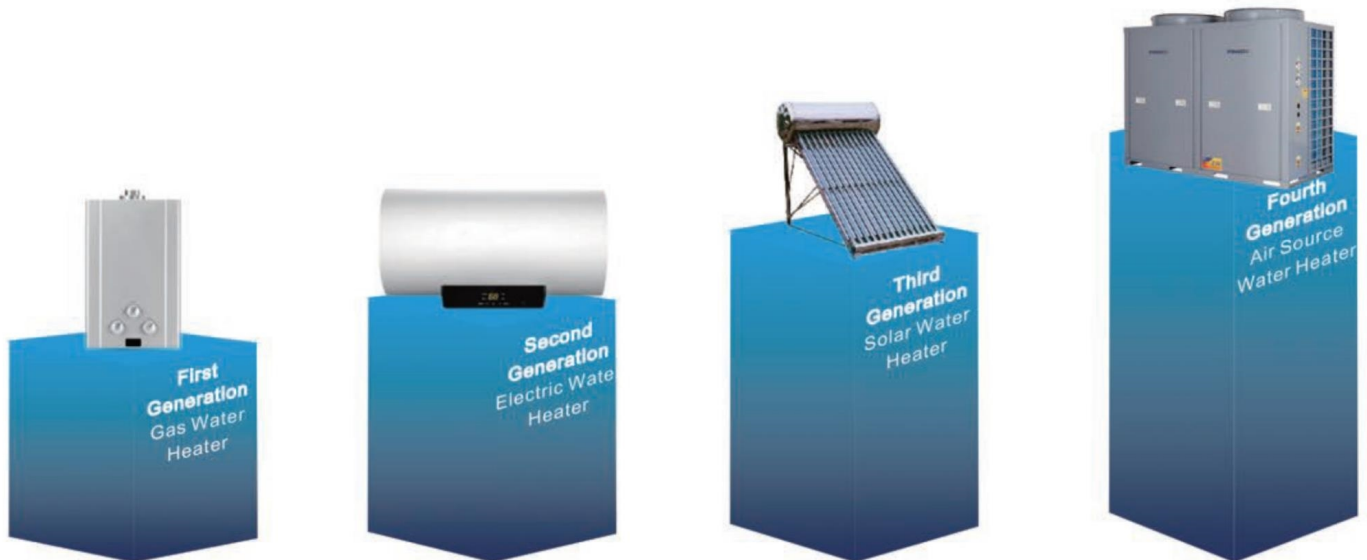
Commercial
Water Heater
Heat Pump



Heat Pump Working Principle



The Evolutionary History Of The Water Heater



The water temperature, the water pressure is easy to fluctuate, the comfort is poor, the energy consumption is high, the exhaust gas is discharged, and the service life is low.

