



NON-PRESSURIZED SOLAR WATER HEATER

KEY SPECIFICATION:

Type (One)	Area (M ²)	Length(mm)	Vacuum tube DIA(mm)	Qty(pcs)	Volume (liters)	Gross wet(kg)	20GP/40GP/40HC loading qty(sets)
JDL-15-58/1.8	1.92	1800	58	15	135	49	0.52(56/115/132)
JDL-18-58/1.8	2.3	1800	58	18	156	58	0.62(47/96/111)
JDL-20-58/1.8	2.55	1800	58	20	172	65	0.68(43/88/102)
JDL-24-58/1.8	3.06	1800	58	24	206	76	0.79(37/76/88)
JDL-30-58/1.8	3.82	1800	58	30	260	92	0.97(30/62/71)

CHARACTERISTICS:

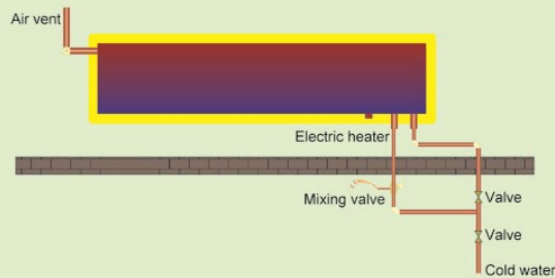
This type uses the all glass evacuated solar collector tubes as the heat-absorbing element. The high vacuum degree of the clearance between the outer and inner tube reduces the heat emission which is caused by convection and conduction. The layer films(coating) of the all glass evacuated tubes transfer the sun energy into heat energy. The high absorption and low emittance rate of Jiadele's layer films is unique. Depending on the different density between hot water and cold water, a water flowing cycle is created in the tube. Hot water flows automatically upwards while the cold water flows downward. The water in the storage tank will be heated from this natural circulation.

KEY SPECIFICATION:

- Inner tank: stainless steel SUS304-0.5mm
- Vacuum tube: AL-N/AL/58-1800
- Outer tank: Galvanized steel-0.4mm
- Frame: galvanized steel-1.5mm
- Insulation: Polyurethane
- Reflector: aluminum

REMARK:

- Solar heat storage tank diameter(mm): 360/460
- Thickness, insulated(mm):50
- Vent connection(inch):3/4
- Electric heater connection(inch):1
- Water connection(inch):3/4
- Collector angle(degree):20/45



AUTOMATICAL CONTROLLED NON-PRESSURIZED SOLAR WATER HEATER

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JDL-18-58/1.8	2.3	1800	58	18	156	58	0.62(47/96/111)
JDL-20-58/1.8	2.55	1800	58	20	172	65	0.68(43/88/102)
JDL-24-58/1.8	3.06	1800	58	24	206	76	0.79(37/76/88)
JDL-30-58/1.8	3.82	1800	58	30	260	92	0.97(30/62/71)

CHARACTERISTICS:

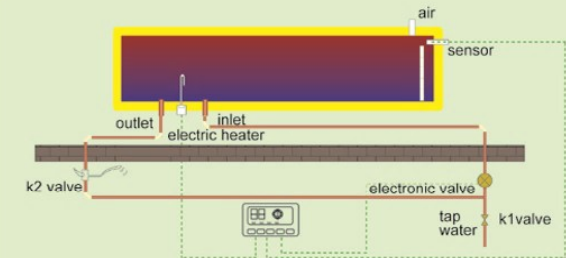
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KEY SPECIFICATION:

- Inner tank: stainless steel SUS304-0.5mm
- Vacuum tube: QB-AL-N/AL-47-1500
- Outer tank: stainless steel SUS201
- Frame: stainless steel SUS201-1.2mm
- Insulation: Polyurethane
- Reflector: stainless steel

REMARK:

- Solar heat storage tank diameter(mm): 310/410
- Thickness, insulated(mm):50
- Vent connection(inch):3/4
- Electric heater connection(inch):1
- Water connection(inch):3/4
- Collector angle(degree):30/45





COMPACT PRESSURIZED SOLAR WATER HEATER

CHARACTERISTICS:

