CATALOGUE

HEAT PUMP

Ecosource

Innovation et technologie pour des solutions éco énergétiques!

Innovation and technology for efficient eco energy solutions!

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HEAT PUMPS

Introduction

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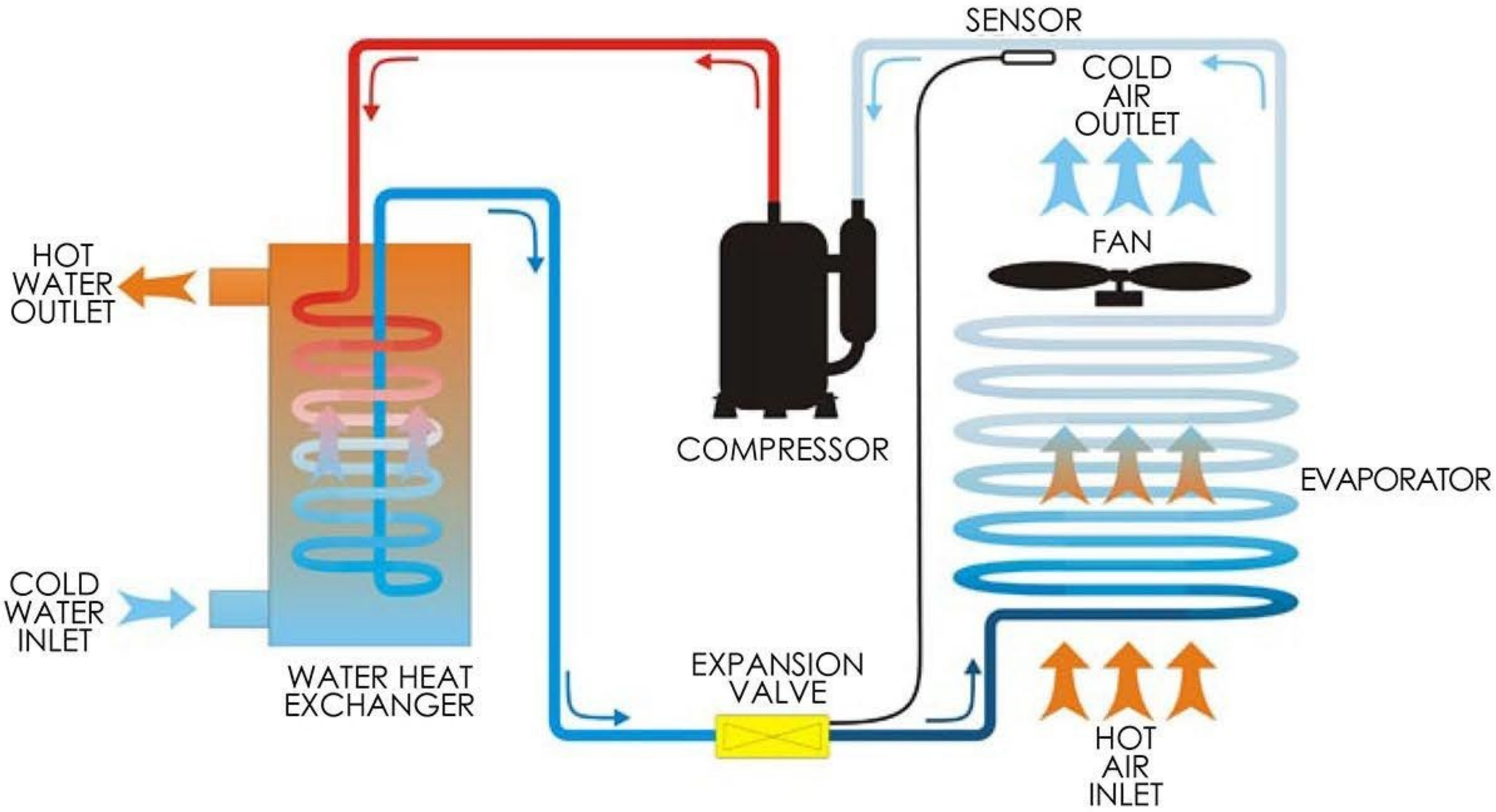
HEAT PUMP technology is based on the concept of heat transfer. Instead of burning fuel to generate heat, heat pumps simply move heat from one place where it is plentiful (the source), to another place, a water storage tank (the heat sink).

