



UNIEPU NEW ENERGY
SOLAR THERMAL

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Solar Water Heater Accessories Are Available in Our Online Shop: <https://uniepu.myshopify.com/>

All specifications are provided as theoretical values and are subject to minor deviations in actual performance. Specifications may be changed without prior notice. For any clarifications, please contact us directly.



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CATALOGUE

VACUUM TUBE SOLAR WATER HEATER

About Us	1
Non-Pressurized Solar Water Heater S02 Series	3
Smart Solar Water Heater G01/02 series	4
Pre-heated Solar Water Heater P02 Series	5
Pressurized Solar Water Heater IP01/K-IP01 Series	6
Pressurized Solar Water Heater IP01-SS Series	8

FLAT PANEL SOLAR WATER HEATER

Non-Pressurized Solar Water Heater GI Series	9
Non-Pressurized Solar Water Heater SS Series	10
Pressurized Solar Water Heater FPS01-GI Series	11
Pressurized Solar Water Heater FPS01-SS Series	12

SOLAR COLLECTOR

Non-Pressurized Solar Collector E01 Series	13
Heat Pipe Solar Collector HP01 Series	14
Flat Panel Solar Collector FP01 Series	15
Solar Air Collector SAC Series	17

STORAGE WATER TANK

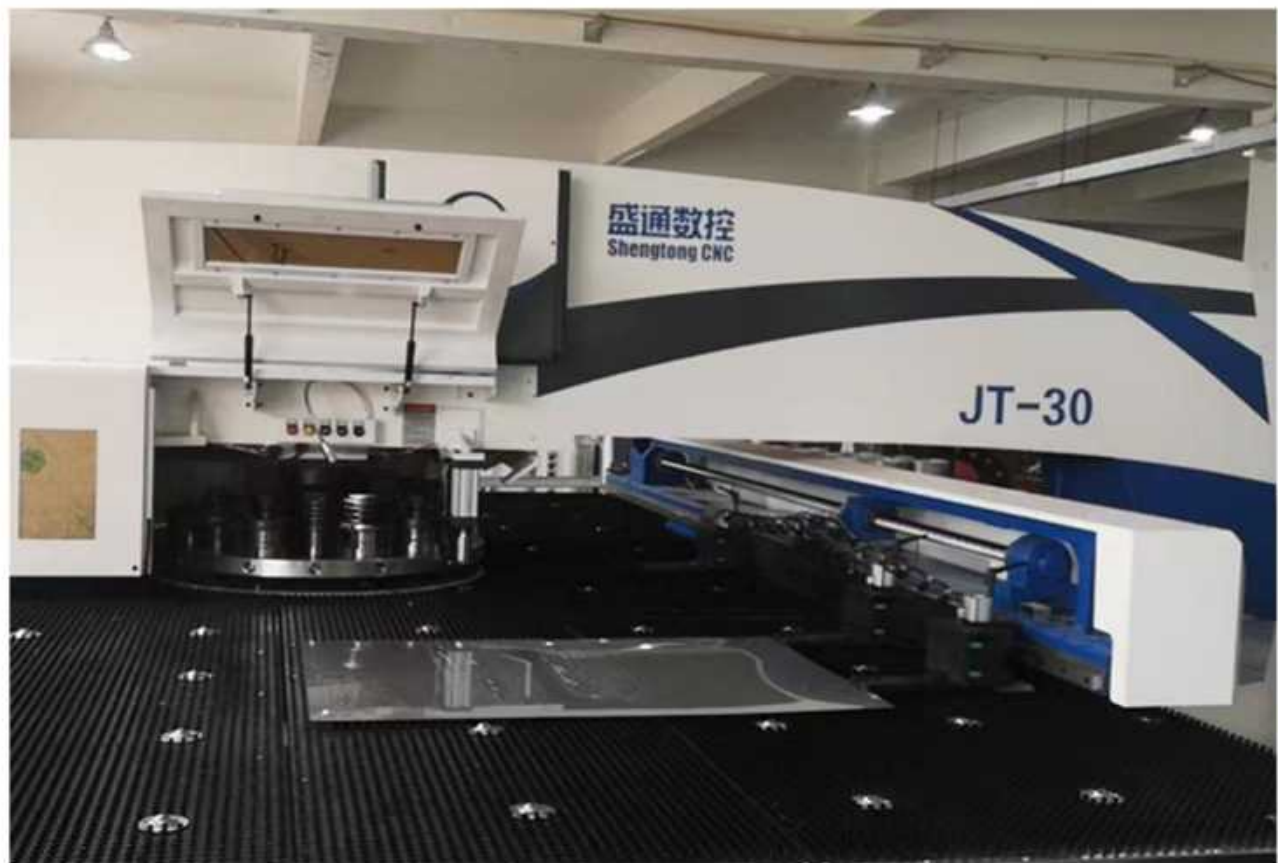
Storage Water Tank	18
2-in-1 Water Tank	19

ACCESSORIES

Accessories for solar water heater	20
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ABOUT US



Uniepu was established in 2009 and has been dedicated to extensive research, development, design, production, and marketing of solar water heaters and air-source heat pumps. Uniepu is committed to providing a comprehensive range of high-quality hot water system solutions for residential and commercial clients worldwide. Our knowledgeable and friendly customer service team is always available to assist you throughout the purchasing process and answer any questions.

Our products are divided into two main categories: the solar energy series and the solar-powered air conditioner series.



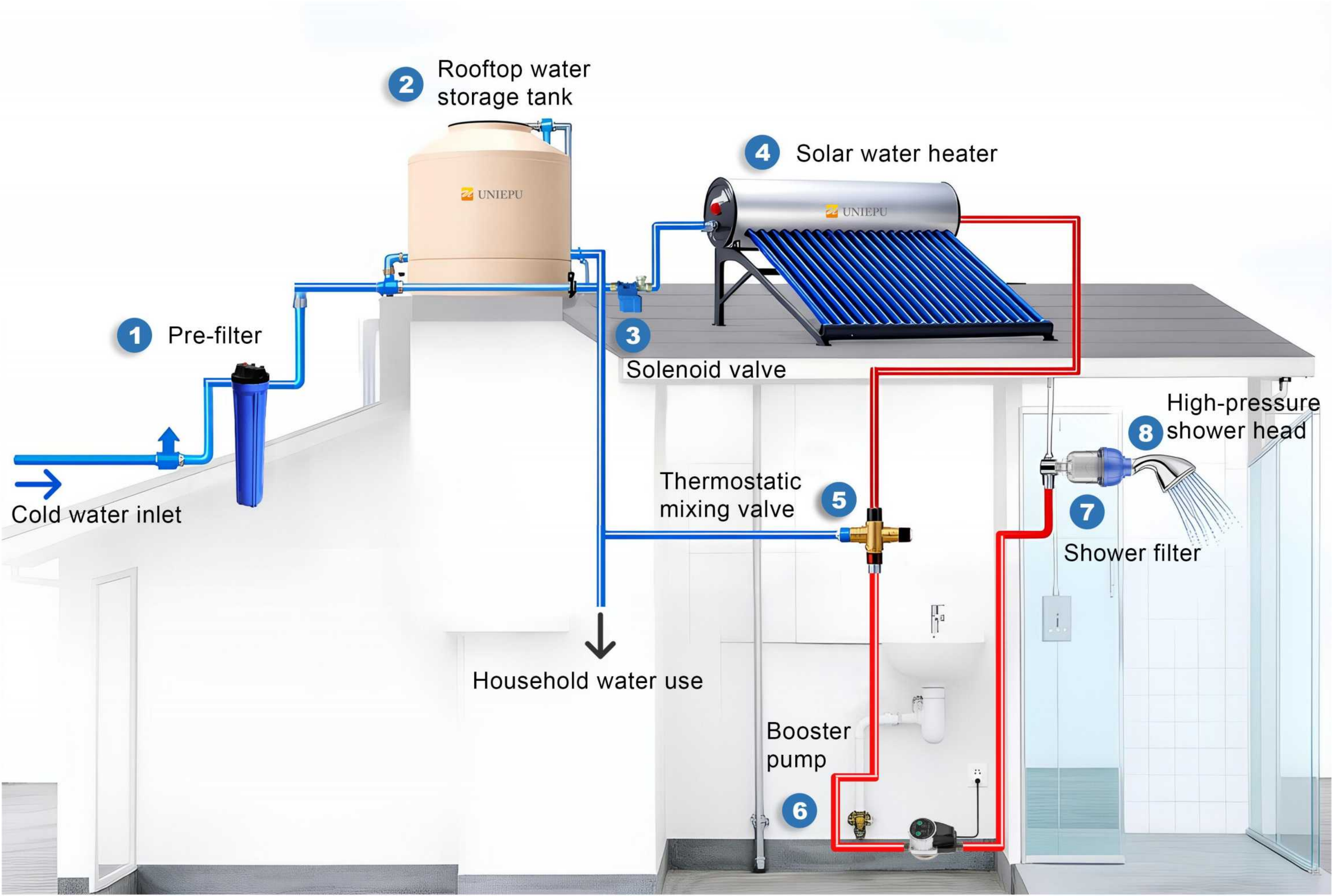
In 2023, Uniepu made a significant investment of over 3 billion RMB in its solar energy series factories, leading to a 25% increase in production capacity. This allows Uniepu to offer professional and satisfactory services to a larger number of customers. The current daily production capacity has reached a peak of 350 units. The solar energy products available at Uniepu include a broad range of options such as solar water heaters, solar collectors, solar thermal energy systems, PVT hybrid panels, and solar accessories.



