GPS
MONACO Group
Renewable Energy

Solar Water Heater Catalog

Model			
Tank	Inner Diameter	360	
	Outer Diameter	460	
	Insulation/Thickness	50	
	Inner Tank	Stainless steel 1.2mm	
	Outer Tank	Galvanized steel 0.41mm	
	Insulation/Density	36kgs/m2	
	Hole to hole Distance	80	
Frame	Type	7*7	
	Thickness	1.5mm thickness galvanized steel	
Collector	No.s of Tube	18	24
	Thickness of Tubes	Inner tube 1.6mm, outer tube 2.2mm	
	Absor area	2.52㎡	3.36㎡
	Output	150W	
	Tube	58/1800 Three Layers Coating	
	Heat Pipe	T2 Copper 17 ●φmm *0.7 mm	
Working Temperature	15℃-45℃		
Accessories	PT valve, Air Vent Valve, Check Valve, Vacuum Valve, Mag Bar Reserve electric heating and induction holes		

Integrative Pressurized Solar Water Heater

Item No	Solar Vacuum Tube		Tube Coating	Absorber Tank Capacity, Area(㎡)	Absorber Tank Capacity, Area(㎡)	Unit Quantity/sets
	pcs	size/mm				20GP/40GP/40HQ
	10	φ58 X 1800		1.36	100L	68/143/168
	12	φ58 X 1800		1.64	120L	58/121/141
	15	φ58 X 1800		2.044	150L	47/95/111
	18	φ58 X 1800	Cu-S/S-Al/N Heat Pipe	2.26	180L	42/81/92
	20	φ58 X 1800		2.72	200L	34/72/84
	24	φ58 X 1800		3.27	240L	31/65/77
	25	φ58 X 1800		3.41	250L	28/55/65
	30	φ58 X 1800		3.91	300L	26/58/68

*All models are available in stainless steel

Remark:

1. Diameter of the tank: 360/460mm 380/470mm
2. Insulation thickness: 50mm
3. Vent connection: 1/2"
4. Electric heater connection: 1"
5. Water connection: 3/4"
6. Installation angel: 15°/20°/30°/45°
7. Test Pressure: 1Mpa

CHARACTERISTICS

1. Working with high pressure
2. Use heat pipe vacuum tube for deliver heat energy. Shorten the time for heating water
3. Hot water coming out with pressure
4. No limitation for the installation position
5. Each tube work alone so it can work even if one of the tube is broken

MATERIAL

1. Inner tank: Imported stainless steel (SUS304/2B) 1.2mm thickness
2. Outer tank: Galvanized steel alloy, 0.5mm thickness
3. Bracker: Galvanized steel alloy, 1.5mm thickness
4. Heat insulation layer: Imported polyurethane(Bayer, Germany), 50mm thickness
5. Heat Pipe: high quality straight red copper pipe
6. Working temperature: 99 celsius degree
7. Working pressure: 0.6Mpa (6 bars)
8. Color: As per customer's request

Low Pressure Solar Water Heater

Item No.	Solar Vacuum Tube		Absorber Area(m2)	Tank Capacity	Loading Qty/sets
	pcs	size/mm			20GP/40GP/40HQ
	8	φ58 X 1800	0.64	80L	106/212/252
	10	φ58 X 1800	0.8	100L	89/178/210
	12	φ58 X 1800	0.96	120L	76/152/180
	15	φ58 X 1800	1.97	150L	43/86/100
	18	φ58 X 1800	2.36	180L	39/82/96
	20	φ58 X 1800	2.62	200L	34/72/84
	24	φ58 X 1800	3.15	240L	31/65/77
	30	φ58 X 1800	3.95	250L	22/50/58

Remark:

1. Diameter of the tank: 360/460mm
2. Insulation thickness: 50mm
3. Vent connection: 1/2"
4. Electric heater connection: optional
5. Water connection: 3/4"
6. Installation angel: 15°/20°/30°/45°

CHARACTERISTICS

1. It takes advantage of the tap water's pressure. More pressure more comfortable.

2. The water is heated in short time and meeting your demand for hot water.

3. It can produce more hot water than the general types with continuous hot water coming.

MATERIAL

1.Inner tank: 304-2B stainless steel (food grade), argon arc welding. thickness 1.0mm. 360mm diameter

2.Outer tank: Stainless steel, Thickness: 0.31mm diameter 460mm

3.Bracket: Round-type of stainless steel, angle: 20/38/45 degrees. Thickness: 0.5mm

4.Heat insulation layer: Imported polyurethane(Bayer, Germany), 50mm thickness

5.Accessory: Magnesium bar, logo printing on tanks / box, controller, electrical heater, air vent base

Non-Pressurized Solar Water Heater

[illegible]	Solar Vacuum Tube		Absorber Area(m2)	[illegible]	Loading Qty/sets
	pcs	size/mm			20GP/40GP/40HQ
	8	φ58 X 1800	0.64	80L	106/212/252
	10	φ58 X 1800	0.8	100L	89/178/210
	12	φ58 X 1800	0.96	120L	76/152/180
	15	φ58 X 1800	1.97	150L	43/86/100
	18	φ58 X 1800	2.36	180L	39/82/96
	20	φ58 X 1800	2.62	200L	34/72/84
	24	φ58 X 1800	3.15	240L	31/65/77
	30	φ58 X 1800	3.95	250L	22/50/58
	36	φ58 X 1800	4.75	300L	16/40/43

Remark:

1. Diameter of the tank: 360/460mm 380/470mm
2. Insulation thickness: 50mm
3. Vent connection: 3/4"
4. Electric heater connection: optional
5. Water connection: 3/4"
6. Installation angel: 15°/20°/30°/45°

CHARACTERISTICS

1. It takes advantage of the tap water's pressure. More pressure more comfortable.

2. The water is heated in short time and meeting your demand for hot water.

3. It can produce more hot water than the general types with continuous hot water coming.

MATERIAL

1.Inner tank: 304-2B stainless steel (food grade), argon arc welding. thickness 0.41mm. 360mm diameter

2.Outer tank: Stainless steel, Thickness: 0.31mm diameter 450/460mm

3.Bracket: U-type of stainless steel, angle: 20/38/45 degrees. 1.2mm

4.Heat insulation layer: Imported polyurethane(Bayer, Germany), 50mm thickness

5.Accessory: Magnesium bar, logo printing on tanks / box, feeding tank 5liter, controller, electrical heater, air vent base

Integrative Non-Pressurized Solar Water Heater

[illegible]	Solar Vacuum Tube		Absorber Area(m2)	[illegible]	Loading Qty/sets
	pcs	size/mm			20GP/40GP/40HQ
	8	φ58 X 1800	0.64	80L	106/212/252
	10	φ58 X 1800	0.8	100L	89/178/210
	12	φ58 X 1800	0.96	120L	76/152/180
	15	φ58 X 1800	1.97	150L	43/86/100
	18	φ58 X 1800	2.36	180L	39/82/96
	20	φ58 X 1800	2.62	200L	34/72/84
	24	φ58 X 1800	3.15	240L	31/65/77
	30	φ58 X 1800	3.95	300L	22/50/58
	36	φ58 X 1800	4.75	360L	16/40/43