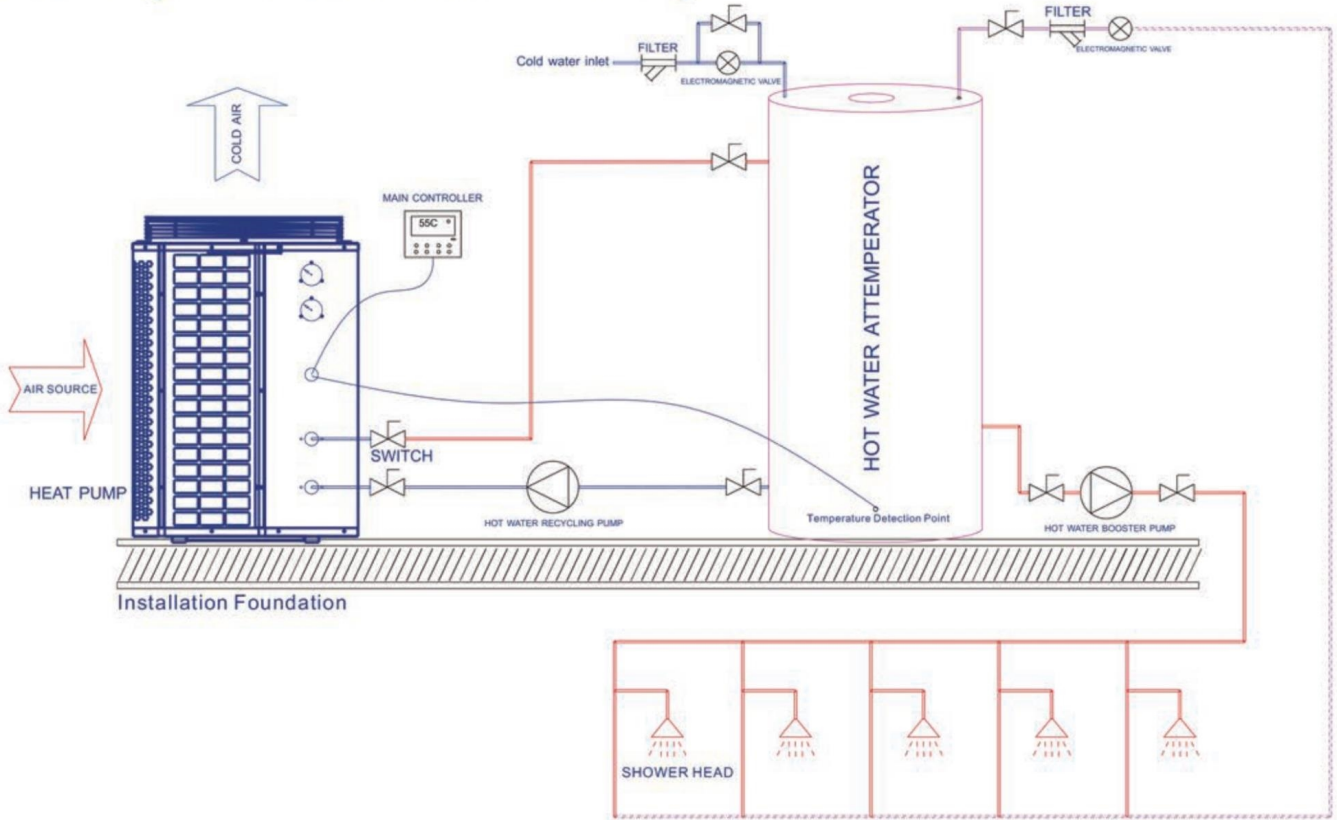
High energy consumption, Hidden danger of electricity leakage, Use water often need to wait, water temperature is easy to high, Serious fouling in the internal of the tank, short service life.

In rainy weather, electric auxiliary heating is often needed, and there are hidden dangers of electric leakage. the water temperature fluctuates and the water pressure is unstable. The water tank is easy to scale. The system occupies a lot of land, and the installation is inconvenient and the failure rate is high.