For the solar-powered air conditioner series, we also have a professional R&D design center and laboratory. Some of our products have passed CE certification, and all our products are backed by a comprehensive after-sales warranty system.

Our goal is to promote energy conservation and environmental protection, to cherish our planet and safeguard our home. We are committed to being the most loyal supporters and practitioners of green energy forever.

A COMPLETE SOLUTION FROM WATER SOURCE TO SHOWER



SYSTEM COMPONENT SPECIFICATIONS

1  Pre-filter ·Filters out sediment, rust, and particulates ·Protects water tanks, piping, and water heaters ·Available in 40, 60, or 100-micron ratings	2  Rooftop water storage tank ·Available in 500L, 750L, and 1100L capacities ·Food-grade, UV-resistant material ·Adapts to the water usage habits of different households.	3  Solenoid valve ·Automatic water filling control and overflow prevention.	4  Solar water heater ·Energy-efficient and eco-friendly; reduces electricity costs ·Optional electric auxiliary heating ·Various capacities available (60L-500L)
5  Thermostatic mixing valve ·Precise control of outlet water temperature ·Prevents scalding for greater household safety ·Suitable for solar, electric, and gas water heaters	6  Booster pump ·Automatic start/stop, stable water pressure ·Suitable for rooftop water tank systems ·Dry-run protection, low noise	7  Shower filter ·Further filters out impurities ·Improves shower water quality ·Protects skin and hair	8  High-pressure shower head ·Boosts water pressure for a more comfortable flow ·Water-saving design ·Multiple spray modes

FOR ENDLESS COMFORT, RELIABILITY, AND SAVINGS.

Non-Pressurized
Solar Water
Heater
S02 Series

Item No.	Solar Vacuum Tube		Absorber Area (m²)	Tank Capacity	Loading Qty/sets 20GP/40GP/40HQ
	pcs	size/mm			
UNP-S02-8	8	Φ58 X 1800	0.64	80Liter	100/208/248
UNP-S02-10	10	Φ58 X 1800	0.8	100Liter	85/176/209
UNP-S02-12	12	Φ58 X 1800	0.96	120Liter	72/150/178
UNP-S02-15	15	Φ58 X 1800	1.97	150Liter	60/125/149
UNP-S02-18	18	Φ58 X 1800	2.36	180Liter	50/105/125
UNP-S02-20	20	Φ58 X 1800	2.62	200Liter	46/96/114
UNP-S02-24	24	Φ58 X 1800	3.15	240Liter	38/80/95
UNP-S02-30	30	Φ58 X 1800	3.95	300Liter	32/66/79
UNP-S02-36	36	Φ58 X 1800	4.75	360Liter	26/54/65



Standard Default Configuration:

- 1. Diameter of the tank: 360/450 mm, 20° hole to hole distance: 75mm
- 2. Insulation thickness: PU foam 45mm
- 3. Inner tank: SUS304-2B, 0.41mm
- 4. Outer tank: SUS201, 0.31mm
- 5. Connection: Inlet/outlet/vent all 3/4"
- 6. Bracket: SUS201, 1.0mm
- 7. Tube: Φ58 X 1800, borosilicate glass 3.3
- 8. Including accessories: magnesium bar

CHARACTERISTICS

- 1. Operates naturally by gravity or tap water tank pressure. No circulating pump or controller required.
- 2. Quick rooftop installation with low maintenance.
- 3. Can save up to 70–80% of water heating energy cost.
- 4. Lower system cost compared with pressurized or split systems.
- 5. Widely used in residential and rural applications.

MATERIAL OPTION

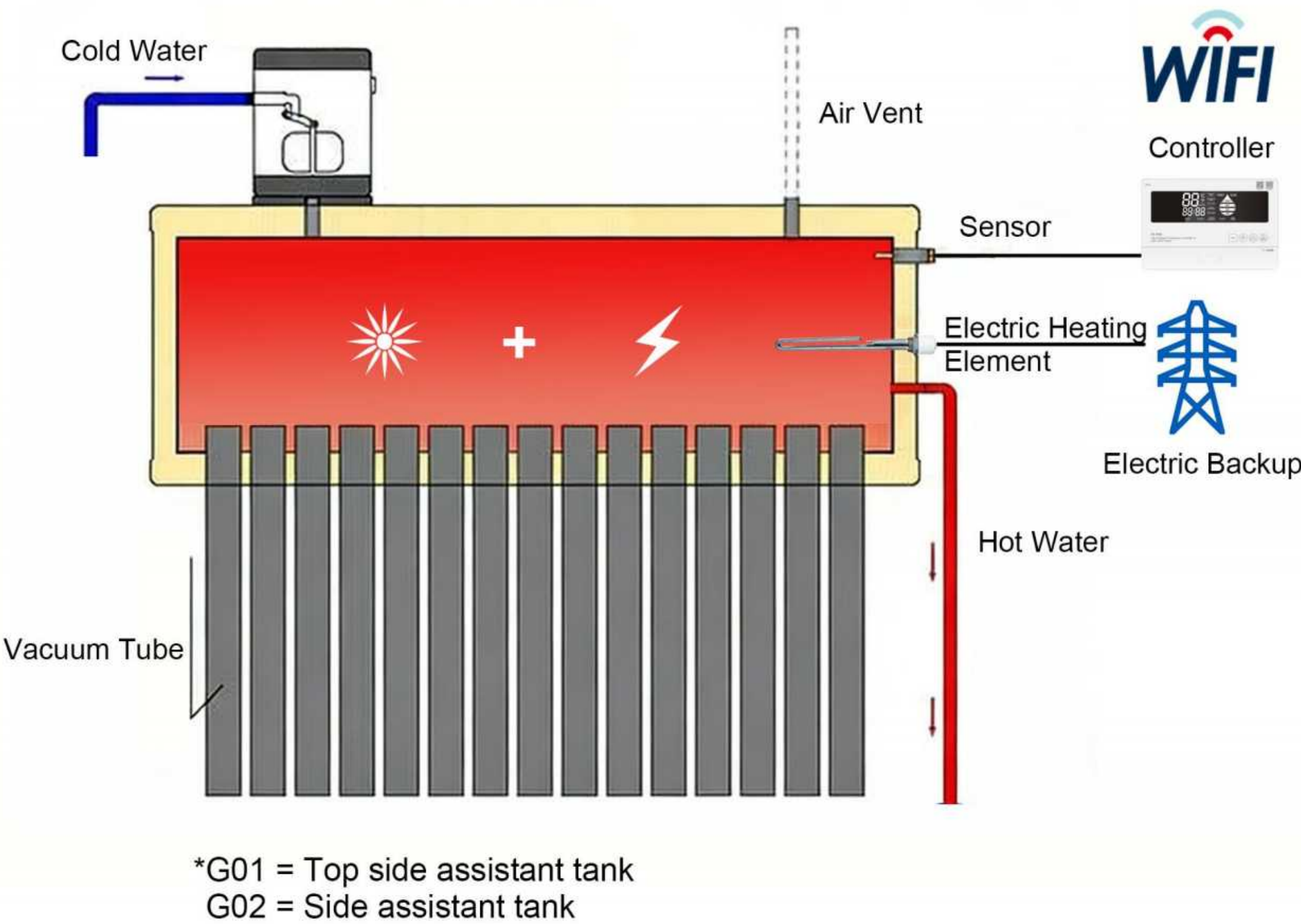
- 1.Inner Tank: SUS304-2B / SUS316L, 0.31-0.5mm thickness
- 2.Outer Tank: SUS201 / Galvanized steel, 0.31mm thickness
- 3.Hole to hole distance: 75mm / 80mm
- 4.Bracket: SUS201 / Galvanized steel, thickness: 1.0/1.2mm. Angle with optional angles: 20°, 27°, 38°, 45°.
- 5.Accessories for option: assistant tank, controller, electric heater, air vent base, reflector.
- 6.Brand printing & custom packaging