KEY BENEFITS

- Energy Conservation: saving 70-90% of energy compared with electrical, 70-80% compared with gas
- Environmental protection: low carbon, pollution-free
- Durability: 50,000 hours continuous duty, life time 10~15 years
- Good C.O.P from 3.8~5.22, High efficiency
- Wide range of applications: They are suitable for -7~40℃. Impervious to climate
- Safety: No risk of gas leaking, authentically achieving water and electricity separation

HOW IT WORKS



HEAT PUMPS

Air to Water Heat Pump

Residential Series

Ecosource

KEY BENEFITS

- Saving up to 80% of energy compared with electrical/gas water heating
- Extremely compact structure, easily demountable for access
- Reverse cycle valve, low carbon, environment protection
- Durable and easy maintenance, 50,000 hours continuous duty, life time 10~15 years

KEY FEATURES

- Designed for common weather area, between 10~38°C
- High efficiency compressor, R410a and R407c refrigerant are available for option
- Stainless steel buffer tank included
- The C.O.P. is 4.10~4.15

Model	Unit	ECO-HP-101	ECO-HP-102	ECO-HP-103	ECO-HP-104	ECO-HP-105	ECO-HP-106	ECO-HP-107
Heating Capacity	kW	6.0	8.2	11.5	11.5	13.5	13.5	17.5
	BTU/h	20500	27000	39000	39000	46000	46000	60000
Cop	\	4.10	4.12	4.11	4.12	4.12	4.15	4.10
Cooling Capacity	kW	5.1	7.1	9.6	9.6	12.0	12.0	15.0
	BTU/h	17400	24200	32700	32700	41000	41000	51000
EER	\	2.85	2.83	2.82	2.81	2.85	2.88	2.80
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	380/3/50	230/1/50	380/3/50	380/3/50
Compressor Type		Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Number		1	1	2	2	2	2	2
Tank size	L	16	23	32	32	32	32	32
Net Dimensions(L/W/H)	mm	1110/470/850	1110/470/850	1110/470/1250				
Shipping Dimensions(L/W/H)	mm	1250/500/900	1250/500/900	1250/500/1300				
20' Container		38		19				

Heating: Ambient temp.(DB/WB): 7°C/6°C, Water temp.(In/Out): 30°C/35°C
Cooling: Ambient temp.(DB/WB): 35°C/24°C, Water temp.(In/Out): 12°C/7°C

HEAT PUMPS

Air to Water Heat Pump

Commercial Series

Ecosource

KEY BENEFITS

- Saving up to 80% of energy compared with electrical/gas water heating
- Extremely compact structure, easily demountable for access
- Reverse cycle valve, low carbon, environment protection
- Durable and easy maintenance, 50,000 hours continuous duty, life time 10~15 years

KEY FEATURES

- Scroll compressor with R410a refrigerant. It's helpful to get better performance in low temperature
- Equipped with big evaporator
- Water side equipped with EST high efficiency exchanger
- Tested in low operating temperature, and high C.O.P. in practical working condition

Model	Unit	ECO-HP-202	ECO-HP-204	ECO-HP-205	ECO-HP-206	ECO-HP-207	ECO-HP-208
Heating Capacity	kW	15.0	17.0	23.0	28.0	35.0	70.0
	BTU/h	52000	60000	78000	95500	120000	240000
COP	\	4.10	4.11	4.10	4.12	4.10	4.11
Cooling Capacity	kW	11.6	13.5	18.0	22.5	25.5	56.0
	BTU/h	40000	46000	61500	76700	87000	191000
EER	\	2.80	2.77	2.83	2.60	2.50	2.75
Power Supply	V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Compressor Type	\	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Number	\	1	1	2	2	2	2
Net Dimensions(L/W/H)	mm	1015/735/1130			1490/735/1130		2050/900/1820
Shipping Dimensions(L/W/H)	mm	1095/815/1270			70/815/1270		2200/1180/2060
20' Container		14			10		4

Heating: Ambient temp.(DB/WB): 7℃/6℃, Water temp.(In/Out): 30℃/35℃
Cooling: Ambient temp.(DB/WB): 35℃/24℃, Water temp.(In/Out): 12℃/7℃
(Above information just for your reference,Please refer to nameplate on each unit)

