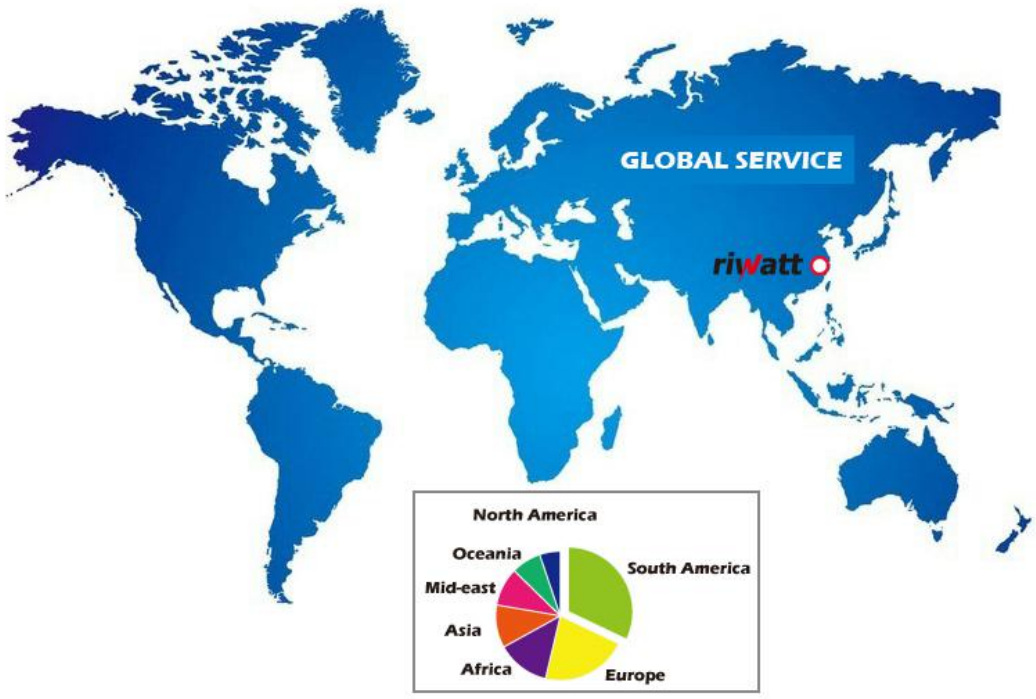
About Us

Riwatt Solar Co.,Ltd is a premier manufacturer of the world's finest maintenance free solar water heater to the public at very competitive prices, with an emphasis on professional innovation and quality, we have always put an emphasis on conducting business in an ethical, responsible, clear, and ecological way.

Riwatt value Innovation, Dedication and Superiority, and satisfy our customers by providing high-tech designs and features solar thermal products according to customers' needs. Improving the quality continuously and innovating forever. Our products have been approved by plenty of customers whom from around the world like America, Europe, Middle East, Asia and Australia.

Riwatt will incessantly offer noteworthy high quality solar thermal energy and professional service with the deep technical accumulation, reasonable human resource and farsighted strategy. We sincerely welcome you contact with us and do the mutual benefit business with each other in the near future!



riwatt Professional Innovation Quality

Content

Solar Swimming Pool System -WATTPOOL

How the riwatt WattPool System Works

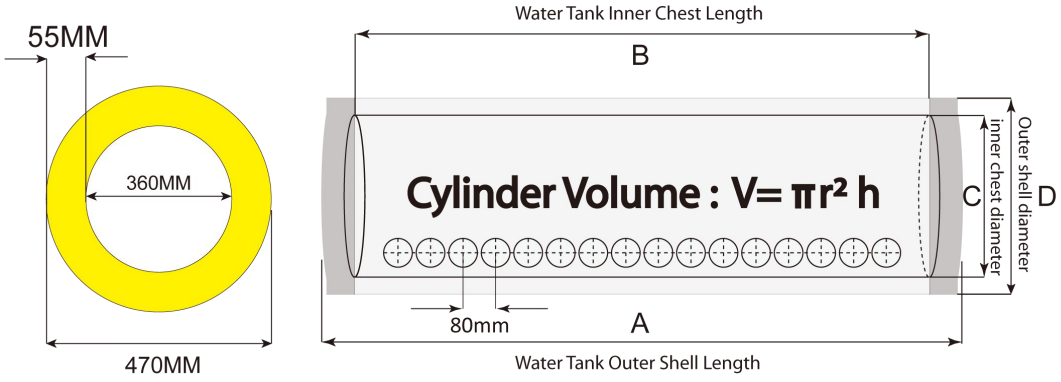
riwatt WattPool Solar panels (made of durable and hard-wearing EPDM) are fitted to the roof. Water from the pool is channeled through the panels and is heated by the sun's rays. The water is then returned to the pool by the existing pool pump. With such an efficient system temperatures between 22° C and 41° C are achieved. This system not only absorbs heat directly from the sun, but absorbs heat by conduction from your roof. In effect, the roof becomes part of the solar system.