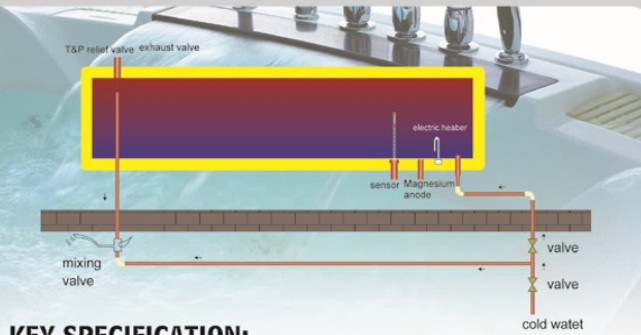
Work with high pressure. Therefore, the warm water comes out with pressure too. It uses the heat pipe to deliver heat energy, water is heated rapidly. Each tube can work alone, so it can work even if one tube is broken.

KEY SPECIFICATION:

- Inner tank: SUS 304-2B food grade stainless steel sheet, thickness: 1.2mm
- Outer tank: galvanized steel, thickness: 0.40mm
- Frame: galvanized sheet with electrostatic plastic coating, thickness: 1.5mm
- Vacuum tube: high boron silicon glass with aluminum/red copper/ stainless steel bloomed, ST=300;
- Insulation layer: Polyurethane, thickness: 55mm

REMARK:

- Solar heat storage tank diameter(mm): 370/480
- Thickness, insulated(mm):50
- Vent connection(inch):3/4
- Electric heater connection(inch):1.25
- Water connection(inch):3/4
- Collector angle(degree):20/45
- Test pressure(pa):0.9MPa
- Operating fluid ppressure(pa):0.6MPa
- Distance from tube to tube:90



KEY SPECIFICATION:

Type (One)	Area (M ²)	Vacuum tube			Volume Gross			20GP/40GP/40HC loading qty(sets)
		Length(mm)	DIA(mm)	Qty(pcs)	(liters)	wet(kg)		
JDL-HP15-58/1.8	2	1800	58	15	150	77	0.62(47/96/112)	
JDL-HP20-58/1.8	2.71	1800	58	20	200	98	0.79(37/76/88)	
JDL-HP25-58/1.8	3.24	1800	58	25	250	114	0.94(31/63/74)	
JDL-HP30-58/1.8	4.05	1800	58	30	300	136	1.12(26/53/62)	



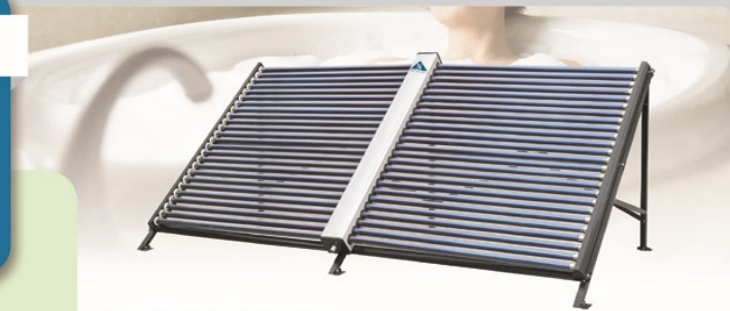
NON PRESSURIZED SOLAR COLLECTOR

CHARACTERISTICS:

All-glass vacuum tube solar collectors are widely used for its good thermal insulation performance, coating with high solar absorption rate and low emission rate, high heat efficiency etc. It is mainly composed of solar vacuum tube, manifold, tail bracket, seal components and so on. There are mainly two types such as single side vertical pipe arrangement and double sides horizontal pipe arrangement. The solar collector widely used in hotels, hospitals, schools, armies, factories and other places.