HEAT PUMPS

Air to Water Heat Pump

Integrated Series

Ecosource

KEY BENEFITS

- Attractive design for family
- Saving up to 80% of energy compared with electrical/gas water heating
- Reverse cycle valve, low carbon, environment protection
- Durable and easy maintenance, 50,000 hours continuous duty, life time 10~15 years

KEY FEATURES

- Stainless steel tank inside, plus 50mm insulation
- Double wall exchanger keeping refrigerant far away from water
- High efficiency compressor with R134a refrigerant
- The C.O.P. is 3.8

Model	Unit	ECO-HP-301	ECO-HP-302	ECO-HP-303
Heating Capacity	kW	1.8	1.8	1.8
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
COP		3.8	3.8	3.8
Compressor Type				Rotary
Water Tank Volume	L	200	250	300
Net Dimensions(D×H)	mm	Φ560×1700	Φ640×1515	Φ640×1825
Shipping Dimensions(L/W/H)	mm	630/630/1840	720/720/1650	720/720/1960
20' Container		40	40	30

Heating: Ambient temp.:15℃/11℃,Water temp. from 15℃ to 45℃

HEAT PUMPS

Air to Water Heat Pump

Inverter Series

Ecosource

KEY BENEFITS

- Compact structure, easily demountable for access
- Saving up to 80% of energy compared with electrical/gas water heating
- Reverse cycle valve, low carbon, environment protection
- Durable and easy maintenance, 50,000 hours continuous duty, life time 10~15 years

KEY FEATURES

- Reliable compressor with R410a refrigerant
- Intelligent system with flexible capacity output adjusts automatically according to your room temperature
- Water exchanger equipped with Danfoss stainless steel Plate exchanger
- The C.O.P. is 3.94~4.39

Model	Unit	ECO-HP-401	ECO-HP-402
Heating capacity	kw	4.2/12.3	6.7/19.8
	BTU/h	14200/41800	23000/67300
COP		3.97/4.39	3.94/4.38
Cooling capacity	kw	2.8/7.5	4.5/12.0
	BTU/h	9500/25500	15300/40800
EER		2.15/2.70	2.10/2.65
Power supply	V/ph/Hz	230/1/50	230/1/50
Compressor	/	Rotary	Rotary
Fan number	/	1	2
Net Dimension(L/W/H)	mm	1190/445/750	1385/450/1180
Shipping Dimension(L/W/H)	mm	1200/490/800	1390/500/1300
20' Container		42	19

Heating:Ambient temp.(DB/WB):7℃/6℃. Water temp:(in/out):30℃/35℃;
Cooling:Ambient temp.(DB/WB):35℃/24℃. Water temp:(in/out):12℃/7℃;
(Above information just for your reference, please refer to nameplate on each unit)

HEAT PUMPS

Water to Water Heat Pump

Ground Source Series

Ecosource

KEY BENEFITS

- Extremely compact structure, lock door design, easy demountable for access
- Saving up to 80% of energy compared with electrical/gas water heating
- Reverse cycle valve, low carbon, environment protection
- Durable and easy maintenance, 50,000 hours continuous duty, life time 10~15 years

KEY FEATURES

- Ground source heat pump absorbs energy from underground and then transfers it into warm water
- Expansion valve and R410a refrigerant make the unit operating more flexible
- Water side equipped with AISI 316 steel plate exchanger
- The C.O.P. is 5.10~5.22

Model	Unit	ECO-HP-501	ECO-HP-502	ECO-HP-503	ECO-HP-504	ECO-HP-505	ECO-HP-506	ECO-HP-507	ECO-HP-508	ECO-HP-509
Heating Capacity	kW	10.0	14.5	17.8	19.3	22.0	28.5	35.6	38.6	58.0
	BTU/h	34000	50000	60700	65800	75000	97000	121000	131000	197000
COP		5.10	5.15	5.22	5.18	5.17	5.12	5.15	5.14	5.15
Power Supply	V/Ph/Hz	230/1/50	230/1/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Compressor		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Unit Net Dimensions(L/W/H)	mm	600/630/1050					1152/760/1000			1450/900/1360
Unit Shipping Dimensions(L/W/H)	mm	710/720/1180					1230/840/1140			1520/980/1500
20' Container		48					20			7

Heating：Using Side Water Temp.(In/Out):30℃/35℃;Heat Source Water Temp.(In/Out):10℃/—