1	Product Name	EPDM Swimming Pool Solar Collector
2	Model	【WATTPOOL】
3	Panel Size	【1.33*3 M】
4	Gross Area	【±4 M2】
5	Installation	Any Roof or Ground
6	Color	Black/
7	Application	Pool Heater
8	Type	Pressurized
9	Pipe Material	EPDM (NBR+PVC OPTIONAL)
10	Flow Rates(Recommended)	10L/min (Per Square Meters)
11	Collector Material	Polypropylene for Outdoor with UV Stable
12	Testing Pressure	30 PSI
13	Working Pressure	10 PSI
14	Temperature Resistant	From -20℃ to 115℃
15	Flexible	Rigid
16	Recommendation	Solar Area> 70% Pool Area
17	Carton Size	149×20×20 CM
18	Gross/Net Weight	14.5/15.5 KGS
19	Sample Package	Wood Box or Pallet
20	Warranty	5(FIVE) years
21	Accessories:	
22	Hook up Kits.	-
23	Solar Controller	110/220V
24	Sand Filter	-
25	Booster Pump	110/220V

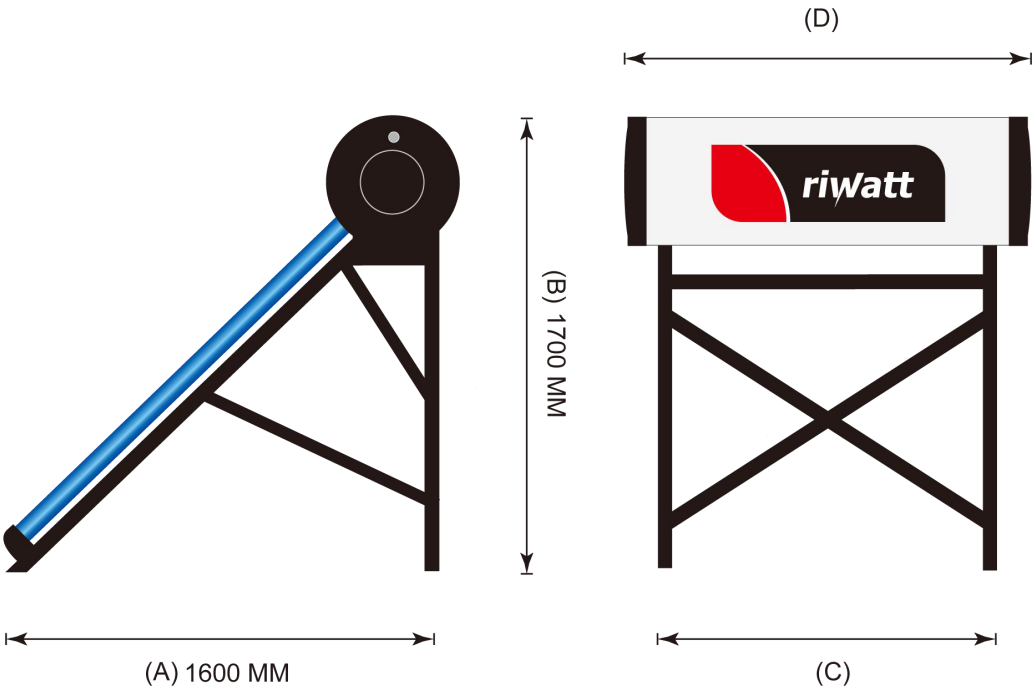

riwatt
Panel Solares
Valvula
Anti vacio
Sensor
Solar
Control
Válvula
Solar
Caldera
de gas
Sensor
de Agua
Filtro
Bomba
Alberca
WATTPOOL

Super Conductive Solar Water Heater -DVT
(-45℃~300℃)

MODEL	Vacuum Tube (DVT)		Capacity (L)			Absorber Area	Suitable for
	Pcs	Size(mm)	Tank	Tube	System	(M2)	(Persons)
DVT-10	10	58×1950	86	0	86	1.330	2~3
DVT-12	12	58×1950	103	0	103	1.596	3
DVT-15	15	58×1950	127	0	127	1.995	4
DVT-18	18	58×1950	152	0	152	2.394	5~6



MODEL	A	B	C	D
DVT-10	1600	1700	820	930
DVT-12	1600	1700	980	1100
DVT-15	1600	1700	1220	1340
DVT-18	1600	1700	1460	1580
PS.: 1~3cm tolerance might be existed, please note, unit: mm				