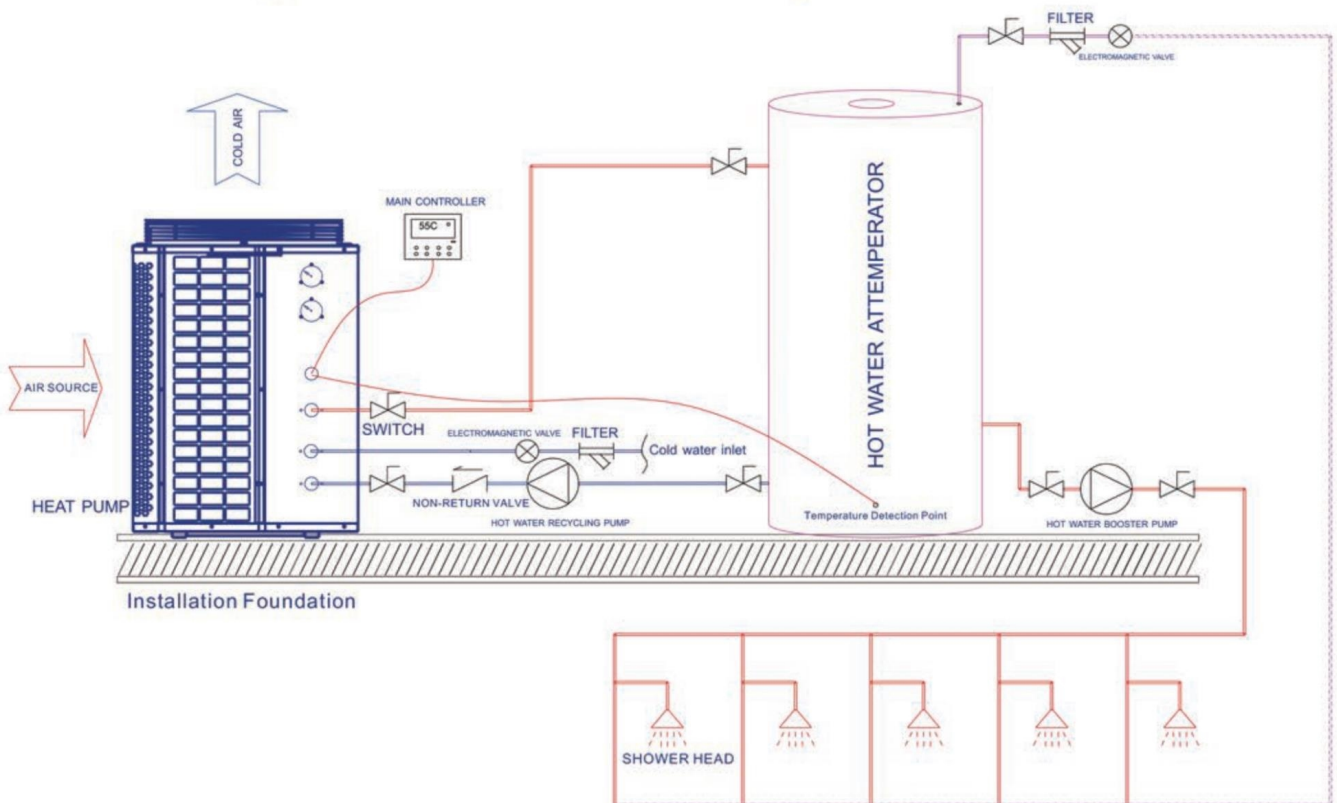
Hot water is mainly from the air, low energy consumption, energy saving and environmental protection, hot water 24 hours constant temperature and constant pressure supply, high comfort, no electricity leakage, gas leakage, explosion and other dangerous, safe and reliable.

Installation Diagram

Circulating Water Heater Installation Diagram



Direct+Circulating Water Heater Installation Diagram





This Commercial Hot Water Heat Pump is the best solution for hot water supply of commercial project, and can work with advantages of high safety, stability, much convenience, energy saving, and environment friendly, which assures 24 hours comfortable hot water supplying. It is widely used in hot water project of school, hotel, hospital, supper market and other large building, which needs large water volume supply.

Heat Pump Main Parts

● Copeland Scroll Compressor

Copeland scroll compressor has the virtue of simplicity of operation and easy to be automation, efficient and so on, owing to not having shuttle mechanism, high reliability, low noise, small changes in torque and smooth movement.



● High Efficiency Heat Exchanger

Inner-grooved tube, Compact structure, small volume, low water resistance enhance the heat exchanger efficiency.



● New Intelligent Inverter Control System

Adopting advanced microcomputer intelligent DC inverter control, low-frequency start, save 1/3 time, soft start which will not produce the peak current of the boot, water temperature fluctuations are small, ensure the operation of the heating system is stable and reliable under the ultra temperature of -30°C .