*All models are available in stainless steel

Remark:
1. Diameter of the tank: 360/460mm
2. Insulation thickness: 50mm
3. Vent connection: 3/4"
4. Electric heater connection: optional
5. Cold water inlet: 3/4"
6. Hot water outlet: 3/4"
7. Installation angel: 15°/20°/30°/45°
8. **Top side feeding tank**
9. **Side feeding tank**

CHARACTERISTICS

1. It takes advantage of the tap water's pressure.
More pressure more comfortable.

2. The water is heated in short time and meeting your demand for hot water.

3. It can produce more hot water than the general types with continuous hot water coming.

MATERIAL

1. Inner tank: 304-2B stainless steel (food grade),thickness 0.4mm

2. Outer tank: PVDF Coated Galvanized steel alloy, 0.5mm thickness

3. Bracket: Galvanized steel, 1.5mm thickness

4. Heat insulation layer: Imported polyurethane(Bayer, Germany), 50mm thickness

5. Working temperature: 99 celsius degree

6. Working pressure: 0.005Mpa(0.05 bars)

7. Accessory: Optional assistant tank and electrical heater

Pre-heated Solar Water Heater

Item No.	Solar Vacuum Tube		Tube Coating	Absorber Area(m2)	Tank Capacity	Loading Qty/sets
	pcs	size/mm				20GP/40GP/40HQ
	10	φ58 X 1800		1.36	100L	78/144/172
	12	φ58 X 1800		1.64	120L	65/124/143
	15	φ58 X 1800		2.044	150L	50/101/119
	18	φ58 X 1800	Cu-S/S-AL/N	2.26	180L	41/94/104
	20	φ58 X 1800		2.72	200L	34/72/84
	24	φ58 X 1800		3.27	240L	31/65/77
	30	φ58 X 1800		3.41	300L	22/50/58
	36	φ58 X 1800		3.91	360L	16/40/43

*All models are available in stainless steel

Remark:
1. Diameter of the tank: 360/460mm
2. Insulation thickness: 50mm
3. Coil connection: 3/4"
4. Electric heater connection: 1"
5. Cold water inlet: 3/4"
6. Installation angel: 15°/20°/30°/45°

CHARACTERISTICS

1. Instant heat exchange to provide plentiful warm water

2. Fresh and high water quality

3. Working with pressure

4. Output water temperature is stable, so it is very comfortable and safe to use

5. Hot&cold water flow is separated

6. Copper coil is tested and does not break

7. Works intelligently and easy and is very reliable

8. Perfect performance

MATERIAL

1. Inner tank: 304-2B stainless steel (food grade),thickness 0.4mm

2. Outer tank: Galvanized steel alloy, 0.4mm thickness

3. Bracket: Galvanized steel alloy, 1.5mm thickness

4. Heat insulation layer: Imported polyurethane(Bayer, Germany), 50mm thickness

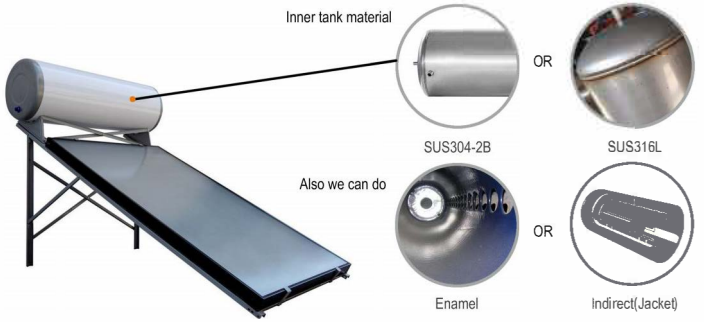
5. Working temperature: 99 celsius degree

6. Working pressure: Copper coil: above 0.6Mpa(6 bars), tank: 0.005Mpa(0.05 bars)

7. Copper coil: 12mm, 0.8mm thickness

Flat Panel Solar Water Heater

Item No.	Flat Panel Collector		Absorber Area(m2)	Tank Capacity	Loading Qty/sets
	pcs	m2			20GP/40GP/40HQ
	1	2	1.98	100L	52/82/102
	1	2	1.98	150L	40/75/99
	2	4	3.96	200L	38/70/91
	2	4	3.96	250L	32/65/86
	2	4	3.96	300L	27/56/66
	3	6	5.94	400L	22/46/58



CHARACTERISTICS

1. Pressurized hot water flows out.

2. Easy installation on the flat roof and sloping roof.

3. Perfect design combined with building.

4. Thermosyphon System: circulation without the need for additional pumps.

MATERIAL

1. Inner tank: SUS304-2B stainless steel, thickness: 1.2mm

2. Outer tank: Galvanized steel, thickness 0.4mm

3. Insulation Layer: 50mm to 60mm

4. Bracket: Galvanized steel, thickness: 1.5mm

5. Working pressure: 0.5Mpa - 0.7Mpa

6. Absorber: Black coating or blue titanium. Standard 2000*1000*80mm

Split Pressurized Solar Water Heater

Model No.	Solar Vacuum Tube		Aperture Area(m2)	Tank Capacity	Loading Qty / sets
	pcs	size/mm			20GP/40GP/40HQ
	15	φ58 X 1800	1.44	150L	35/70/77
	20	φ58 X 1800	1.92	150L	30/60/74
	20	φ58 X 1800	1.92	200L	28/58/68
	25	φ58 X 1800	2.40	200L	26/53/62
	25	φ58 X 1800	2.40	250L	24/46/60
	30	φ58 X 1800	2.88	250L	22/43/54
	30	φ58 X 1800	2.88	300L	20/40/48
	40	φ58 X 1800	3.84	300L	17/35/44
	60	φ58 X 1800	5.76	400L	14/27/33
	80	φ58 X 1800	7.68	500L	13/26/32
	25	φ58 X 1800	2.40	200L	26/58/68
	25	φ58 X 1800	2.40	200L	26/53/62
	25	φ58 X 1800	2.40	250L	24/46/60
	30	φ58 X 1800	2.88	250L	22/43/54
	30	φ58 X 1800	2.88	300L	20/40/48
	40	φ58 X 1800	3.84	300L	17/35/44
	40	φ58 X 1800	3.84	400L	16/32/37
	50	φ58 X 1800	4.80	400L	15/29/34
	60	φ58 X 1800	5.76	400L	14/28/32
	60	φ58 X 1800	5.76	500L	13/26/31
	79	φ58 X 1800	7.59	700L	11/22/26

Remark:

1. S=Single coil tank system,D=Double coil tank
2. Manifold connection:22mm
3. Test Pressure(Pa):1Mpa
4. Max. service temperature(degree):95°
5. Max. stagnation Temperature(degree):200.3°
6. Flow range recommendation(50- 150L/m2h)
7. Min. collector angle(degree):15
8. Max. collector angle (degree):75°

