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www.bexiegroup.com

BEXIE GROUP designs, manufactures and delivers high-performance solar electric technology worldwide.
Our high-eficiency solar cells enable us to produce different types of solar panels with highest efficiency.

BEXIE GROUP

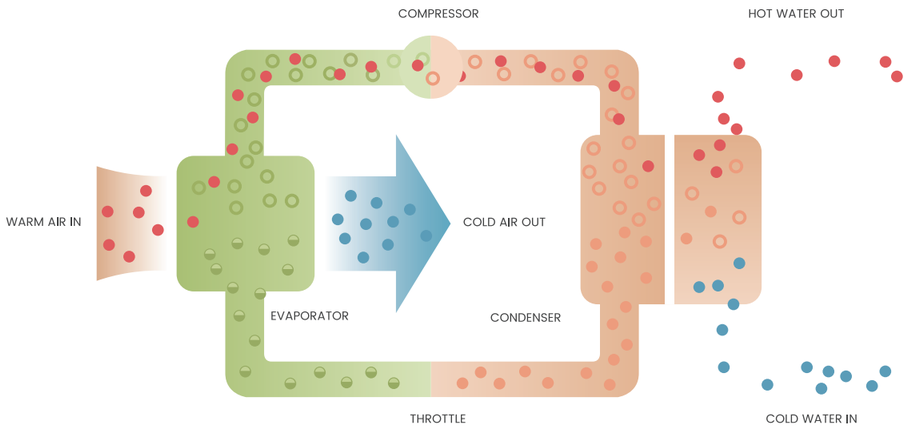
PRODUCT CATALOGUE

ALL-IN-ONE

AIR SOURCE HEAT PUMP

What is an air to water heat pump?

An air to water heat pump is an electrical device that takes heat from ambient air and transfers it to water. And provide heating or hot water inside the home, in the most efficient and sustainable way. It is an extremely energy-efficient way of heating or sanitary hot water to every home while also reducing your household's carbon emissions.



Benefit of heat pump

Compared to conventional boilers and electric heaters, high energy efficient air to water heat pump can make a significant difference. By extracting energy from the outside air to convert it into water, this technology helps reduce CO_2 emissions and environmental impact. At same power input, the air to water heat pump offers about four times heat output than electric heater does.

Heat output comparison of 1kW input

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Sustainable and green
Reduced CO_2 emissions and environmental impact.

R290 refrigerant, also known as propane, has gained popularity due to its many advantages.

Natural refrigerant
Ozone depletion potential of 0
Global warming potential of 3
High efficiency

R290
GWP=3

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Cylinder Sanitary Hot Water

R290

BEXIE ENERGY R290 range of domestic hot water heat pumps are incredibly efficient , sustainable and with low emissions.

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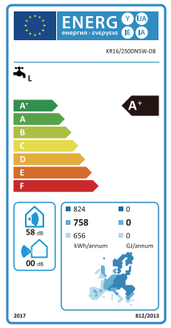
Environmental friendly

Natural and non-toxic, extend performance under cold climate and maximum 65°C water temperature.
The use of this refrigerant is compliant with the Montreal and Kyoto Protocols and also complies with F-Gas Regulation.

Natural refrigerant R290
OPD=0
GWP=3
Less gas charge
Excellent Thermodynamic
65°C water temperature at ECO mode

Energy efficient



Outstanding performance

ERP energy class A+.
Maximum COP 3.49
at average climate.

Excellent refrigeration module

Condenser and evaporator trimmed to achieve best heat transfer efficiency.

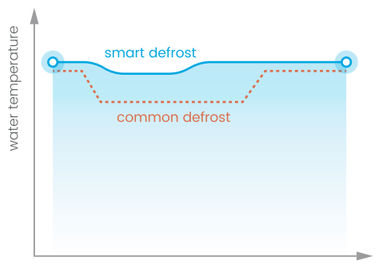
PV and smart grid

The heat pump is ready to take advantage of any free electricity from photovoltaic or heating as much as possible when grid is at off-peak status.

SG Ready
Smart Heat Pumps

Smart defrost

Vanward smart defrost cycle can efficiently remove frosting on evaporator in an energy saving way.



Comfort and healthy

01

Stable water temperature

Maximum water temperature up to 65°C on ECO mode
Maximum water temperature up to 75°C when E-heater is on.