MATERIAL:

- Applicable to solar hot water supply/ swimming pool heating/house heating
- Operates automatically; telecommuting controlling
- All-day/time-lapse mode
- The design allows for versatile architectonic integration
- Any type of back up heating can be combined



KEY SPECIFICATION:

Type (One)	Area (M ²)	Vacuum tube			Gross wet(kg)	20GP/40GP/40HC loading qty(sets)
		Length(mm)	DIA(mm)	Qty(pcs)		
JDL-15-58/1.8	2	1800	58	15	53	0.23(121/260/300)
JDL-18-58/1.8	2.43	1800	58	18	58	0.27(103/220/255)
JDL-20-58/1.8	2.71	1800	58	20	69	0.29(96/206/237)
JDL-25-58/1.8	3.24	1800	58	24	83	0.35(80/170/195)
JDL-30-58/1.8	4.05	1800	58	30	109	0.42(66/142/164)
JDL-50-58/1.8	6.5	1800	58	50	172	0.65(43/92/106)





COMPACT FLAT SOLAR WATER HEATER (DIRECT TYPE)

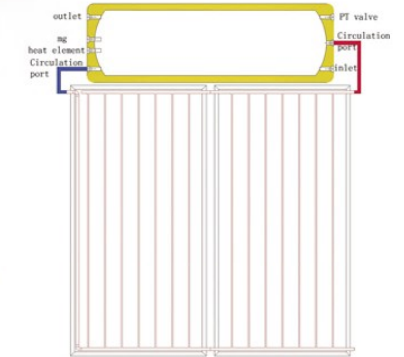


SYSTEM DESCRIPTION:

It is a direct system. The heat source mainly relies on the solar energy. Domestic water in the tank forms a direct circulation with the medium in the core passageway of the flat plate collector. The absorber coating of the collectors will absorb the sunlight, then convert sunlight into heat energy, and transfer the energy to the medium(water) in the core passageway through the absorber plate. While there will be a temperature difference in the medium(water) in the passageway, the density of hot water is smaller than that of the cold water, which will produce a buoyancy lift. In that way, the cold medium(water) flows to the bottom of the heat collector through the down pipe, while the hot medium(water) comes to the inner water tank through the upper pipe. Repeatedly, it heats all the water in the tank. Furthermore, the system has an electrical heater that can ensure sufficient hot water when in lack of sunlight due to continuous rainy days.

FEATURES:

- Stylish streamline design.
- Thermosiphon circulation with less maintenance.
- Reliable auxiliary electric element with temperature controller and manual overheat protector.
- SUS 304-2B stainless steel inner tank anticorrosion and long service life.
- High-efficient solar collector for optimum heat absorption.
- Direct system exchange, only suitable for no freeze area.



KEY SPECIFICATION:

	model	JDL-FPS/J150	JDL-FPS/J200	JDL-FPS/J300
Water tank	Circulation type		closed loop	
	Tank capacity	150L	200L	300L
	External dimension(mm)	Φ580x1000	Φ580x1250	Φ580x1820
	Outer tank material		Color coating galvanized steel	
	Heat exchanger material		SUS 304 Stainless steel/1.0mm	
	Heat exchanger area(m ²)	0.4	0.5	0.8
	Inner tank material		SUS 304 Stainless steel/1.2mm	
	Man working pressure		0.6Mpa	
	Man working pressure of jacket		0.3Mpa	
	Electric element		1.5KW	
Flat Solar Collector	Model No.	JDL-PG2.0	JDL-PG2.5	JDL-PG2.0
	Dimension(LxWxT)(mm)	2000x1000x80	2000x1250x80	2000x1000x80
	Total area	2.0m ² x1pcs	2.5m ² x1pcs	2.0m ² x2pcs
	Absorber material		Al. full plate	
	Absorber coating		Selective black chrome/ Blue coating	
	Header pipe		Red copper/Φ22x0.6	
	Riser pipe		Red copper/Φ10x0.5	
	Quantity of riser pipe	7 pcs	9 pcs	7pcs
	Welding		Laser welding	
	Cover material		Low iron tempered textured glass	
Mounting Bracket	Frame material		Anodised aluminium alloy	
	Insulation material		Fibre glass	
	Piping connector size		Φ22	
Connection & Controller	Material		Galvanized steel	
	Bracket style		A: Flat roof B: Sloping roof	
	Circulation pipe material		304 Stainless steel corrugated pipe3/4"	
	Connection fittings		Φ22mm x G3/4"	
	T/P pressure relief valve		0.7Mpa/90°C	
Weight	Jacket pressure relief valve		0.3Mpa/G1/2"	
	Controller (selective)		Automatical control of the electric element and monitor the water temperature	
	Weight (empty) (kg)	103	150	195
	Weight (filled) (kg)	253	350	495