CHARACTERISTICS

1. Module design, arbitrary combination, harmony with the building perfectly

2. Intelligent control and automatic operation

3. Anti-freeze: Using the anti-freezing liquid as the medium and the controller has the anti-freezing function

4. Work at anytime with excellent performance

MATERIAL

1. Inner Tank: SUS3042B,2.0mm -2.5mm thickness

2. Outer Tank: Galvanized steel alloy.0.5mm thickness

3. Tank Heat Insulation Layer: Rock Wool,50mm thickness

4. Bracket: Aluminum Alloy, 1.8mm thickness

5. Working station: Wilo circulation pump or Grundfos circulation pump, Flowing meter, Pressure gauge,Expansion vessel,controller

6. Working Temperature: 99 Celsius Degree

7. Working Pressure: 1.0Mpa (10 bars)

U pipe solar collector

Item No.	Solar Vacuum Tube			Aperture Area(m2)	Daily Output (50-90℃)	Loading Qty/ sets
	pcs	size / mm	coating			20GP/40GP/40HQ
	10	φ58 X1800	Cu-S/S—AL-N Heat Pipe	0.96	80-100L	130/286/303
	15	φ58 X1800		1.44	120-150L	115/253/285
	20	φ58 X1800		1.92	160-200L	87/193/217
	25	φ58 X1800		2.40	200-250L	70/157/175
	30	φ58 X1800		2.88	240-300L	57/126/141

Specifications:

1. U pipe vacuum tube solar collector
2. Vacuum tube material: Borosilicate glass 3.3
3. U pipe: Red copper
4. Manifold casing material: Aluminum alloy
5. Insulation layer: Rock wool
6. Frame material:Aluminium alloy
7. Heat transferfin material: United aluminium sheet

CHARACTERISTICS

1.The evacuated tubes which are slid onto a U-shaped heat transfer unit absorbs the sun energy and transform it into heat. As a result the liquid gets heated. When the required temperature is reached, the pump in the solar circuit is activated by the controller and transports the heat to the hot water storage tank or the heating system.

2.Suitable for mains pressure water.

3. Since there is no water in the tubes themselves, the tubes will not break in winter.

4.System is reliable and efficient.

5.The collector is mountable on sloped or flat roofs or on a facade. The installation is the most flexible since it can work well in any installation angle.

6.It can be combined with an existing pipeline.

Heat pipe solar collector

Item No.	Solar Vacuum Tube			Aperture Area(m2)	Daily Output (50-90℃)	Loading Qty/ sets
	pcs	size / mm	coating			20GP/40GP/40HQ
	12	φ58 X1800	Cu-S/S—AL-N Heat Pipe	0.96	100-120L	130/253/285
	15	φ58 X1800		1.2	120-150L	115/210/240
	18	φ58 X1800		1.44	150-175L	78/185/201
	20	φ58 X1800		1.6	160-200L	75/170/189
	24	φ58 X1800		1.92	200-250L	70/157/175
	30	φ58 X1800		2.4	240-280L	57/127/141

Specifications:

1. Heat pipe vacuum tube solar collector
2. Vacuum tube material: Borosilicate glass 3.3
3. Manifold pipe material: Red copper
4. Manifold casing material: Aluminum alloy
5. Insulation: High-density rockwool
6. Frame material:Aluminium alloy
7. Heat transferfin material: Aluminium sheet
8. Working pressure: 6 bars

ADVANTAGES:

1. High Efficiency: The vacuum minimizes heat loss, while the heat pipe efficiently transfers heat from the absorber to the heat transfer fluid.

2. Improved Performance in Cold Weather: Solar vacuum tubes with heat pipes can operate efficiently even in cold weather (-50°C) conditions.

3. Reliability: Heat pipes have no moving parts and are sealed, making them highly reliable with minimal maintenance requirements.

4. Quick Start-Up: Solar vacuum tubes with heat pipes can quickly start collecting solar energy as soon as sunlight is available.

5. No water inside vacuum tube, the whole collectar can still work if a tube damaged.

Project Solar Collector

Item No	Solar Vacuum Tube				[illegible]	[illegible]	Loading Qty/ sets
	pcs	[illegible]	size / mm	[illegible]	[illegible]	[illegible]	20GP/40GP/40HQ
[illegible]	20	vertical	φ58 X1800	Aluminium Nitride	1.87	150-200L	90/195/220
[illegible]	25	vertical	φ58 X1800		2.35	200-250L	72/160/177
[illegible]	30	vertical	φ58 X1800		2.35	250-300L	59/128/143
[illegible]	40	horizontal	φ58 X1800		3.78	350-400L	82/170/200
[illegible]	50	horizontal	φ58 X1800		4.73	450-500L	66/138/161

CHARACTERISTICS

1.Applicable to solar hot water supply/swimming pool heating/house heating

2.Operates automatically, telecommuting controlling

3.All-day/time-lapse mode

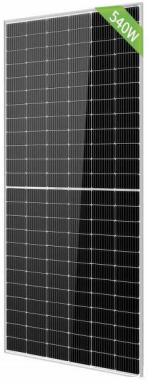
4.The design allows for versatile architectonic integration

5.Any type of back up heating can be combined

MATERIAL

1. Outer Chest: Galvanized steel
2. Inner tank & Outer tank:0.4mm thickness
3. Bracket: Galvanized steel,1.5mm thickness
4. Heat insulation layer: Imported polyurethane (Bayer Germany),40mm thickness
5. Working temperature: 99 celsius degree
6. Working pressure:0.005Mpa (0.5 bars)
7. Color: Shinning White
8. Accessory: Plastic bottom support, silica gasket

PVT Integrated Electricity Hot Water Panel



Maximum Power Output: 540W

Maximum Module Efficiency: 20.4%

Power Output Guarantee: 0~+5W

Ideal choice for large-scale ground installation

PID

Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free

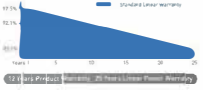
Special [illegible] and solder ing technology leads to low hotspot risk

Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Optimized system performance due to module level current sorting

Highly [illegible] self-cleaning glass brings additional yield and easy maintenance

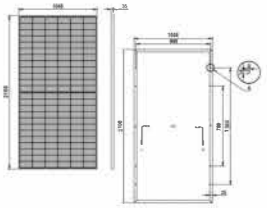
Linear Performance Warranty



Uniepu New Energy

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: IS09001:2015IS014001:2015 and OHSAS: 18001 2007
- Tested for harsh environments (salt mist, ammonia corrosion and sand-blowing test:IEC 61701,IEC 62716,DIN EN 60068-2- 68)
- Long term reliability tests
- 2x100% ELinspection ensuring defect-free modules

Engineering drawings



Mechanical characterisrtics

No. of Cells	144 Cells (6x24)
Dimensions	2108x1048x 35mm
Weight	28.6kg
Front Glass	High transparency solar glass 3.2mm (0.13 inches)
Frame	Silver, anodized aluminium alloy
Junction box	IP68 Rated
Output cables	4.0mm²(0.006inches²) Portrait:300(1181 inches)
MaxWind Load/Snow Load	2400Pa/5400Pa
Connector	MC Compatible