Intelligent
control program

Heat Pump Main Parts

Intelligent Controller Display

- Human intelligent control
- Long wired distant control
- Multiple timing function
- Internet control support
- Automatic power-off memory function
- Automatic diagnose, error code for trouble
- Available to inquiry any parameter
- Convenient maintenance



Intelligent controller display

High Performance Parts

Commercial water heater heat pump using EEV(electronic expansion valve) to achieving accurate, stable and high efficiency throttling.

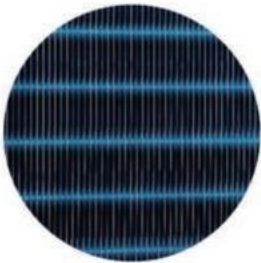
Outdoor Fin-coil heat exchanger is hydrophilic coated, blue fin is optional for more anti-rust for seaside area.

Compressor preheated to protect compressor in cold winter.

Automatic defrosting function with bottom hot piping tech enable our heat pump to work without capacity concession even not necessary to defrost in a long time.



Schneider/CHNT Electric Components



High Efficiency
Hydrophilic Aluminum
Foil Fin Evaporator



Eev



Efficient Blades
Optimized
Air Duct Design



Fully Automatic
Four-way Valve



Heat Pump Features

● Standby Freezing Protection

In order to prevent the water system from freezing, the system has its own intelligent mode. When the water temp. is measured below 4°C, the system starts the circulating water pump, carries out the first stage anti-freezing protection, when the water temp. rises to more than 4°C, the system performs the second stage anti-freezing, start compressor low water temp. heating mode until 12 °C to stop operation.



● Energy Saving Up To 80%

Air source heat pump heats by absorbing the free energy surrounding air, without any waste emission, high efficiency and energy saving up to 80% compared with the traditional electric heating mode.



● Safely

Adopt air source heat pump technology, not use hidden troubles created by electric heating and combustible gas for heating, separate water and electrics, safety is the greatest wealth for our life.



● Comfort

Airosd, 24 hour unlimited central hot water system and floor radiant heating more comfortable for human body to supply a high quality life.



● Convenient installation

The installation site of the heat pump is convenient, so long as the air is fully flowing, such as the external wall, the roof or indoor is suitable.



Specification

Commercial Heat Pump Water Heater

Model		XD-BKR03	XD-BKR05	XD-BKR06	XD-BKR07	XD-BKR10	XD-BKR12	XD-BKR15	XD-BKR20
Heating Mode		Circulating							
Working Temp.	°C	-10 ~ 43							
Rated Heating Capacity	kW	11	18.8	22	27	38	45	55	75
Rated Input Power	kW	2.6	4.4	5.3	6.5	9.2	11	13	18.5
COP	W/W	4.23	4.32	4.15	4.15	4.13	4.09	4.00	4.05
Max. Working Current	A	11	14	16	20	25	31	38	45
Power Supply	V/Ph/Hz	380-415V/3N~/50Hz							
Compressor Qty	pcs	1	1	1	1	2	2	2	4
Compressor	/	Panasonic / Emerson Copeland Scroll							
Fan Qty	pcs	1	1	1	2	2	2	1	2
Fan Input Power	W	90×1	250×1	250×1	250×1	250×2	250×2	550×1	550×2
Air Flow Direction		Horizontal/Vertical		Vertical					
Heat Exchanger		High Efficiency shell in tube heat exchanger							
Evaporator		Inner threaded pipe + hydrophilic aluminum foil							
4-Way Valve		Sanhua / Saginomiya							
Electronic Expansion Valve		Sanhua / Saginomiya / Danfoss							
Contactors		Schneider / CHNT							
Cabinet Materials		Galvanized powder coated steel / Stainless steel Optional							
Controller		7m LCD controller							
Safety Function		High and low pressure protection, Overload protection, Temperature protection Power phase sequence protection, etc.							
IP Code		IPX4							
Max. Water Temp.	°C	55-60							
Water Yield	L	240	400	475	560	817	950	1120	1600
Water Flow	m³/h	2~3	4~5	5~6	6~7	7~10	9~12	10~13	14~20
Water Pressure Loss	kPa	50							
In/Out Water Connector	/	D25	D25	D25	DN32	D32	D40	D40	D50
Refrigerant Type	/	R22 / R407C / R410A / R417A							
Refrigerant Quantity	kg	2.2	3.4	3.5	4	6.6	7	8	13.2
Noise	dB(A)	≤55	≤59	≤59	≤65	≤65	≤65	≤65	≤68
Unit Size(L/W/H)	mm	655/695/810	710/710/1010	710/710/1010	710/710/1010	1450/710/1180	1440/800/1380	1100/900/2100	1800/1100/2150
Packing Size(L/W/H)	mm	685/725/940	740/740/1140	740/740/1140	740/740/1140	1480/740/1310	1470/830/1510	1350/605/1845	1830/1130/2280
Net Weight	kg	100	180	200	250	280	310	330	630
Gross Weight	kg	115	205	230	260	315	345	360	670