02

Diverse operating modes

ECO Maximum efficient and cost saving
AUTO Maximum hot water delivery
ELEC Backup or boost heating
BOOST Maximum comfort.

03

Reliable hot water supply

An E-heater is equipped as backup in case the heat pump unit is under maintenance. When need hot water urgently a Boost heating cycle is also available to heat the water in short time.

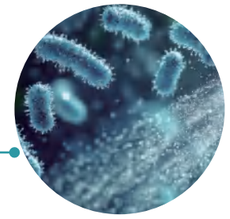
04

Silent operating

Advanced volute design to optimize air flow, together with enclosure insulation to the compressor to achieve minimum 49 dB(A) sound power level.

05

Legionella control



The legionella operating will cycle and heat water to 70°C every week to prevent the growth of bacteria in sanitary hot water.

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Durable

Industry leading component

Cutting edge hermetic design
R290 dedicated

Compact design
Low noise, low vibration

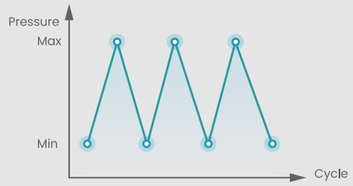
Sophisticated control
Multiple protections

Double Cathodic protection

Magnesium anode
Impressed current anode is optional

Durable enamel tank

Reliable carbon steel
Strict enamel coating quality control
160000 pressure cycles validation



Smart connectivity

APP control

Energy monitoring
Schedule
System status check
Set parameter
Service

Green energy connection

Compatible with photovoltaic
Compatible with smart grid

Installation

Floor Standing type

Garage or laundry room
(without duct)

Laundry room or kitchen
(with single duct)

Room without ventilation
(with two ducts)

Wall Hung type

Garage or laundry room
(without duct)

Laundry room or kitchen
(with single duct)

Room without ventilation
(with two ducts)

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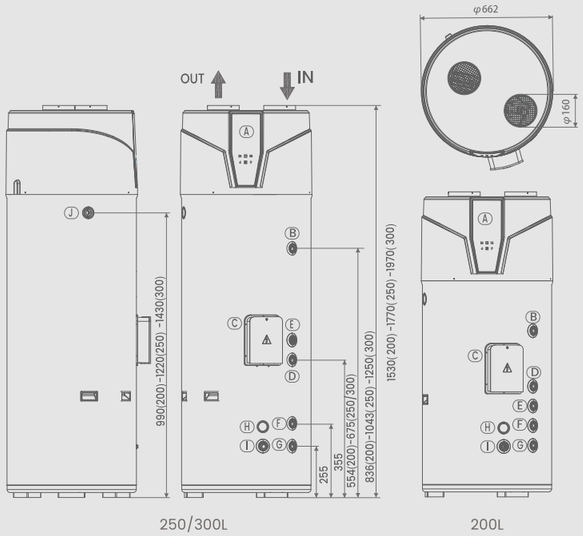
Dimensions



A HMI
B Hot water outlet - G 3/4" F
C E-heater box
D Solar thermal inlet - G 3/4" F
E Recirculation inlet- G 3/4" F
F Solar thermal outlet - G 3/4" F
G Cold water inlet - G 3/4" F
H Magnesium anode
I Tank drain - G 3/4" F
J Condensate drain - G 1/2" F

Components Layout

A TOP CAP
B ELECTRONIC EXPANSION VALVE
C RELIABLE COMPRESSOR
D EVAPORATOR
E ENAMEL INNER TANK
F MAGNESIUM ANODE
G ELECTRIC HEATER
H MICRO CHANNEL CONDENSER