Quantity for container loadig

40HQ container	600 pcs
Number of packages per pallet	30 pcs/pallet

Specifications

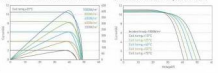
* STC: Irradiance 1000 W/m2, AM 1.5,Cand cell temperature of 25°C	
Model T ype	
Peak Power(Pmax)	540.00
Rated voltage (Vmpp)	41.40
Rated current (Impp)	13.63
Open Circuit Voltage(Voc)	49.25
Short Circuit Current(Isc)	13.14
Cells Efficiency(η)	19.90
Module Efficiency(η)	20.4%
* NOCT: Irradiance 800 W/m2, AM 1.5G, ambient temperature20°C, wind speed 1 m/s	
Peak Power(Pmax)	397.25
Rated voltage (Vmpp)	38.50
Rated current (Impp)	8.50
Open Circuit Voltage(Voc)	45.70
Short Circuit Current(Isc)	9.01
Inlet and Outlet	DN 15
Water pressure	0.6mpa
Water flow	0.4L/S

PVT certification

CE ISO

Temperature characteristics

NOCT Nominal Operating Cell Temperature(℃)	44±2
Voltage temperature coefficient (μVoc)	-0.30% / ℃
Current temperature coefficient (μIsc)	+0.06% / ℃
Power temperature coefficient (μPmpp)	-0.39% / ℃



PVT operating conditions

Maximum System Voltage(V)	1500
Maximum Series Fuse Rating(A)	20
Power Tolerance	0~+3W
Operating and Storage Temperature(℃)	-40 ~ +85

Introduction of the Accessories

The accessories are very important in the whole solar water heater system.All of them are manufactured in our company or Purchased from one of the top three suppliers in China.

CIRCULATION PUMP

RELIEF VALVE

ELECTRIC HEATER

COMPUTERIZED CONTROLLER

T/P RELIEF VALVE

STAINLESS STEEL FLEXIBLE TUBE

MAGNESIUM ROD

EXPANSION VESSL

FILLING PUMP

MIXER VALVE

MIXER VALVE

PPR PIPE

SOLAR WORKING STATION

Main Function:
Making timing process easy and reliable, more convenient, safer and more utility.

Technical Parameters
1. Ful Power of recycle pump: AC 110V/220V, 93W
2.Temperature and pressure gauge: 1.0Mpa, 120°C
3 Pressure relief valve: 0.8Mpa
4. Flowmeter: 2-8L/min
5. Connector: 1/2 inch

Cmponents:
Temperature and pressure gauge
fiowmeter
WILO/Grundfos pump
Safety valve
Controler

FLAT PLATE HEAT EXCHAGER

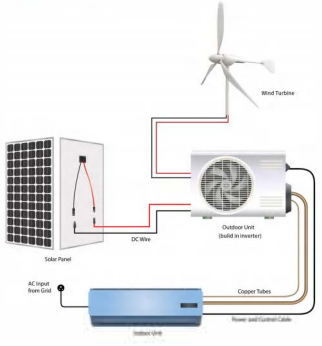
This is an extremely popular unit for wood burning furnaces, radiant floor systems, refrigerant systems straight vegetable oil conversions, beer chilling, air conditioning system and solar water heating systems. It will work for any application in which the desired result is for two fluids (liquid or gas) to exchange heat.

ACDC Hybrid Solar Air Conditioner

CE CB | R32 | INVERTER | A+++ | WIFI

Features:

- AC and DC dual power supply.
- Full DC control scheme, with the highest energy efficiency reaching SEER36 (about SEER17 for traditional inverter air conditioners).
- With MPPT and solar power supply control system, the energy efficiency is up to 95%.
- Hybrid Power with the priority of Solar energy. mains power as supplement, to achieve uninterrupted power supply.
- Wide voltage range design, free combination of solar panels without site limitation.
- Adapt to various climatic conditions.



Parameters

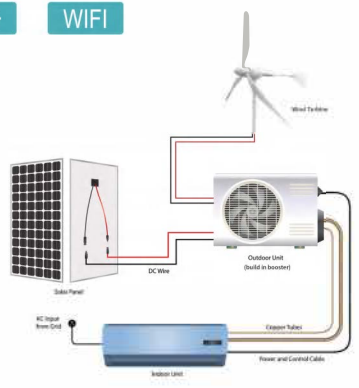
Model		Unit					
Power Supply		V	DC50-380V	DC50-380V	DC50-380V	DC50-380V	DC50-380V
		PH-V-HZ	1Ph, 220~, 50/60Hz	1Ph, 220~, 50/60Hz	1Ph, 220~, 50/60Hz	1Ph, 220~, 50/60Hz	1Ph, 220~, 50/60Hz
Cooling	Capacity	Btu/h	9000 (500-11000)	12000 (7000-14000)	18000 (6200-19500)	24000 (5100-26900)	36000 (6500-37500)
	Power Input	W	590(100-1200)	865(110-1500)	1320(140-1800)	1980(240-3030)	2850(320-3510)
	Current	A	2.68(0.45-5.45)	3.93(0.5-6.82)	6(0.6-8.18)	9(1.0-13.2)	12.95(1.45-15.95)
Heating	Capacity	Btu/h	9500(3800-11500)	13000(4000-15000)	19000(4700-20000)	25000(5500-30000)	37500(7000-39000)
	Power Input	W	625(120-1200)	880(130-1510)	1465(200-1900)	2050(260-3140)	3000(350-3650)
	Current	A	2.84(0.5-5.45)	4(0.59-6.86)	6.66(0.9-8.63)	9.32(1.1-13.7)	13.63(1.59-16.59)
Moisture Removal		L/h	1.0	1.3	1.7	2.5	3.6
Max input		W	1320	1500	2300	3200	3800
Max current		A	6	7.50	10.45	14.54	14.54
Indoor air flow(H/M/L)		m3/h	570/470/370	570/470/370	721/566/458	970/780/590	1150/900/700
Indoor noise(H/M/L)		dB(A)	41/36/28	41/36/28	43/37/32	45/39/34	46/40/35
Indoor unit	Net Size(W*D*H)	mm	734*194*285	775*194*285	921*213*302	1026*220*327	1060*220*327
	Pack Size(W*D*H)	mm	780*270*360	830*270*360	995*305*380	1105*310*405	1155*310*405
	Net/Gross	kg	8.1/9.9	8.1/9.9	9.5/12.5	11.9/15.2	13.7/17.2
Outdoor air flow		m3/h	2100	2100	2100	2900	3800
Outdoor noise		dB(A)	< 50	< 50	< 52	≤56	≤64
Outdoor unit	Net Size(W*D*H)	mm	835*320*540	835*320*540	835*320*540	910*340*700	946*410*810
	Pack Size(W*D*H)	mm	900*400*600	900*400*600	900*400*600	1063*457*780	1090*500*860
	Net/Gross	kg	28.9/33.4	29/33.5	31/36	49.5/56	65/73
Operation temp.		℃	16~30	16~30	16~30	16~30	16~30
Ambient temp.(cooling/heating)		℃	18-52/-15-34	18-52/-15-34	18-52/-15-34	18-52/-15-34	18-52/-15-34
Application area		m2	12-18	16-23	24-35	32-47	47-63
Solar panels recommendation		W	700-1290	1030-1900	1580-2900	2370-4350	3400-6270

Pure Solar Drive Solar Air Conditioner

R32 | INVERTER | A+++ | WIFI

Features:

- 100% solar energy driven, Air conditioning without AC power of mains.
- When Solar power generation is not sufficient for full frequency operation of the air conditioner, the compressor frequency will be automatically adjusted to keep working.
- Free electric charge (off-grid).
- Built-in MPPT to track the maximum photovoltaic power.