Smart Solar
Water Heater
G01/G02* Series

 7*24H hot water

 Wifi control

Item No.	Solar Vacuum Tube		Absorber Area (m²)	Tank Capacity	Loading Qty/sets 20GP/40GP/40HQ
	pcs	size/mm			
UNP-G01/02-8	8	Φ58 X 1800	0.64	80Liter	96/199/237
UNP-G01/02-10	10	Φ58 X 1800	0.8	100Liter	82/169/202
UNP-G01/02-12	12	Φ58 X 1800	0.96	120Liter	70/145/173
UNP-G01/02-15	15	Φ58 X 1800	1.97	150Liter	59/122/145
UNP-G01/02-18	18	Φ58 X 1800	2.36	180Liter	49/102/122
UNP-G01/02-20	20	Φ58 X 1800	2.62	200Liter	45/94/112
UNP-G01/02-24	24	Φ58 X 1800	3.15	240Liter	38/79/94
UNP-G01/02-30	30	Φ58 X 1800	3.95	300Liter	31/65/77
UNP-G01/02-36	36	Φ58 X 1800	4.75	360Liter	26/54/64



Standard Default Configuration:

- 1. Diameter of the tank: 360/456mm, 38° hole to hole distance: 80mm
- 2. Insulation thickness: PU foam 50mm
- 3. Inner tank: SUS304-2B, 0.41mm
- 4. Outer tank: galvanized steel, 0.4mm
- 5. Connection: Inlet/outlet/vent all 3/4"
- 6. Electric heater: 1500w, 1"
- 7. Assistant tank: 5L, galvanized steel, 3/4"
- 8. Bracket: galvanized steel, 1.2mm
- 9. Tube: Φ58 X 1800, borosilicate glass 3.3
- 10. Including accessories: magnesium bar, assistant tank, electric heater, controller

CHARACTERISTICS

- 1. Continuous 24/7 Hot Water Supply. Provides reliable hot water throughout the day using solar energy.
- 2. Smart WiFi Control System, easily monitor and control water temperature via mobile APP.
- 3. Operates with Non-pressurized system (gravity type), No need for booster pumps — simple and stable operation.
- 4. High Efficiency & Energy Saving, Advanced vacuum tube technology maximizes solar heat absorption and reduces electricity costs.

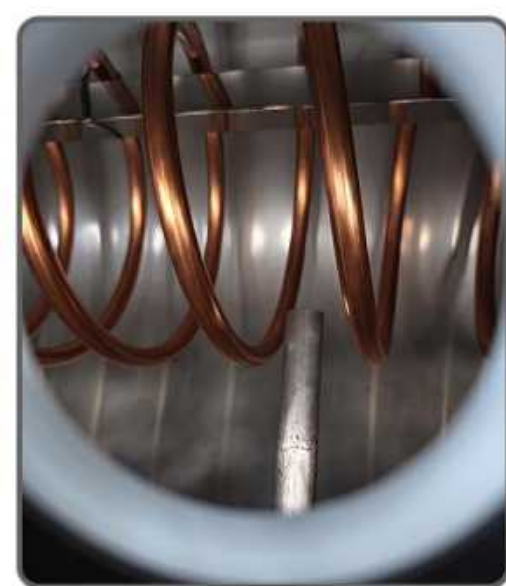
MATERIAL OPTION

- 1.Inner Tank: SUS304-2B / SUS316L, 0.31-0.5mm thickness
- 2.Outer Tank: SUS201 / Galvanized steel, 0.31mm thickness
- 3. Hole to hole distance: 75mm / 80mm
- 4.Bracket: SUS201 / Galvanized steel, thickness: 1.0/1.2mm. Optional bracket angles: 20°, 27°, 38°, 45°.
- 5. Working temperature: 99°C
- 6. Working pressure: 0.005Mpa
- 7. Accessories for option:reflector
- 8. Brand printing & custom packaging

Pre-heated
Solar Water
Heater
P02 Series



Item No.	Solar Vacuum Tube		Tube Coating	Absorber Area (m²)	Tank Capacity	Loading Qty/sets
	pcs	size/mm				20GP/40GP/40HQ
UNP-P02-10	10	Φ58 X 1800	Cu-S/S-AL/N	1.36	100Liter	82/169/202
UNP-P02-12	12	Φ58 X 1800		1.64	120Liter	70/145/173
UNP-P02-15	15	Φ58 X 1800		2.04	150Liter	59/122/145
UNP-P02-18	18	Φ58 X 1800		2.26	180Liter	49/102/122
UNP-P02-20	20	Φ58 X 1800		2.72	200Liter	45/94/112
UNP-P02-24	24	Φ58 X 1800		3.27	240Liter	38/79/94
UNP-P02-30	30	Φ58 X 1800		3.41	300Liter	31/65/77
UNP-P02-36	36	Φ58 X 1800		3.91	360Liter	26/54/64



- Standard Default Configuration:
1. Diameter of the tank: 360/456mm, 27° hole to hole distance: 80mm
 2. Insulation thickness: PU foam 50mm
 3. Inner tank: SUS304-2B, 0.41mm
 4. Outer tank: galvanized steel, 0.4mm
 5. Connection: Inlet/outlet/vent all 3/4"
 6. Assistant tank: 5L, galvanized steel, 3/4"
 7. Coil: copper, Φ0.5
 8. Bracket: galvanized steel, 1.2mm
 9. Tube: Φ58 X 1800, borosilicate glass 3.3
 10. Including accessories: magnesium bar, assistant tank

CHARACTERISTICS

1. Instant heat exchange provides abundant warm water.
2. Ensures fresh and high-quality water.
3. Operates under pressure.
4. The output water temperature is stable, ensuring comfort and safety.
5. Hot and cold-water flows are separated.
6. Copper coil is tested for durability and does not break.
7. Operates intelligently, making it easy and reliable.
8. Delivers excellent performance.