Water Tank	1	Material of Outer Tank Shell	High Quality Stainless Steel, 【SUS-304-2B/BA】
	2	Material of Inner Tank Chest	Food Grade SUS304-2B Stainless Steel
	3	Water Tank Diameter	【470/360 MM】
	4	Water Tank Insulating Layer	Imported Polyurethane, High Density,【55MM】
	5	Heat Preservation Period	72 Hours
	6	Tube to Tube Distance	80mm
Vacuum Tube	7	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	8	Glass Material	High Borosilicate 3.3 Glass
	9	Tube Size	【58*1950 MM】 【10/12/15/18 TUBES】
	10	Coating Material	Cu/SS-ALN(H)/SS-ALN (L)/ALN
Bracket	11	Bracket Material	【U-SHAPE Stainless Steel/Nver Rust Al.Alloy】
	12	Bracket Angle	【20°25°27°38°45°】
	13	Bolts & Nuts	Stainless Steel

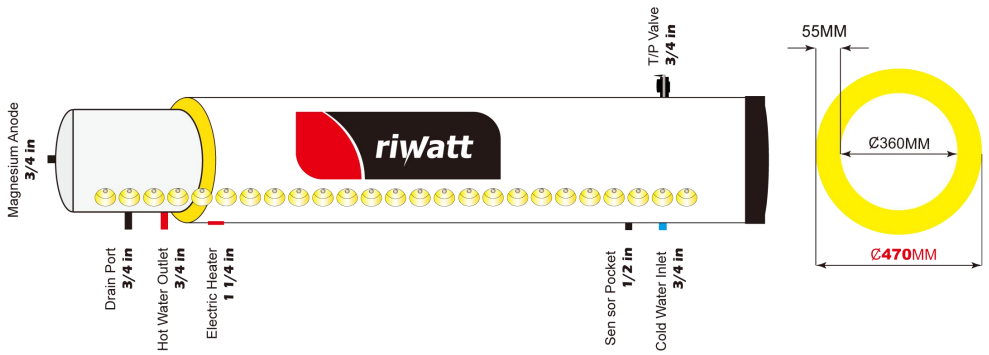
Dual Vacuum Super Conductive Solar Vacuum Tubes

DVT Vacuum Tubes Technical Parameter		
1	Structure	All-glass double-tube coaxial structure
2	Material	Borosilicate glass 3.3
3	Outer Tube Diameter	Φ47±0.7mm, thickness:1.6mm
		Φ58±0.7mm, thickness:1.6mm
4	Inner Tube Diameter	Φ37±0.7mm, thickness:1.8mm
		Φ47±0.7mm, thickness:1.8mm
5	Length	Φ47-1620mm Φ58-1950mm
6	Condensing Section Length	Φ47-1500mm = 120mm±5mm
		Φ58-1800mm = 150mm±5mm
7	Base Material	Cu/SS-AIN(H)/SS-AIN(L)
8	Deposition Method	Triple-target magnetic sputtering
9	Absorption Ratio(after Coating)	0.93-0.96(AM1.5)
10	Emission Ratio	0.04-0.06(80°C±5°C)
11	Vacuum between Inner Tube and Outer Tube	$P \leq 1.0 \times 10^{-3}$ (Pa)
12	Vacuum in Inner Tube	$P \leq 3.0 \times 10^{-3}$ (Pa)
13	Average Heat Loss Coefficient	U_{LT}= 0.4-0.6w/(m².°C)
14	Amount of Solar Radiation under Stagnation	H=3.7-4.2 MJ/m² (58mm)
		H=2.9-3.2MJ/ m² (47mm)

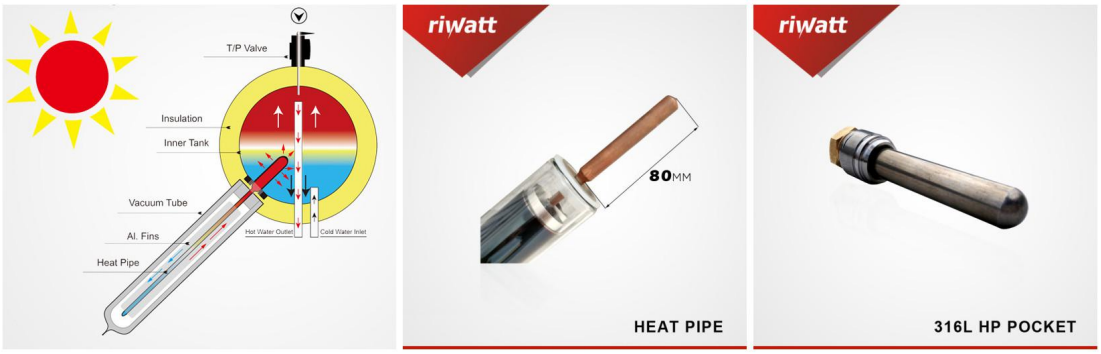
Compact Pressurized Solar Water Heater - WATTPRO