BEXIE ENERGY

Enamel Inner Tank E Series

Floor-standing

All in One Heat Pump

BEXIE ENERGY E Series D8 specifications

Model	KR20/200DN5W-D8	KR20/250DN5W-D8	KR20/300DN5W-D8
Heat pump			
Rated power input(W)	505	505	505
Rated current(A)	2.20	2.20	2.20
Max input power (W)	860	860	860
Max input current (A)	3.74	3.74	3.74
Power supply (V/Hz)	220-240V~/50Hz	220-240V~/50Hz	220-240V~/50Hz
Load profile	L	L	XL
Energy efficiency class*	A+	A+	A+
COP_{DHW}*	3.24	3.27	3.49
Heating time(hours:mins)*	7:04	9:44	10:42
V40 ErP(L)*	251	325	383
AEC(kWh)*	761	753	1173
COP_{DHW}**	3.66	3.77	3.93
Heating time(hours:mins)**	6:05	7:35	9:13
V40 ErP(L)**	252	322	381
AEC(kWh)**	672	651	1041
Ambient temp.range(℃)	-7~43	-7~43	-7~43
Max water outlet Temp.(℃)	65	65	65
Refrigerant type and volume(g)	R290(150g)	R290(150g)	R290(150g)
Electric heater			
Rated power input(W)	1500	1500	1500
Rated current(A)	6.52	6.52	6.52
Ambient Temp.range(℃)	-15~43	-15~43	-15~43
Max water outlet Temp.(℃)	75	75	75
Water tank			
Storage volume(L)	200	250	300
Inner tank	Enameled water tank	Enameled water tank	Enameled water tank
Max tank pressure(Mpa)	1.0	1.0	1.0
Water inlet/outlet pipe(mm)	DN20	DN20	DN20
Drainage pipe(mm)	DN20	DN20	DN20
Magnesium rod joint(mm)	M33	M33	M33
Others			
Noise level(dB(A))	52	52	52
Water proof class	IPX1	IPX1	IPX1
Anti-shock class	I	I	I
Net size(mm)	φ662×1530	φ662×1770	φ662×1970
Packing size(mm)	725*725*1680	725*725*1920	725*725*2120
N.W(Kg)	100.0	111.0	136.0
G.W(Kg)	115.0	126.0	152.0
Loading per 20'GP/40'GP/40'HQ	21/48/48(pcs)	21/48/48(pcs)	21/48/48(pcs)

Note:
1.* Performance condition: ambient air7℃ DB/6℃ WB, incoming/final water temperature 10℃ /52℃.
2.** Performance condition:ambient air 14℃ DB/13℃ WB, incoming/final water temperature 10℃ /52℃.
3. Data subiect to change with our prior notice.
4. Actual loading quantities according to real packaging dimensions, only for reference.

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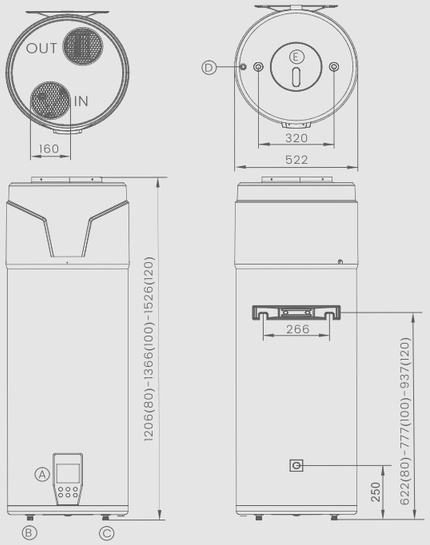
Dimensions



A HMI
B Hot water outlet - G 1/2" F
C Cold water inlet - G 1/2" F
D Condensate drain - G 1/2" F
E Maintenance cover
(E-heater, Magnesium anode)

Components Layout

A RELIABLE COMPRESSOR
B EVAPORATOR
C ELECTRONIC EXPANSION VALVE
D ENAMEL INNER TANK
E ELECTRIC HEATER
F MAGNESIUM ANODE
G MICRO CHANNEL CONDENSER