MATERIAL OPTION

1. Inner Tank: SUS 304-2B / SUS316L, 0.31-0.5mm thickness
2. Outer Tank: SUS201 / Galvanized steel, 0.31mm thickness
3. Hole to hole distance: 75mm / 80mm
4. Coil: copper or stainless steel, Φ0.5-0.8mm, length depends on capacity
5. Bracket: SUS201 / Galvanized steel, thickness: 1.0/1.2mm. Angle with optional angles: 20°, 27°, 38°, 45°.
6. Accessories for option: Electric heater, controller, air vent base, reflector.
7. Brand printing & custom packaging

PRESSURIZED
SOLAR WATER
HEATER



Model		UNP-K-IP01-153L	UNP-K-IP01-202L
Tank	Inner Diameter	360	
	Outer Diameter	460	
	Insulation Thickness	50	
	Inner Tank	Stainless steel 1.2mm	
	Outer Tank	Galvanized steel 0.41mm	
	Insulation Density	36kg/m³	
	Hole to hole Distance	80	
Frame	Type	7*7	
	Thickness	Galvanized steel 1.5mm thickness	
Collector	No.s of Tube	18	24
	Thickness of Tubes	Inner tube 1.6mm, outer tube 2.2mm	
	Absor area	2.52m²	3.36m²
	Output	150W	
	Tube	58/1800 Three Layers Coating	
	Heat Pipe	T2 Copper 1700mm*0.7mm	
Working Temperature		-15°C-45°C	
Accessories		PT valve, Air Vent Valve, Check Valve, Vacuum Valve, Mag Bar Reserve electric heating and induction holes	

Unlike ordinary non-pressurized solar water heaters, pressurized solar water heaters use the pressure from the water supply network as the hot water outlet pressure, making the hot water pressure equal to the cold water pressure. This solves the problem of low water pressure in ordinary solar water heaters that rely on gravity. Pressurized solar water heaters ensure stable water pressure and temperature while providing hot water, making them an efficient and environmentally friendly hot water solution.

Pressurized Solar Water Heater IP01 Series



Item No.	Solar Vacuum Tube		Tube Coating	Absorber Area (m²)	Tank Capacity	Loading Qty/sets
	pcs	size/mm				20GP/40GP/40HQ
UNP-IP01-10	10	Φ58 X 1800	Cu-S/S-AL/N Heat Pipe	1.36	100Liter	79/165/196
UNP-IP01-12	12	Φ58 X 1800		1.64	120Liter	68/142/169
UNP-IP01-15	15	Φ58 X 1800		2.04	150Liter	57/119/142
UNP-IP01-18	18	Φ58 X 1800		2.26	180Liter	48/100/119
UNP-IP01-20	20	Φ58 X 1800		2.72	200Liter	44/92/110
UNP-IP01-24	24	Φ58 X 1800		3.27	240Liter	37/78/93
UNP-IP01-25	25	Φ58 X 1800		3.41	250Liter	36/76/90
UNP-IP01-30	30	Φ58 X 1800		3.91	300Liter	31/64/77



- Standard Default Configuration:
- 1. Diameter of the tank: 380/470mm, 20° , hole to hole distance 75mm
 - 2. Insulation thickness: PU foam 50mm
 - 3. Inner tank: SUS304-2B, 1.0mm
 - 4. Outer tank: galvanized steel, 0.31mm
 - 5. Connection: Inlet/outlet/magnesium bar all 3/4"
 - 6. T/P valve: 3/4"
 - 7. Vacuum valve: 3/4"
 - 8. Bracket: galvanized steel, 1.5mm
 - 9. Tube: Φ58 X 1800, borosilicate glass 3.3
 - 10. Heat pipe: red copper, Φ14mm, length 1700mm
 - 11. Including accessories: magnesium bar, T/P valve, vacuum valve, one-way check valve

CHARACTERISTICS

- 1. Works under high pressure
- 2. Utilizes heat pipe vacuum tubes for efficient heat transfer, reducing water heating time
- 3. Hot water is delivered under pressure
- 4. No restrictions on installation position
- 5. Each tube functions independently, ensuring the system continues working even if one tube is broken

MATERIAL OPTION

- 1.Inner Tank: SUS 304-2B / SUS316L, 1.0-1.2mm thickness
- 2.Outer Tank: SUS201 / Galvanized steel, 0.31mm thickness
- 3.Hole to hole distance: 75mm / 80mm
- 3.Bracket: SUS201 / Galvanized steel, thickness: 1.2/1.5mm. Angle with optional angles: 20°, 27°, 38°, 45°.
- 4.Heat pipe: all-copper / copper condenser head with stainless-steel tube.
- 4.Working Pressure: 0.6 MPa
- 5.Accessories for option: controller, electric heater, reflector.
- 6.Brand printing & custom packaging

Pressurized Solar Water Heater IP01-SS Series

Item No.	Solar Vacuum Tube		Tube Coating	Absorber Area (m²)	Tank Capacity	Loading Qty/sets
	pcs	size/mm				20GP/40GP/40HQ
UNP-IP01-10-SS	10	Φ58 X 1800	Cu-S/S-AL/N Heat Pipe	1.36	100Liter	79/165/196
UNP-IP01-12-SS	12	Φ58 X 1800		1.64	120Liter	68/142/169
UNP-IP01-15-SS	15	Φ58 X 1800		2.04	150Liter	57/119/142
UNP-IP01-18-SS	18	Φ58 X 1800		2.26	180Liter	48/100/119
UNP-IP01-20-SS	20	Φ58 X 1800		2.72	200Liter	44/92/110
UNP-IP01-24-SS	24	Φ58 X 1800		3.27	240Liter	37/78/93
UNP-IP01-25-SS	25	Φ58 X 1800		3.41	250Liter	36/76/90
UNP-IP01-30-SS	30	Φ58 X 1800		3.91	300Liter	31/64/77



- Standard Default Configuration:
- 1. Diameter of the tank: 380/470mm, 20° , hole to hole distance 75mm
 - 2. Insulation thickness: PU foam 50mm
 - 3. Inner tank: SUS304-2B, 1.0mm
 - 4. Outer tank: SUS304-2B, 0.31mm
 - 5. Connection: Inlet/outlet/magnesium bar all 3/4"
 - 6. T/P valve: 3/4"
 - 7. Vacuum valve: 3/4"
 - 8. Bracket: SUS201, 1.2mm
 - 9. Tube: Φ58 X 1800, borosilicate glass 3.3
 - 10. Heat pipe: red copper, Φ14mm, length 1700mm
 - 11. Including accessories: magnesium bar, T/P valve, vacuum valve, one-way check valve

CHARACTERISTICS

- 1. Works under high pressure
- 2. Utilizes heat pipe vacuum tubes for efficient heat transfer, reducing water heating time
- 3. Hot water is delivered under pressure
- 4. No restrictions on installation position
- 5. Each tube functions independently, ensuring the system continues working even if one tube is broken

MATERIAL OPTION

- 1.Inner Tank: SUS 304-2B / SUS316L, 1.0-1.2mm thickness
- 2.Outer Tank: SUS201 / Galvanized steel, 0.31mm thickness
- 3.Hole to hole distance: 75mm / 80mm
- 4.Bracket: SUS201 / Galvanized steel, thickness: 1.2/1.5mm. Angle with optional angles: 20°, 27°, 38°, 45°.
- 5.Heat pipe: all-copper / copper condenser head with stainless-steel tube.
- 6.Working Pressure: 0.6 MPa
- 7.Accessories for option: controller, electric heater, reflector.
- 8.Brand printing & custom packaging

Non-Pressurized
Flat Panel Solar
Water Heater
FPS01-LP-GI
Series

Item No.	Flat Panel Collector		Absorber Area (m²)	Tank Capacity	Loading Qty/sets
	pcs	m²			20GP/40GP/40HQ
UNP-FPS01-LP100L-GI	1	1.0	0.99	100Liter	58/121/144
UNP-FPS01-LP150L-GI	1	1.0	0.99	150Liter	48/101/120
UNP-FPS01-LP200L-GI	1	1.5	1.49	200Liter	31/65/78
UNP-FPS01-LP250L-GI	1	2.0	1.98	250Liter	28/59/70
UNP-FPS01-LP300L-GI	1	2.0	1.98	300Liter	26/54/64



Standard Default Configuration:

- 1. Diameter of the tank: 360/450mm, 20°
- 2. Insulation thickness: PU foam 45mm
- 3. Inner tank: SUS304-2B, 0.41mm
- 4. Outer tank: galvanized steel, 0.4mm
- 5. Connection: Inlet/outlet/vent all 3/4"
- 6. Circulation inlet/outlet all 3/4"
- 7. Magnesium bar 3/4"
- 8. Bracket: galvanized steel, 1.2mm
- 9. Collector: black coating
- 10. Including accessories: magnesium bar, corrugated connection pipe

CHARACTERISTICS

- 1. Lower upfront cost due to simple, un-pressurized design.
- 2. Uses natural gravity flow instead of electric pumps.
- 3. Flat-plate collectors are highly durable and weather-resistant.
- 4. Operates without electricity, reducing your monthly energy bills.
- 5. Offers easy installation with very minimal long-term maintenance.