Remarks:

1. Test conditions: (DB/WB) 20°C/15°C, inlet water temperature 15°C, outlet water temperature 55°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.

Products Photos



XD-BKR03



XD-BKR03



XD-BKR05
XD-BKR06



XD-BKR05/XD-BKR06
XD-BKR07



XD-BKR10



XD-BKR12
XD-BKR15



XD-BKR20

Specification

85°C High Temp. Industrial Water Heater

Model		XD-BKR03G	XD-BKR05G	XD-BKR08G	XD-BKR12G	XD-BKR12G
Heating Mode		Circulating				
Working Temp.	°C	-7 ~ 45				
Rated Heating Capacity	kW	10	14	27	53	75
COP	W/W	3	2.9	3	3	3
Heating Input Power	kW	3.8	4.7	8.67	17.3	28
Max. Working Current	A	10	12.5	26	48	60
Power Supply	V/Ph/Hz	380-415V/3N~/50Hz				
IP Code	/	IPX4				
Safety Function		High and low pressure protection, Overload protection, Temperature protection Power phase sequence protection, etc.				
Refrigerant Type / Weight	-/kg	R134A/4.0	R134A/4.25	R134A/4.5×2	R134A/7.5×2	R134A/9.5×2
Compressor Qty	pcs	1	1	2	2	4
Compressor Type	/	Scroll				
Max. Water Temp.	°C	80~85				
Water Heat Exchanger	/	High efficiency Shell in tube heat exchanger				
Evaporator	/	Inner threaded pipe + hydrophilic aluminum foil				
In/Out Water Connector	/	DN25	DN25	DN32	DN65	DN80
Water Flow	m³/h	2.2	2.5	5	8.9	12
Air Flow Direction	/	Vertical / Horizontal			Vertical	
Fan Motor Qty	pcs	1	1	2	2	2
Noise	dB(A)	≤56	≤56	≤60	≤68	≤72
Unit Size (W×D×H)	mm	710/710/1010	710/710/1010	1450//710/1180	1800/1100/2150	2000/1100/2150
Packing Szie (W×D×H)	mm	740/740/1140	740/740/1140	1480/740/1310	1830/1130/2280	2030/1130/2280
Net Weight	kg	160	180	320	630	950
Gross Weight	kg	180	200	370	670	1010

Remarks:

1. Test conditions: (DB/WB) 20°C/15°C, Inlet water temperature 60°C, outlet water temperature 65°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.