Parameters

Power Supply		V	DC120-380V	DC120-380V	DC120-380V	
Cooling	Capacity	Btu/h	9000 (500-11000)	12000 (7000-14000)	18000 (6200-19500)	24000 (5100-26900)
	Power Input	W	590(100-1200)	865(110-1500)	1320(140-1800)	1980(240-3030)
	Current	A	2.68(0.45-5.45)	3.93(0.5-6.82)	6(0.6-8.18)	9(1.0-13.2)
Heating	Capacity	Btu/h	9500(3800-11500)	13000(4000-15000)	19000(4700-20000)	25000(5500-30000)
	Power Input	W	625(120-1200)	880(130-1510)	1465(200-1900)	2050(260-3140)
	Current	A	2.84(0.5-5.45)	4(0.59-6.86)	6.66(0.9-8.63)	9.32(1.1-13.7)
Moisture Removal		L/h	1.0	1.3	1.7	2.5
Max input		W	1320	1500	2300	3200
Max current		A	6	7.50	10.45	14.54
Indoor air flow(H/M/L)		m3/h	570/470/370	570/470/370	721/566/458	970/780/590
Indoor noise(H/M/L)		dB(A)	41/36/28	41/36/28	43/37/32	45/39/34
Indoor unit	Net Size(W*D*H)	mm	734*194*285	775*194*285	921*213*302	1026*220*327
	Pack Size(W*D*H)	mm	780*270*360	830*270*360	995*305*380	1105*310*405
	Net/Gross	kg	8.1/9.9	8.1/9.9	9.5/12.5	11.9/15.2
Outdoor air flow		m3/h	2100	2100	2100	2900
Outdoor noise		dB(A)	< 50	< 50	< 52	≤56
Outdoor unit	Net Size(W*D*H)	mm	835*320*540	835*320*540	835*320*540	910*340*700
	Pack Size(W*D*H)	mm	900*400*600	900*400*600	900*400*600	1063*457*780
	Net/Gross	kg	28.9/33.4	29/33.5	31/36	49.5/56
Operation temp.		℃	16~30	16~30	16~30	16~30
Ambient temp.(cooling/heating)		℃	18-52/-15-34	18-52/-15-34	18-52/-15-34	18-52/-15-34
Application area		m2	12-18	16-23	24-35	32-47
Solar panels recommendation		W	700-1290	1030-1900	1580-2900	2370-4350

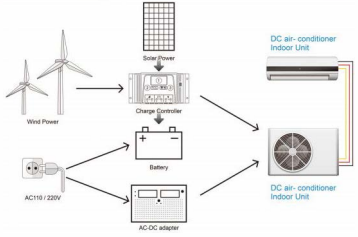
Off-Grid(DC24/48V) Solar Air Conditioner

R32 INVERTER A+++ WIFI

Features:

- DC24V/48V compressor, Indoor motor, Outdoor motor are high efficiency full DC motors without conversion process.
- Easy installation as traditional air conditioners.
- Not affected by power supply and climate, and can be used in all climatic conditions.
- DC low-voltage safe operation, safe and reliable.

How to supply power for DC Air-Conditioner



Parameters

Model		Unit			
Power Supply		V	DC21-29V	DC42-60V	DC42-60V
Cooling	Capacity	Btu/ h	9000	12000	18000
	Power Input	W	570	750	900
	Current	A	16	19	22
Compressor		/	DC24V	DC48V	DC48V
EER		W/W	4.56	4.67	4.78
		Btu/h/w	15.79	16.00	20.00
SEER		Btu/h/w	23.6	24.3	25.2
Indoor air flow(H/M/L)		m3/h	450	450	550
Indoor noise(H/M/L)		dB(A)	≤40	≤42	≤43
Indoor unit	Net Size(W*D*H)	mm	775*260*210	775*260*210	990*320*210
	Pack Size(W*D*H)	mm	840*325*265	840*325*265	1070*395*285
	Net/Gross	kg	7/9	8/10	13/15
Outdoor noise		dB(A)	≤50	≤52	≤54
Outdoor unit	Net Size(W*D*H)	mm	790*260*540	790*260*540	850*290*580
	Pack Size(W*D*H)	mm	910*370*610	910*370*610	995*390*665
	Net/Gross	kg	25/28	28/31	35/38
Operation temp.		°C	16~30	16~30	16~30
Ambient temp.(cooling/heating)		°C	-15~60	-15~60	-15~60
Application area		m2	12-18	16-23	24-35
Solar panels recommendation		W	680-1250	900-1650	1080-1980

AIR SOURCE HEAT PUMP

ISO 9001 CE

Hybrid Heat Pump Water Heater

- Circulation water pump built-in
- Wifi function for option(Control by Appson mobile phone)
- High efficiency shell & tube heat exchanger: Adopt high efficiency internal thread copper coil, which heating area is 3.6 times than ordinary smooth coil, larger diameter water loop design to make water flow smoothly, energy efficiency is superior
- Stainless steel 304 material for side cover of finned tube heat exchanger, for all fastener and other important parts, not easy to rust and corrosion, more durable
- GMCC: High quality GMCC rotor compressor, widely used in the field of air conditioners and heat pump water heaters, high quality, long service life and convenient maintenance
- High precision electronic expansion valve: use electronic expansion valve for controlling, reach 500 steps adjustment, adjust super heat degrees accurately, achieve high efficiency operation system.
- Controller: Adopt famous master chip, ensure stable running; With lot of protection functions: High & low pressure protection, anti-freezing protection, high temperature protection, overload protection, lack phase and reverse phase protection, and so on;
- The blue hydrophilic aluminum foil fin heat exchanger adopts cross-type multi-flow path design to make the heat exchange more uniform; the internal thread copper tube design has higher heat transfer efficiency; at the same time, the hydrophilic fin is not easy to form water droplets, Spreading into a uniform water film completely on the surface of fins, eliminates the generation of water bridges, which greatly improves the heat exchange capacity and heat exchange efficiency between the aluminum foil and the flowing air.
- R410A: Low ODP refrigerant: R410a

AC INVERTER R410A Wi Fi

Application

Technical Data

Photos	
Power Supply	220~240V/1/50Hz
Heating Capcity at Air 20℃/15℃, Water Temperature from 15℃to 55℃	
Heating Capacity (kW)	3.6
Power Input (kW)	0.86
COP	4.18
Max Power Input (kW)	1.45
Max Current(A)	6.5
Rated Hot Water(L/h)	80
Refrigerant	R410A
Expansion Valve	Electronic
Air Flow Direction	Horizontal
Water Pump inside	Yes
Water Pressure Drop (kPa)	35
Net Dimensions(L*W*H)(mm)	936*385*550
Package Dimensions(L*W*H)(mm)	1030*445*592
Working temperature range (℃)	-15~43
Noise (dB(A))	47
Net Weight (kg)	50
Water connection(mm)	20

2 in 1 System

hybrid heat pump water heater is an new generation of water heater. It moves heat from the air into the water tank , and gives you hot water in Winter , cool water in Summer.