MATERIAL OPTION

- 1.Inner Tank: SUS 304-2B / SUS316L, 0.31-0.5mm thickness
- 2.Outer Tank: SUS201 / Galvanized steel, 0.31mm thickness
- 3.Bracket: SUS201 / Galvanized steel, thickness: 1.0/1.2mm. Angle with optional angles: 20°, 27°, 38°, 45°.
- 4.Flat panel: black coating / blue coating
- 5.Collector absor area: 1.0m² / 1.5m² / 2.0m² / 2.5m² / 3m²
- 6.Accessories for option: assistant tank, controller, electric heater
- 7.Brand printing & custom packaging

Non-Pressurized
Flat Panel Solar
Water Heater
FPS01-LP-SS
Series

Item No.	Flat Panel Collector		Absorber Area (m²)	Tank Capacity	Loading Qty/sets
	pcs	m²			20GP/40GP/40HQ
UNP-FPS01-LP100L-SS	1	1.0	0.99	100Liter	58/121/144
UNP-FPS01-LP150L-SS	1	1.0	0.99	150Liter	48/101/120
UNP-FPS01-LP200L-SS	1	1.5	1.49	200Liter	31/65/78
UNP-FPS01-LP250L-SS	1	2.0	1.98	250Liter	28/59/70
UNP-FPS01-LP300L-SS	1	2.0	1.98	300Liter	26/54/64



Standard Default Configuration:

- 1. Diameter of the tank: 360/450mm, 20°
- 2. Insulation thickness: PU foam 45mm
- 3. Inner tank: SUS304-2B, 0.41mm
- 4. Outer tank: SUS201, 0.3mm
- 5. Connection: Inlet/outlet/vent all 3/4"
- 6. Circulation inlet/outlet all 3/4"
- 7. Magnesium bar 3/4"
- 8. Bracket: SUS201, 1.0mm
- 9. Collector: black coating
- 10. Including accessories: magnesium bar, corrugated connection pipe

CHARACTERISTICS

- 1. Lower upfront cost due to simple, un-pressurized design.
- 2. Uses natural gravity flow instead of electric pumps.
- 3. Flat-plate collectors are highly durable and weather-resistant.
- 4. Operates without electricity, reducing your monthly energy bills.
- 5. Offers easy installation with very minimal long-term maintenance.

MATERIAL OPTION

- 1.Inner Tank: SUS 304-2B / SUS316L, 0.31-0.5mm thickness
- 2.Outer Tank: SUS201 / Galvanized steel, 0.31mm thickness
- 3.Bracket: SUS201 / Galvanized steel, thickness: 1.0/1.2mm. Angle with optional angles: 20°, 27°, 38°, 45°.
- 4.Flat panel: black coating / blue coating
- 5.Collector absor area: 1.0m² / 1.5m² / 2.0m² / 2.5m² / 3m²
- 6.Accessories for option: assistant tank, controller, electric heater
- 7.Brand printing & custom packaging

Pressurized Flat Panel Solar Water Heater FPS01-GI Series

Item No.	Flat Panel Collector		Absorber Area (m²)	Tank Capacity	Loading Qty/sets
	pcs	m²			20GP/40GP/40HQ
UNP-FPS01-100L-GI	1	2	1.98	100Liter	58/121/144
UNP-FPS01-150L-GI	1	2	1.98	150Liter	48/101/120
UNP-FPS01-200L-GI	1	2	1.98	200Liter	36/78/99
UNP-FPS01-250L-GI	2	4	3.96	250Liter	28/59/70
UNP-FPS01-300L-GI	2	4	3.96	300Liter	26/54/64
UNP-FPS01-400L-GI	3	6	5.94	400Liter	18/39/46



Standard Default Configuration:

- 1. Diameter of the tank: 380/470mm, 20°
- 2. Insulation thickness: PU foam 50mm
- 3. Inner tank: SUS304-2B, 1.0-1.2mm
- 4. Outer tank: galvanized steel, 0.31mm
- 5. Connection: Inlet/outlet/magnesium bar all 3/4"
- 6. Circulation inlet/outlet all 3/4"
- 7. T/P valve: 3/4"
- 8. Vacuum valve: 3/4"
- 9. Bracket: galvanized steel, 1.5mm
- 10. Collector: blue coating
- 11. Including accessories: magnesium bar, T/P valve, vacuum valve, one-way check valve, corrugated connection pipe