Products Photos



XD-BKR03G



XD-BKR05G



XD-BKR08G



XD-BKR12G



XD-BKR12G

Specification

Direct+Circulating Heat Pump Water Heater

Model		XD-BKZ03D	XD-BKZ05D	XD-BKZ06D	XD-BKZ10D	XD-BKZ12D
Heating Mode	/	Directly Heating + Circulation				
Working Temp.	°C	-10 ~ 43				
Rated Heating Capacity	kW	11	18	22	38	44
Heating Input Power	kW	2.8	4.7	5.5	9.5	11
Max. Working Current	A	5.5	8.8	10.5	17.7	21
Power Supply	V/Ph/Hz	380-415V/3N~/50Hz				
Compressor Type	/	Copeland Scroll				
Compressor Qty	pcs	1	1	1	2	2
Fan Qty	pcs	1	1	1	2	2
Motor Input Power	W	90×1	250×1	250×1	250×2	250×2
IP Code	/	IPX4				
Max. Water Temp.	°C	55-60				
Air Flow Direction	/	Horizontal/Vertical	Horizontal	Vertical	Vertical	Vertical
Water Yielding	L	240	400	475	817	950
Water Flow	m³/h	2.9	4.8	5.8	9.6	11
Water Pressure Loss	kPa	50				
In/Out Water Connector	/	DN20	DN20	DN20	DN25	DN25
Recycle Water Connector	/	DN25	DN25	DN25	DN32	DN40
Refrigerant Type	/	R22/R407C/R417A/R410A				
Refrigerant Quantity	kg	2.2	3.3	3.5	6.6	7
Noise	dB(A)	55	58	60	63	65
Unit Size(L/W/H)	mm	655/695/810	710/710/1010	710/710/1010	1440/800/1380	1440/800/1380
Packing Size(L/W/H)	mm	685/725/940	740/740/1140	740/740/1140	1470/830/1510	1470/830/1510
Net Weight	kg	105	185	205	315	325
Gross Weight	kg	110	192	212	325	335

Remarks:

1. Test conditions: (DB/WB) 20°C/15°C, inlet water temperature 15°C, outlet water temperature 55°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.

Products Photos



XD-BKZ03D



XD-BKZ05D



XD-BKZ06D



XD-BKZ10D



XD-BKZ12D

Specification

-30°C Low Temp. Commercial Water Heater

Model		XD-BKRD05	XD-BKRD10	XD-BKRD20
Working Temp.	°C	-30~43	-30 ~ 43	-30~43
Rated Heating Capacity	kW	16.5	33	60
COP	W/W	3.7	3.8	3.8
Rated Input Power	kW	4.45	8.7	15.6
Max. Working Current	A	12.5	26	48
Power Supply	V/Ph/Hz	380~415V/3N~/50Hz		
IP Code	/	IPX4	IPX4	IPX4
Safety Function	/	High and low pressure protection; Overload protection; Temperature protection;		
Refrigerant Type / Weight	-/kg	R407c/4.0	R407C/4.0×2	R407c/8.5×2
Compressor Qty	pcs	1	2	2
Compressor Type	/	EVI Scroll Compressor		
Max. Temp. Outlet Water	°C	60	60	60
Water Heat Exchanger	/	Tube in Shell heat exchanger		
Evaporator	/	Inner threaded pipe + hydrophilic aluminum foil		
Waterpipe Nozzle Size	/	DN25	DN 32	DN80
Water Flow	m³/h	2.8	5.7	10.3
Air Flow Direction	/	Horizontal/Vertical	Vertical	
Fan Motor Qty	pcs	1	1	2
Noise	dB/(A)	56	62	69
Unit Size(W×D×H)	mm	1115×425×1250	1450//710/1180	1800/1100/2150
Packing Size(W×D×H)	mm	1200×510×1330	1480/740/1310	1830/1130/2280
Net Weight	kg	165	340	650
Gross Weight	kg	178	370	690

Remarks:

1. Test conditions: (DB/WB) 7°C/6°C, inlet water temperature 9°C, outlet water temperature 55°C.
2. Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.

Products Photos



XD-BKRD05



XD-BKRD05



XD-BKRD10



XD-BKRD20