Monoblock DC Inverter Heat Pump

Ourairto water heat pump has been assessed by the manufacturer and deemed to meet EU safety, health and environmental protectionre-quirements.

Less atten uation in low-temperature technology etc. Ensure the unitsoper-ating well with a wide range between -25 ~ 43 degrees condition

Low GWP (675) and zeroozone-depleting poten-tial (ODP). Offers higher efficiency and longer pipe runs. Requiresless refrigeran t volume per kW.

Control your home heat pump anytime, any-where. Turn it on in advance, then enjoy comfort-able temperature and hotwateras soonas you back home.

DC Inverter Air to Water Heat Pump (Monoblock R32)

Model						
Rated voltage/Frequency		V/Hz	230/50	400V/3N~50Hz	230/50	400V/3N~50Hz
Heating Capacity Range		kW	(4.20-12.20)	(4.20-12.20)	(6.20-19.80)	(6.20-19.80)
Heating(A7/6°C,W30/35°C)	Heating Capacity	kW	10.66	10.58	18.77	18.77
	Power Input	kW	2.29	2.25	4.16	4.16
	COP	W/W	4.62	4.62	4.51	4.51
Heating(A-12°C,W36/41°C)	Heating Capacity	kW	7.21	7.21	12.86	12.86
	Power Input	kW	2.79	2.79	5.14	5.14
	COP	W/W	2.58	2.58	2.50	2.50
Heating(A7/6°C,W40/45°C)	Heating Capacity	kW	10.37	10.37	18.60	18.56
	Power Input	kW	2.60	2.60	4.95	4.95
	COP	W/W	3.86	3.86	3.76	3.76
Heating(A7/6°C,W47/55°C)	Heating Capacity	kW	9.26	9.26	16.47	16.47
	Power Input	kW	2.97	2.97	5.98	5.98
	COP	W/W	3.12	3.12	3.09	3.09
Cooling(A35/24°C,W23/18°C)	Cooling Capacity	kW	10.27	10.27	18.58	18.58
	Power Input	kW	2.63	2.63	4.47	4.47
	EER	W/W	4.23	4.23	4.08	4.09
Cooling(A35/24°C,W12/7°C)	Cooling Capacity	kW	8.54	8.54	15.88	15.88
	Power Input	kW	2.56	2.56	5.36	5.36
	EER	W/W	3.00	3.00	2.96	2.96
ERP Level (35°C)		/	A+++	A+++	A+++	A+++
ERP Level (55°C)		/	A++	A++	A++	A++
Rated water flow		m3/h	1.75	1.75	3.20	3.20
Maximum power		kW	3.82	3.82	7.50	7.50
Maximum		A	17.00	8.50	33.00	13.00
High pressure value cut-off pressure		MPa	4.4	4.4	4.4	4.4
Low pressure value cut-off pressure		MPa	1.5	1.5	1.5	1.5
Brand /Type of Compressor		/	Panasonic/Rotary			
Compressor Model		/	9RD220ZDA23	9RD220ZDA23	9KD420ZAA23	9KD420ZAA23
Brand of 4WV/4VI		/	DPF1.65C-05/DPF-1.6	DPF1.65C-05/DPF-1.6	DPF-2.0c/DPF-1.3c	DPF-2.0c/DPF-1.3c
Brand of 4-way		/	dunan/DSF-8	dunan/DSF-8B	dunan/DSF-20	dunan/DSF-20
Brand of Pressure		/	SANHUA			
Compressor oil type		/	FW68S	FW68S	FW52S	FW52S
Compressor Oil		cm3	500	500	1300	1300
Refrigerant		/	R32			
Refrigerant		Kg	1.8	1.8	3.6	3.6
Fan	Air flow	m3/h	4500	4500	8500	8500
	Brand of Fan motor (DC fan)		LT RD85HA	LT RD86HA	LT RD85HA	LT RD85HA
Defrost		/	Auto defrost with 4 way valve			
Waterproof grade		/	IPX4			
Noise pressure		dB(A)	52	52	58	58
Max water outlet temperature		°C	60	60	60	60
Diameter of water connection		/	DN 25 (1")	DN 25 (1")	DN 40 (1.5")	DN 40 (1.5")
Drainage valve		mm	15			
Internal pressure drop at rating water flow		kPa	27	27	32	32
Min/Max heating water pressure (Safty Valve 3Bar)		bar	1.0/3.0	1.0/3.0	1.0/3.0	1.0/3.0
Fuse (PCB)		A	10	10	10	10
Lowest Operational point, outdoor air/flow tue (heating) mode		°C	-25			
Highest Operational point, outdoor air/flow line (heating)		°C	46			
Lowest Operational point, outdoor air/flow line (cooling mode		°C	18			
Highest Operational point, outdoor air/flow line (cooling		°C	46			
Cabinet Color			Light Black	Light Black	Light Black	Light Black
Net Dimensions (L×D×H)		mm	1120×445×850	1190×445×850	1130×445×1450	1130×445×1450
Package Dimensions (L×D×H)		mm	1150×500×1000	1150×500×1000	1150×500×1800	1150×500×1600
Net Weight		kg	107	107	155	155
Gross Weight		kg	119	119	175	175

Monoblock DC Inverter Heat Pump

DC Inverter Air to Water Heat Pump(MonoBlock)