☑ SUS304-2B



☑ SUS316L



☑ Enamel

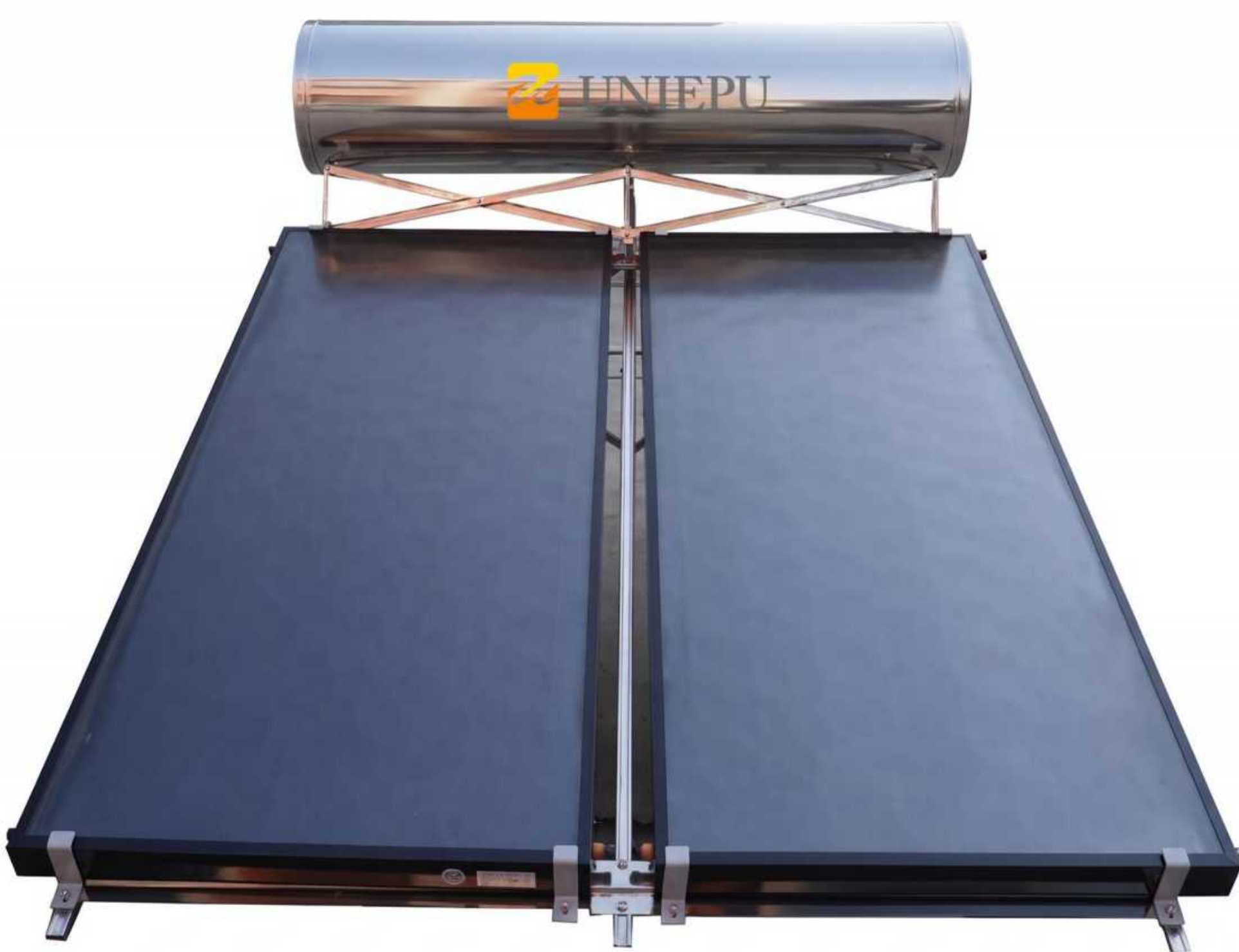


☑ Indirect(Jacket)

Feature	Indirect tank (Jacket tank)	Standard pressurized tank
Structure	Double-wall water inside, solar fluid in jacket	Single-wall or internal coil
Heating	Indirect via inner wall	Direct, or indirect via coil
Freeze protection	Better, glycol in jacket	Depends on system, higher risk
Scale Risk	Lower on potable side	Higher if directly heated
Best for	Cold climates	Mild climates

Pressurized Flat Panel Solar Water Heater FPS01-SS Series

Item No.	Flat Panel Collector		Absorber Area(m²)	Tank Capacity	Loading Qty/sets
	pcs	m²			20GP/40GP/40HQ
UNP-FPS01-100L-SS	1	2	1.98	100Liter	58/121/144
UNP-FPS01-150L-SS	1	2	1.98	150Liter	48/101/120
UNP-FPS01-200L-SS	1	2	1.98	200Liter	36/78/99
UNP-FPS01-250L-SS	2	4	3.96	250Liter	28/59/70
UNP-FPS01-300L-SS	2	4	3.96	300Liter	26/54/64
UNP-FPS01-400L-SS	3	6	5.94	400Liter	18/39/46



Standard Default Configuration:

- 1. Diameter of the tank: 380/470mm, 20°
- 2. Insulation thickness: PU foam 50mm
- 3. Inner tank: SUS304-2B, 1.0-1.2mm
- 4. Outer tank: SUS201, 0.31mm
- 5. Connection: Inlet/outlet/magnesium bar all 3/4"
- 6. Circulation inlet/outlet all 3/4"
- 7. T/P valve: 3/4"
- 8. Vacuum valve: 3/4"
- 9. Bracket: SUS201, 1.2mm
- 10. Collector: blue coating
- 11. Including accessories: magnesium bar, T/P valve, vacuum valve, one-way check valve, corrugated connection pipe

CHARACTERISTICS

- 1.Pressurized hot water flows out.
- 2.Suitable for installation on flat roofs.
- 3.Perfect design combined with thermosiphon technology.
- 4.Thermosyphon system: circulation without the need for additional pumps
- 5. Mounting & Orientation: Installed on rooftops or open areas, usually facing the sun at an optimal angle.

MATERIAL OPTION

- 1.Inner Tank: SUS 304-2B / SUS316L / enamel / indirect jacket, 0.8-2.0mm thickness
- 2.Outer Tank: SUS201 / Galvanized steel, 0.31mm thickness
- 3.Bracket: SUS201 / Galvanized steel, thickness: 1.2/1.5mm. Angle with optional angles: 20°, 27°, 38°, 45°.
- 4.Flat panel: black coating / blue coating
- 5.Working pressure: 0.5-0.7 MPa
- 6.Collector absor area: 1.0m² / 1.5m² / 2.0m² / 2.5m² / 3m²
- 7.Accessories for option: controller, electric heater
- 8.Brand printing & custom packaging

Non-Pressurized Solar Collector E01 Series

Item No.	Solar Vacuum Tube				Absorber Area (m²)	Daily Output (50-90°C)	Loading Qty/sets
	pcs	orientation	size / mm	coating			20GP/40GP/40HQ
UNP-E01-20	20	vertical	Φ58 X 1800	Aluminium Nitride	1.87	150-200L	90/195/220
UNP-E01-25	25	vertical	Φ58 X 1800		2.35	200-250L	72/160/177
UNP-E01-30	30	vertical	Φ58 X 1800		2.35	250-300L	59/128/143
UNP-E01-40	40	horizontal	Φ58 X 1800		3.78	350-400L	82/170/200
UNP-E01-50	50	horizontal	Φ58 X 1800		4.73	450-500L	66/138/161



- Standard Default Configuration:
- 1. Outer Chest: Galvanized steel, 0.4mm
 - 2. Inner tank: SUS304-2B, 0.4mm
 - 3. Hole to hole distance: 75mm
 - 4. Connection: Inlet/outlet all 3/4"
 - 5. Bracket: Galvanized steel, 1.5mm
 - 6. Tube: Φ58 X 1800, borosilicate glass 3.3
 - 7. Heat insulation layer: PU foam, 40mm

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 OPTION

- 1.Inner Tank: SUS 304-2B, 0.4mm thickness
- 2.Outer Tank: SUS201 / Galvanized steel, 0.31-0.4mm thickness
- 3.Bracket: SUS201 / Galvanized steel, thickness: 1.2/1.5mm. Angle with optional angles: 20°, 27°, 38°, 45°.
- 4. Working temperature: 99°C
- 5. Working pressure: 0.005Mpa
- 6. Accessory: Plastic bottom support, silica gasket

Heat Pipe Solar Collector HP01 Series

Item No.	Solar Vacuum Tube			Absorber Area (m²)	Daily Output (50-90°C)	Loading Qty/sets
	pcs	size / mm	coating			20GP/40GP/40HQ
UNP-HP01-12	12	Φ58 X1800	Cu-S/S—AL-N Heat Pipe	0.96	100-120Liter	155/322/383
UNP-HP01-15	15	Φ58 X1800		1.2	120-150Liter	128/266/317
UNP-HP01-18	18	Φ58 X1800		1.44	150-175Liter	105/217/259
UNP-HP01-20	20	Φ58 X1800		1.6	160-200Liter	96/199/236
UNP-HP01-24	24	Φ58 X1800		1.92	200-250Liter	80/166/197
UNP-HP01-30	30	Φ58 X1800		2.4	240-280Liter	66/136/162



- Standard Default Configuration:
- 1. Manifold casing material: Aluminum alloy, 1.8mm, 38°
 - 2. Manifold pipe material: Red copper, 0.75mm
 - 3. Insulation: High-density rockwool
 - 4. Tube: Φ58 X 1800, borosilicate glass 3.3
 - 5. Heat pipe: red copper, Φ14mm, length 1700mm
 - 6. Hole to hole distance: 75mm
 - 7. Connection: Inlet/outlet all 3/4"
 - 8. Bracket: Aluminium alloy 1.8mm

CHARACTERISTICS

- 1.Efficiently transfers heat from the absorber to the heat transfer surface.
- 2.Operates effectively under a wide range of conditions with heat pipes.
- 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 the vacuum tube, allowing the whole collector to continue functioning even if a tube is damaged.