BEXIE ENERGY

Enamel Inner Tank E Series

Wall-mounted

All in One Heat Pump

BEXIE ENERGY E Series M4 specifications

Model	KR15/80DN5W-M4	KR15/100DN5W-M4	KR15/120DN5W-M4
Heat pump			
Rated power input(W)	200	200	200
Rated current(A)	1.0	1.0	1.0
Max input power (W)	350	350	350
Max input current (A)	1.7	1.7	1.7
Power supply (V/Hz)	220-240V~/50Hz	220-240V~/50Hz	220-240V~/50Hz
Load profile	M	M	M
Energy efficiency class*	A+	A+	A+
COP_{DHW}*	2.86	2.98	2.90
Heating time(hours:mins)*	4:26	5:46	7:19
V40 ErP(L)*	79	106	130
AEC(kWh)*	433	415	425
COP_{DHW}**	3.41	3.31	3.46
Heating time(hours:mins)**	3:35	4:46	5:55
V40 ErP(L)**	80	106	130
AEC(kWh)**	361	375	355
Ambient temp.range(℃)	-7-43	-7-43	-7-43
Max water outlet Temp.(℃)	65	65	65
Refrigerant type and volume(g)	R290(150g)	R290(150g)	R290(150g)
Electric heater			
Rated power input(W)	1500	1500	1500
Rated current(A)	6.52	6.52	6.52
Max water outlet Temp.(℃)	75	75	75
Water tank			
Storage volume(L)	80	100	120
Inner tank	Enameled water tank	Enameled water tank	Enameled water tank
Max tank pressure(Mpa)	0.8	0.8	0.8
Water inlet/outlet pipe(mm)	DN15	DN15	DN15
Drainage pipe(mm)	-	-	-
Magnesium rod joint(mm)	-	-	-
Others			
Noise level(dB(A))	49	50	50
Water proof class	IPX1	IPX1	IPX1
Anti-shock class	I	I	I
Net size(mm)	522*548*1206	522*548*1366	522*548*1526
Packing size(mm)	570*585*1347	570*585*1507	570*585*1667
N.W(Kg)	57	62	67
G.W(Kg)	71	78	85
Loading per 20'GP/40'GP/40'HQ	39/80/80(pcs)	39/80/80(pcs)	39/80/80(pcs)

Note:
1.* Performance condition: ambient air7℃ DB/6℃ WB,incoming/final water temperature 10℃ /50℃.
2.** Performance condition:ambient air 14℃ DB/13℃ WB,incoming/final water temperature 10℃ /50℃.
3. Data subiect to change with our prior notice.
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BEXIE ENERGY

316 Stainless Steel Tank S Series

Wall-mounted

All in One Heat Pump

White

Dark gray

Silver

BEXIE ENERGY S Series

Model	RS-GAD100L	RS-GAD150L
Rated Heating Capacity	900W	900W
Power Supply	220V~50Hz	220V~50Hz
COP (A20)	3.4	3.4
ERP (7°C)	A++	A++
Highest water temperature	75°C	75°C
Electric heater	1.5kW	1.5kW
Electric heater ampere	6.8A	6.8A
Operation condition	-7~ 35°C	-7~ 35°C
Refrigerant	R290	R290
Noise (dB)	46dB	46dB
Cover material	Steel (with powder coated)	
Heat exchanger	Micro-channel	
Tank material	SS316	SS316
Tank capacity	100L	150L
Water connection	M 3/4"	M 3/4"
Fan -air duct size	Φ125mm	Φ125mm
Water connection	M 3/4"	M 3/4"
Air flow	260m3/h	260m3/h
Dimension	Ø560*1450mm	Ø560*1480mm

Horizontal/Vertical design, space-saving

Outlet water temp up to 75°C

Intelligent & auto operation

R290 Eco refrigerant MODBUS communication

Stainless steel tank, long service life

Sterilization function, high pressure protection

External condenser coil, safe and reliable

CE ErP READY R290 ECO

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BEXIE ENERGY

316 Stainless Steel Tank S Series

Floor-standing

All in One Heat Pump

White | Dark gray | Silver | Stainless steel

BEXIE ENERGY S Series

Model	X7-200L-A	X7-300L-A
Input power (kw)	0.45	0.45
Current (A)	2.1	2.1
Voltage	220-240	220-240
Heating capacity (KW)	1.8	1.8
Highest water temperature	75°C	75°C
Refrigerant	R290	R290
Electric heater (KW)	2.0	2.0
Max current (A)	12.8	12.8
Max input power (kw)	2.8	2.8
Unit Size (mm)	Φ560×1750	Φ650×1920
Net weight (kg)	72	110
Noise (dB)	46	46

*Testing condition is 20 degrees and water inlet/outlet is 15 / 55 degrees.

- Horizontal/Vertical design, space-saving
- Outlet water temp up to 75°C
- Intelligent & auto operation
- R290 Eco refrigerant MODBUS communication
- Stainless steel tank, long service life
- Sterilization function, high pressure protection
- External condenser coil, safe and reliable

CE | ErP READY | R290 ECO

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