Model							
Power Supply		V/Hz	220~240V/ 50Hz	220~240V/ 50Hz	380~415V/ 3N~/50Hz	220~240V/ 50Hz	380~415V/ 3N~/50Hz
Heating ¹	Capacity	kW	2.92~9.10	4.30~15.2	4.30~15.2	7.24~21.90	7.24~21.90
	Input Pawer	kW	0.61~2.11	0.87~3.73	0.87~3.73	1.50~5.88	1.50~5.88
	Input Current	A	2.80~8.35	4.02~16.38	1.76~6.04	6.86~30.25	2.82~9.16
Heating ²	Capacity	kW	2.99~8.16	4.25~14.55	4.25~14.55	6.36~19.45	6.36~19.45
	Input Power	kW	1.02~2.92	1.45~4.26	1.45~4.26	2.15~6.85	2.15~6.85
	Input Current	A	4.57~12.79	6.71~18.80	2.64~6.78	9.84~30.12	3.71~10.60
Cooling	Capacity	kW	1.38~5.70	3.65~11.04	3.65~11.04	4.55~17.20	4.55~17.20
	Input Power	kW	0.67~2.64	1.12~3.97	1.12~3.97	1.85~7.31	1.85~7.31
	Input Current	A	3.06~10.27	5.19~17.44	1.97~6.30	8.47~32.1	2.99~11.26
ERP Level (35°C)		/	A+++	A+++	A+++	A+++	A+++
ERP Level (55°C)		/	A+++	A+++	A+++	A+++	A+++
SCOP (Water Temp. At 35°C)		kWh / kWh	4.87	4.85	4.9	4.83	4.84
SCOP (Water Temp. At 55°C)		kWh / kWh	3.85	3.84	3.84	3.84	3.85
Rated Input Power		kW	3.50	5.40	5.85	7.50	10.50
Rated Input Current		A	15.0	25.0	10.0	35.0	17.0
Refrigerant Type/Charge/GWP		- / kg	R290/0.55/3	R290/0.90/3	R290/0.90/3	R290/1.4/3	R290/1.4/3
CO_2 Equivalent		/	0.0011t	0.0027t	0.0027t	0.0042t	0.0042t
Operation Pressure(Low Side)		MPa	0.8	0.8	0.8	0.8	0.8
Operation Pressure(High Side)		MPa	3.0	3.0	3.0	3.0	3.0
Maximum Allowable Pressure		MPa	3.0	3.0	3.0	3.0	3.0
Electrical Shockproof		/	I	I	I	I	I
IP Class		/	IPX4	IPX4	IPX4	IPX4	IPX4
Max. Outlet Water Temp.		°C	75	75	75	75	75
Operating Ambient Temperature		°C	-25~45	-25~45	-25~45	-25~45	-25~45
Water Piping Connections		inch	G1	G1	G1	G1-1/4	G1-1/4
Rated Water Flow		m³ / h	1.0	2.08	2.08	3.1	2.08
Water Pressure Drop		kPa	20	20	20	55	55
Min/Max water pressure		MPa	0.1/0.3	0.1/0.3	0.1/0.3	0.1/0.3	0.1/0.3
Noise Level		dB(A)	48.00	50	50	55	55
Net Dimensions (L×W×H)		mm	1187x418x805	1287x448x904	1287x448x904	1187x488x1456	1187x488x1456
Net Weight		kg	110	123	123	184	184

Heating ¹ Ambient Temp 7°C/6°C (DB/WB) Water-in/out Temp 30°C/35°C

Heating ² Ambient Temp 7°C/6°C (DB/WB) Water-in/out Temp 47°C/55°C

Cooling Ambient Temp 35°C/24°C (DB/WB) Water-in/out Temp 12°C/7°C

All In One Heat Pump

R134a Features:

- R134a refrigerant,environmental friendly
- CMEV: Central mechanical extract ventilation.
- WIFI smart control.
- Microchannel heat exchanger
- Higher water temperature output up to 75°C.

R290 Features:

- R290 low GWP(GWP=3).
- CMEV: Central mechanical extract ventilation.
- WIFI smart control.
- Energy efficient class: A++.
- Microchannel heat exchanger

Stable silent operation

Technical Data R134a R290

Photos				
Model				
Power Supply	220~240V/1/50Hz			
Rated Heating Capacity (kW)	2.4	2.4	2.4	2.4
Refrigerant	R134a		R290	
Tapping Cycle	L	XL	L	XL
Energy Efficiency Class	A+	A+	A++	A++
Energy Efficient ηwh (%)	148.9	142.0	154.5	158.7
**COP (EN16147)	3.48	3.52	3.75	3.81
Tank Capacity (L)	200	300	200	300
Air Flow (m³/h)	450			
Air Discharge	Vertical			
Air Duct Diameter (mm)	φ150			
Auxiliary electric heater (kW)	2			
Default Water Temperature (°C)	55			
Working Temperature Range (°C)	7°C-43			
Unpacked Dimension (mm)	Φ620*1672	Φ620*1937	Φ620*1672	Φ620*1937
Packed Dimension (L*W*H)(mm)	700*700*1790	700*700*2050	700*700*1790	700*700*2050
Net Weight (kg)	110	130	110	130
Gross Weight (kg)	125	145	125	145
Noise (dB(A))	46		46	

** Above results are tested at ambient temperature DB20°C/WB15°C, water temperature in 15°C/out 55°C according to EN16147:2017

Household Swimming Pool Heat Pump

Centralized Control

Pool Heat Pump is designed with centralized control function that make temperature adjustment and failure review easier. By incorporating the master-slave control into the design, the whole units can work together with higher efficiency without interfered by any failure of theslaveunit duringoperation.

High Efficiency

COP

The swimming pool heat pump has high efficiency for either pool heaing or cooling.

Dual Coil Titanium Heat Exchanger

Compared with normal single coil heat exchangers, use dual coil titanium heat exchanger enlarges the heat texchanging surface that increases efficiency by providing an sufficient action area

Compressor

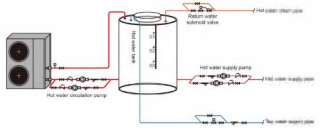
The compressor with precise energy stage setting ensures the excellent performance of energy savings

HOUSEHOLD INVERTER SWIMMING POOL MACHINE

Model							
Refrigerant			R32				
Power Supply		V/Ph/Hz	220-240/1/50				
A27/W26℃	Heating capacity	KW	3.60	6.00	8.50	12.00	15.20
		KW	1.2-4.5	1.5-7	2.2-10.2	3.1-13.5	3.9-17
		BTU/h	12986.00	20473.00	29044.00	40946.00	51865.00
	Power iuput	KW	0.69	0.95	1.18	1.65	2.00
	Current	A	3.10	4.30	5.40	7.50	10.50
	COP	W/W	5.50	6.30	7.30	7.30	8.60
	Heating capacity	KW	2.70	4.50	6.40	8.60	11.00
		KW	1.3-3.1	1.1-5.2	1.7-7.5	2.3-9.5	2.8-12.4
		BTU/h	9213.00	15355.00	21838.00	29344.00	37534.00
	Power iuput	KW	0.68	0.98	1.25	1.71	2.34
	Current	A	3.10	4.50	5.70	7.90	10.80
	COP	W/W	4.00	4.80	5.10	5.00	4.70
	Cooling capacity	KW	2.00	4.30	5.40	7.60	8.80
		BTU/h	6824.00	14672.00	18426.00	25932.00	27297.00
	Power iuput	KW	0.70	1.30	1.70	2.30	3.10
	Current	A	3.20	5.90	7.70	10.50	14.10
	EER	W/W	2.90	3.30	3.20	3.30	2.90
A43/W30℃	Cooling capacity	KW	1.20	3.70	4.10	5.60	4.80
		BTU/h	4095.00	12625.00	13990.00	19108.00	16378.00
	Power iuput	KW	0.80	1.40	1.37	1.80	2.40
	Current	A	2.70	6.40	7.10	8.20	10.90
	EER	W/W	2.00	2.60	2.80	3.10	2.00
OPERATING	Water outlet temp.range	℃	15-40	15-40	15-40	15-40	15-40
	Ambient temp.range	℃	-10-43	-10-43	-10-43	-10-43	-10-43
HEAT EXCHANGER	Compressor brand		GMCC	MITSUBISHI ELECTRIC			
	Compressor type		Rotary*1	Rotary*1	Rotary*1	Rotary*1	Rotary*1
	Controller		Micro processor based digital controller with LCD touch screen disply				
MAX	Noise	dB(A)	48.00	47.00	50.00	52.00	54.00
	Power iuput	KW	0.95	1.50	2.20	2.60	3.30
	Current	A	4.30	6.80	10.00	11.80	15.00
KEY	Type		Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC
	Standard water flow	m3/h	1.60	2.60	3.70	5.20	6.70
	Suggested water flow	m3/h	1-2	2-3	3-5	4.2-6	6-8
	Water pressure drop(max)	kPa	5.00	4.00	6.00	8.00	12.00
	Water connection	mm	25.00	50.00	50.00	50.00	50.00
FAN	Position		Side	Side	Side	Side	Side
	Material		Plastic	Plastic	Plastic	Plastic	Plastic
	Air flow	m3/h	1000.00	1300.00	1800.00	2500.00	2800.00
DIMENSIONS (L x W x H)	net	mm	430/325/430	895/396/570	895/396/570	895/396/570	895/396/570
WEIGHT		kg	20/22	35/38	45/48	52/56	53/57