Flat Panel
Solar Collector
FP01 Series



Collector model	UNP-FP01 Blue
Collector type	Roof-mounted collector
Overall area(m²)	2
Absorber area(m²)	1.75
Aperture area(m²)	1.86
L x W x H(mm)	2000×1000×80
Weight(kg)	32
Absorber capacity(L)	2.54
Housing	Aluminum-alloy
Glass	3.2mm Low iron tempered glass
Back plate	Steel plate
Absorber sheet	Cu/Al, oxide film
Absorption(%)	95
Emission(%)	5
φmanifold(mm)	Red copper Φ22×0.6
φrisers(mm)	Red copper Φ8×0.5
Transmittance of glass(%)	92
Insulation	Fiberglass cotton with antifr flaming silver paper veneer/phenolic foam
Max. Stagnation Temp.	170°C
Max. operating pressure	1.0 Mpa
Heat transfer medium	Polypropylene glycol/water mixture
Approved installation angle	Min.15° , Max.60°

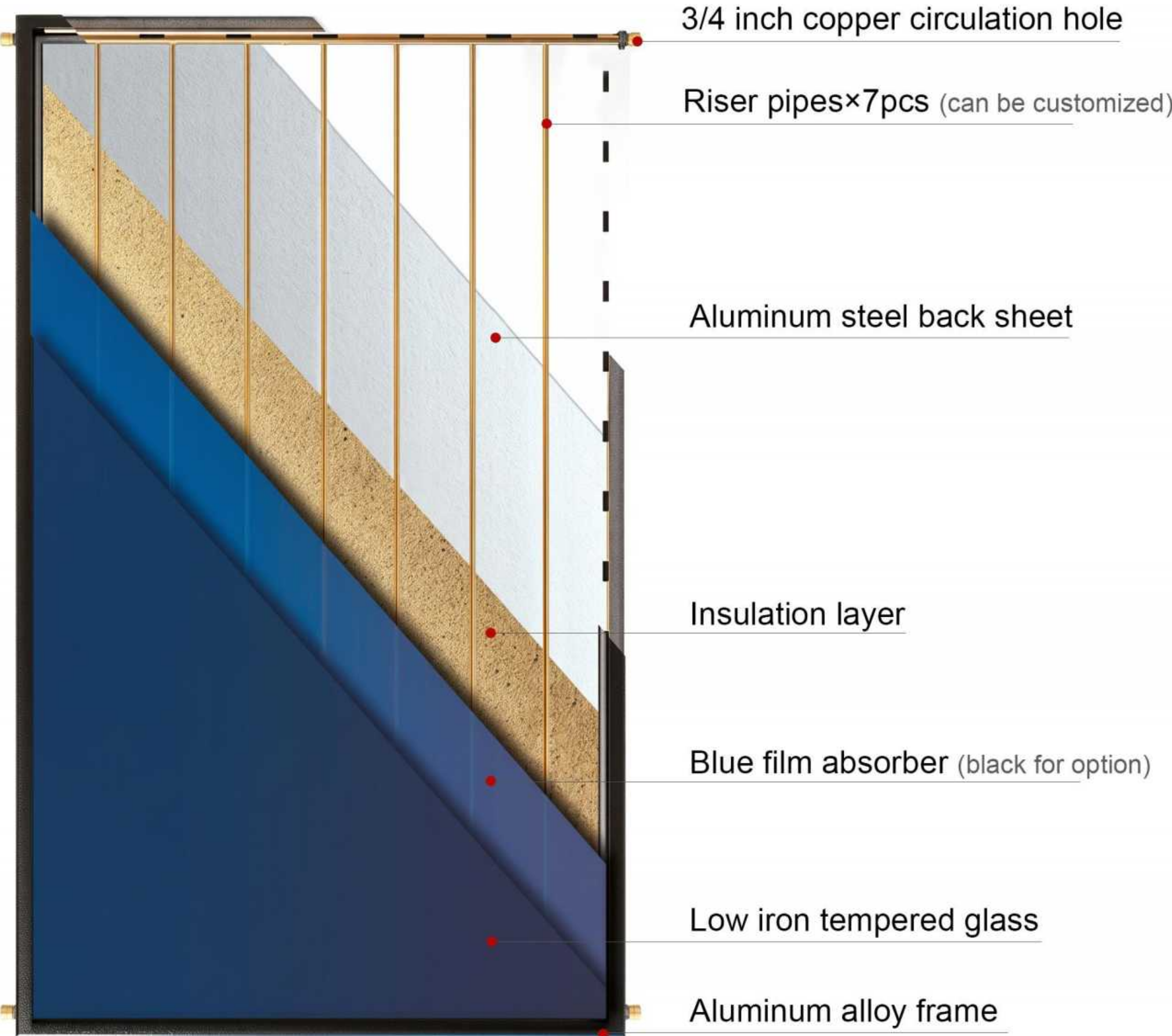


Collector model	UNP-FP01 Black
Collector type	Roof-mounted collector
Overall area(m²)	2
Absorber area(m²)	1.75
Aperture area(m²)	1.86
L x W x H(mm)	2000×1000×80
Weight(kg)	32
Absorber capacity(L)	2.54
Housing	Aluminum-alloy
Glass	3.2mm Low iron tempered glass
Back plate	Steel plate
Absorber sheet	Cu/Al, oxide film
Absorption(%)	92
Emission(%)	8
φmanifold(mm)	Red copper Φ22×0.6
φrisers(mm)	Red copper Φ8×0.5
Transmittance of glass(%)	92
Insulation	Fiberglass cotton with antifr flaming silver paper veneer/phenolic foam
Max. Stagnation Temp.	160°C
Max. operating pressure	1.0 Mpa
Heat transfer medium	Polypropylene glycol/water mixture
Approved installation angle	Min.15° , Max.60°

“Water-Free” Tube Design
Suitable for sub-zero area.



☑ Heat pipe design



☑ Black



☑ Silver

CHARACTERISTICS

1. Special anodized aluminum alloy frame ensures an attractive appearance and can withstand high pressure without leakage.
2. 50mm fiberglass insulation and EPDM seal strip ensure the solar collector can operate under harsh and extremely cold conditions.
3. Patterned tempered glass (4 mm) or low-iron tempered glass (3.2 mm) is highly durable and provides excellent light transmission.
4. Operation temperature -30°C~120°C.
5. Other custom sizes: 1500x2000x80 / 1000x1500x80 / 1000x1000x80 mm
6. The thickness of manifold and risers can be customized. The number of risers can be customized.
7. Applications: Commonly used for residential and commercial water heating, space heating, and swimming pool heating.

Solar Air Collector SAC Series



Model	UNP-SAC-50
Size (W × L)	2008 × 3850 mm
Peak Output *	3342 W
Aperture Area	4.70 m²
Gross Area	7.86 m²
Net Weight	170KGS
Hot Air Temp.	Max to 200°C (Adjustable from 20-200°C)
Hot Air Volume	200m³/h
Air Blower Power	90W
Evacuated Tubes	Material: Borosilicate 3.3 Tube style: Twin wall all glass Dimensions: Φ58mm outer tube; Φ47mm inner tube; 1.8m length, 1.65mm outer tube wall thickness
Solar Absorber Coating	Material: Graded Al/N on Al Absorptance: >92% (AM1.5); Emittance: <8% (80°C) Vacuum: P<5×10-5 Pa; Heat loss: <0.8W/(m² °C)
Distributing Pipe	Material: Borosilicate 3.3 Dimensions: Φ30mm outer tube; 1.65m length, 1.65mm outer tube wall thickness
Manifold Main Pipe	Material: Stainless steel 304-2B, thickness: 1.0mm
Mounting Frame	Material: Galvanized steel, 1.5mm thickness
Air Blower	Power: 90W, Air Volume: 200m³/h
Smart Controller	Sense the temp., and control the system automatically

CHARACTERISTICS

1. Liquid-free safety: Operating without liquids eliminates freezing risks, toxic antifreeze, and severe leak damage, significantly extending lifespan.
2. High efficiency: It directly heats air up to 200°C without complex exchangers, achieving up to 80% thermal efficiency.
3. Cost-effective: Easy plug-in installation and lower manufacturing costs ensure a rapid 1-2 year return on small investments.
4. Reliable operation: The durable design prevents boiling, dangerous pressure, and overheating while withstanding high wind and snow loads.
5. Low maintenance: A simple structure with fewer moving parts minimizes maintenance requirements and reduces ongoing upkeep costs.

Storage Water Tank



Model	UNP-DWH-150L	UNP-DWH-200L	UNP-DWH-300L
Capacity (L)	150L	200L	300L
Working pressure(Mpa)	0.5-0.7	0.5-0.7	0.5-0.7
Inner/outer diameter(mm)	Φ370/Φ470	Φ400/Φ500	Φ500/Φ600
Inner tank material(mm)	SUS 304 / SUS 316 / Duplex 2205		
Outer tank material	Stainless steel / Galvanized steel		
Insulation thickness(mm)	50	50	50
Connection size	3/4 inch	3/4 inch	3/4 inch
Electric heater	2000W	2000W	3000W
Coil material	SUS 304 / SUS 316 / Copper		
Coil size(build-in coil*)	Φ16*15m	Φ16*15m	Φ16*20m

*External coil available as an option.

Feature

- Internal heat exchanger: Safely transfers heat from the solar fluid directly to your domestic water.
- Closed-loop separation: Keeps anti-freeze solar fluid completely isolated from your clean potable water supply.
- High-density insulation: Thick polyurethane foam minimizes heat loss, keeping water hot long after sunset.
- Backup heating element: A built-in electric heater guarantees steady hot water during long cloudy periods.
- Corrosion resistance: Stainless steel or glass-lined interiors ensure exceptional durability and clean water hygiene.



No Coil Water Tank

Function: Designed primarily for direct hot water storage. It utilizes an external heat source (such as an external plate heat exchanger or direct electric heater) to heat the water, providing maximum storage capacity without internal heat exchange limitations.

Application: Ideal for systems using external heat exchangers, direct heating configurations, or acting as a buffer tank in larger commercial and residential setups where internal coils are not required.



Single Coil Water Tank

Function: Features a single coil built into the bottom, utilizing natural convection for even heating. It efficiently transfers heat from an external source to the water in the tank while ensuring the heating fluid remains completely isolated from the domestic water.

Application: Designed for systems using a single heat source. Typically paired with traditional boilers or standalone air-source heat pumps, making it suitable for setups that do not require backup auxiliary heating.



Dual Coil Water Tank

Function: Features two separate coils (upper and lower), allowing two different heat sources to heat the tank. The lower coil pre-heats water using a primary source, while the upper coil provides backup heating for the top portion.

Application: Perfect for hybrid systems. Typically used to combine a renewable energy source (like solar panels on the lower coil) with a reliable backup (like a gas boiler on the upper coil).

2-in-1 Water Tank

Model	UNP-PDWT-200L	UNP-PDWT-300L	UNP-PDWT-500L
Inner capacity (L)	150L+50L	200L+100L	350L+150L
Inner diameter(mm)	Φ450	Φ480	Φ580
Outer diameter(mm)	Φ550	Φ580	Φ700
Inner tank material(mm)	SUS 304 / SUS 316 / Duplex 2205		
Outer tank material	Stainless steel / Galvanized steel		
Insulation thickness(mm)	50	50	60
Inlet/outlet water connection size	3/4 inch	3/4 inch	3/4 inch
Electric heater connection size	1.25 inch	1.25 inch	1.25 inch
Circulation inlet/outlet connection size	1 inch	1 inch	1 inch
Sensor connection size	1/2 inch	1/2 inch	1/2 inch
Magnesium rod connection size	3/4 inch	3/4 inch	3/4 inch
T/P valve connection size	3/4 inch	3/4 inch	3/4 inch
Drain size	1/2 inch	1/2 inch	1/2 inch
Coil size(build-in coil)	Φ16*15m	Φ16*15m	Φ16*20m
Electric heater	2000W	2000W	3000W
Coil material	SUS 304 / SUS 316 / Copper		
Coil size(build-in coil)	Φ16*15m	Φ16*15m	Φ16*20m



Domestic hot water

Underfloor heating

Applications

- Heat pump systems: Provides domestic hot water and system buffer storage for heat pumps.
- Hybrid energy setups: Integrates smoothly with heat pumps, solar collectors, and backup boilers.
- Residential space heating: Ideal for combining underfloor heating and sanitary hot water demands.
- Compact utility rooms: Perfect for small boiler rooms or apartments with limited floor space.

Feature

- Space-saving design: Stacked 2-in-1 structure cuts installation footprint by 50 percent.
- Fast installation: Minimizes complex piping, saving significant on-site labor and material costs.
- Compressor protection: Buffer volume prevents compressor short-cycling and supports defrosting.
- Fast hot water: Internal coil transfers heat rapidly for continuous domestic hot water.
- Minimal heat loss: High-density PU foam ensures outstanding thermal insulation and efficiency.

Accessories



Assistant Tank
Inner tank: SUS304
Outer tank: Galvanized steel
Insulation layer: PU foam
Capacity: 5Liter



Assistant Tank
Inner tank: SUS304
Outer tank: SUS201
Insulation layer: PU foam
Capacity: 5Liter



Workstation
Power supply: 220V
Working pressure: 6 Bar
Application: Split solar water heater



Controller
Power supply: 110V/220V
Application: Pressurized solar water heater



Controller
Power supply: 110V/220V
Application: Non-pressurized solar water heater



Booster pump
Power supply: 110V/220V
Working voltage: 24V
Power: 80/100/150W
Maximum head: 12/18/22m



Magnesium rod
Size: 18×180mm
Hole: 58mm
Application: Non-pressurized



Magnesium rod
Size: 20×200mm
Hole: 3/4 inch
Application: Pressurized solar water heater



Brass Ferrule Fitting Assembly
Material: Brass
Size: 3/4 inch
Application: Flat panel solar collector



Electric heater
Power supply: 110V/220V
Size: 1 inch
Rated power: 1500W/2000W/3000W
Material: 316L



Thermostat electric heater
Power supply: 110V/220V
Size: 1.25 inch
Rated power: 1500W/2000W/3000W
Material: 316L



Auxiliary Heater Relay Box
Suitable power: ≤ 4000w
Coil voltage: 180V–264V AC, 50/60Hz
Contact current: 25A (4kW)
Horsepower: 2 HP



T/P valve
Material: Brass
Size: 3/4 inch
Working pressure: 6 Bar
Working temperature: 90/99°C



One way check valve
Material: Brass
Size: 3/4 inch
Working pressure: 7 Bar



Air vent base
Material: Plastic
Application: Secure the exhaust pipe.



Vacuum valve
Material: Brass
Size: 1/2 inch
Air intake: 1.55 L/s



Negative pressure valve
Material: Brass
Size: 3/4 inch
Air intake: 1.55 L/s



Sensor sleeve
Material: SUS304
Size: 1/2 inch
Application: Pressurized solar water heater



Expansion tank
Capacity: 18/24 L
Max working pressure: 10 Bar
Temperature range: -10~90°C
Pre-charge: 2 Bar



Filter
Size: 20 inch (Dia 127*565mm)
Port: 3/4 inch
Material: Polypropylene (PP)
Flow Rate: 2000L/H



Flat panel collector connector
Size: 3/4 inch
Material: SUS304
Application: Flat panel solar collector



Thermostatic mixing valve
Size: 3/4 inch
TEMP of mixed outlet: 35°C-55°C
Mixed water flow : 20L/Min
Materials : Brass
Surface treatment : Nickel plating



Solar solenoid valve
Voltage: DC12V
Material: Copper + ABS Plastic
Size: 1/2 inch



Thermal glue
Material: polymerizable liquid matrix combined with an electric insulator as filler.