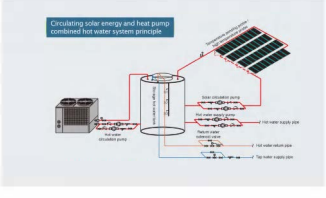
Commercial Air Source Heat Pump Water Heater

Circulating hot water system principle



Heat Energy Supply

Heat Pump + Solar Energy = SAVE MONEY!



Professional compressor for heat pump water heater: Adopt Copelandor Panasonic top quality scroll compressor specially for heat pump water heater, with much wider operation range for different ambient temperature. Special design for high suction & exhaust temperature, and sy stem high condensingtemperature & pressure, Higherefficiency, Lowernoise, Higher reliability. Longerservicelife.

Large air volume, low noise fan motor: Use airfoil shape, large chord, space distortion alloy blade, efficient internal rotormotor; Highefficiency and compact.

Wifi functionfor option(Control by Appson mobile phone)

High efficiency shell & tubeheat exchanger: Adopthigh efficiency internal threadcopper coil, which heatingarea is 3.6 times than ordinary smooth coil, larger diameterwater loop designto makewater flow smoothly, energy efficiency is superior

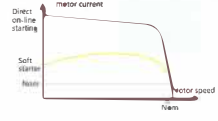
Stainlesssteel 304 material forside cover of finned tube heatexchanger, for all fastener and otherimportant parts, not easy to rustand corrosion, more durable.

Low ODP refrigerant: R410a, other refrigerant foroption

High precision electronic expansion valve: use electronic expansion valvefor controlling, reach 500 steps adjustment, adjust super heat degreesaccurately, achievehighefficiency operationsystem

Controller: Adopt famousmaster chip, ensurestable running. With lotof protection functions: High & low pressure protection, anti-freezing protection, high temperature protection, overload protection, lack phase and reverse phase protection, and se on. Mod ular control for at most 16 heat pumps, can be combined freely according to the requiredcapacity

The blue hydrophilic aluminum foil fin heat exchanger adopts cross-type multi-flow path design to maketheheat exchange more uniform, theinternal thread copper tube design hashigherheattransfer efficiency; at thesame time, thehydrophilicfins are not easy to form water droplets, Spread ing into a uniform water film completely on thesurfaceof fins, eliminatesthe generationof water bridgas, which greatly improvesthe heat exchangecapa city andheatexchangeefficiency between the aluminum foil and the flowingair.



Soft starter foroption, reduce thestarting current and starting stress, extendtheservice lifeofthe motor and related equipment. Smooth startand softstop avoid thesurge problem and water hammer effect of traditional startingequipment.

Commercial Air-to-water Hot Water Heat Pump

		-E3	-E5	-E5	-E10	-E10	-E20	-E20	-E20
Rated heating capacity (kW)		11.9	18.8	24.5	34.7	49.6	73.8	84.5	103.8
Rated input power (kW)		2.85	4.45	5.86	8.16	11.95	17.66	20.02	24.95
Rated input current (A)		5.41	8.45	11.53	15.89	20.91	35.78	38.24	48.38
Maximum input power (kW)		3.82	7.31	9.68	11.47	17.38	27.20	31.28	39.11
Maximum input current (A)		6.41	12.15	18.42	22.36	29.53	51.23	59.15	73.96
Performance coefficient(COP)		4.17	4.22	4.18	4.25	4.15	4.18	4.22	4.16
Rated hot water output temp (C)		55							
Max. hot water output temp (C)		60							
Rated hot water produce capacity (L/H)		253	401	525	744	1063	1582	1812	2226
Powersupply		3N 380V~420V/50Hz							
Compressor	Type	Hermetic scroll type							
	Start Mode	Directly start(Soft start for option)							
	Quantity Set	1	1	1	2	2	4	4	4
Waterside heat exchanger	Type								
	Water flow (m³/h)	2.1	3.3	4.1	6.0	8.6	12.9	14.6	18.1
	Water Pressure Drop (kPa)	≤50	≤55	≤55	<60	<70	<70	<72	<72
	Pipe size (DN)	DN20	DN25	DN25	DN32	DN32	DN50	DN50	DN50
Protections		1. High pressure and low pressure protection, 2. Anti-freezing protection, 3. High temperature protection, 4. Too big of the water temperature difference for outlet and inlet protection, 5. Overload protection, 6. Lack phase protection, 7. Reverse pha:							
Refrigerant	Throttle Type	Electronic expansion valve							
	Quantity (kg)	1.9	2.6	4	2.6×2	4.0×2	2.6×4	3.2×4	4.0×4
Noise DB(A)		≤55	≤63	≤68	≤68	≤68	≤69	≤69	≤70
length (mm)		700	820	820	1502	1502	1995	1995	1995
width (mm)		680	695	695	750	750	1165	1165	1165
height (mm)		875	1060	1060	1060	1060	1105	1105	1105
Net Weight (kg)		110	160	190	255	400	600	725	855

Testing conditions:

1. Application side initial water temperature: 15 C, end temperature 55 C, max. temperature 60 C.

2. Ambient temperature dry bulb 20 C, wet bulb 15 C.

The above parameters are basedon Refrigeamt R410a, for parameters basedon other refrigerant please contact us.

The above parameters may have some differences from the final product because of products updating, so above information is not the provision of any business contract. Please refer to final product label when buy, or refer to us for any information. Our company keeps the right to interpret.