MODEL	Vacuum Tube		Capacity	Absorb er Area	Suitable for	Container Load(set)	
	Pcs	Size(mm)	Inner Tank(L)	(M2)	(Persons)	20'GP	40'HQ
WATTPRO-10	10	58×1800	100	1.330	3	58	142
WATTPRO-15	15	58×1800	140	1.995	4~5	49	118
WATTPRO-20	20	58×1800	180	2.660	6~7	37	89
WATTPRO-25	25	58×1800	215	3.325	9	28	69
WATTPRO-30	30	58×1800	255	3.990	10~11	25	62

	WattPro Solar Water Heater (Heat Pipe)		
Water Tank	1	Material of Outer Tank Shell	High Quality Stainless Steel Plate
	2	Material of Inner Tank Chest	Food Grade SUS304-2B SS/316L,1.0~1.5mm
	3	Water Tank Diameter	**【470/360 mm】**
	4	Water Tank Insulating Layer	High Density Polyurethane,**【55mm】**
Vacuum Tube	5	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	6	Glass Material	High Borosilicate 3.3 glass
	7	Tube Size	**58*1800**mm * **25** Tubes
	8	Coating Material	Cu/SS-ALN(H)/SS-ALN (L)/ALN
	9	Sediment Method	Tri-Element Magnetron Sputtering Plating
Heat Pipe	10	Heat Pipe Material	TU1 Copper
	11	Heat Pipe Condenser Size	【Ø14mm Diameter】 **【80mm** Length】
	12	Heat Pipe Body Size	Ø8mm Diameter
	13	Riwatt Heat Pipe Pocket	**【316L STAINLESS STEEL】**
Bracket	14	Bracket Material	Stronger Aluminum Alloy **【9CM Width】**
	15	Bracket Angle	**45°**
	16	Bolts & Nuts	Stainless Steel



Working Principle:



the vacuum tube absorb the solar ray and conduct the heat to heat-pipe (inside) by the aluminum slice, because the heat-pipe is connected with the copper connector which in the water tank, so there exists heat exchanging between the heat- pipe and copper connector, when the heat exchanging goes on, the water in the tank will be heated and become hot water.

Compact Pressurized Solar Water Heater - CORETEC

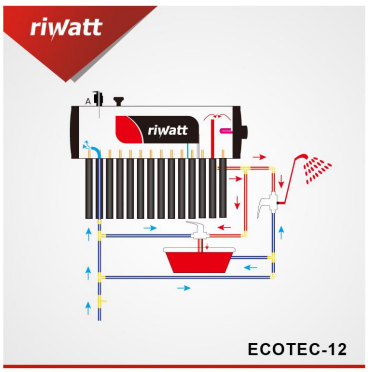
	Coretec Compact Heat Pipe Solar Water Heater (High Pressure)		
Water Tank	1	Material of Outer Tank Shell	Silver satin steel plate
	2	Material of Inner Tank Chest	Marine-grade 316 stainless steel,1.2 to 1.5mm
	3	Water Tank Diameters	**380mm/480mm**
	4	Water Tank Insulating Layer	Imported polyurethane,50mm thickness
	5	Heat Preservation Period	72~80 hours
	6	In-built 316 Stainless Steel Coil	20~30 meters, diameter: **16**mm (OPTIONAL)
Vacuum Tube	7	Tube Structure	All-glass double-tube co-axial structure
	8	Glass Material	High borosilicate 3.3 glass
	9	Tube Size	58*1800mm * **22** Tubes
	10	Outer Tube Dia. & Thickness	Ø58±0.7mm; Glass thickness 1.6±0.15mm
	11	Inner tube dia. & Thickness	Ø47±0.7mm; Glass thickness 1.6±0.15mm
Heat Pipe	12	Heat Pipe Material	TU1 copper
	13	Heat Pipe Condenser Size	Ø14mmdiameter,**80**mm length
	14	Heat Pipe Body Size	Ø8mm diameter
	15	Heat-Transfer-Fin	premium complete type (super model)
	16	Maximum Operation Pressure	**12** bar (175 psi)
	17	Heat pipe Condenser Pocket	**316L**
Bracket	18	Bracket Material	Stronger galvanized steel (**12cm** width)
	19	Bracket Angle	0°,12 °, 20, °27,30°, 38°, **45**°,60°
	20	Bolts & Nuts	Stainless steel

MODEL	Vacuum Tube		Capacity	Absorb er Area	Suitable for	Container Load(set)	
	Pcs	Size(mm)	Inner Tank(L)	(M2)	(Persons)	20'GP	40'HQ
CORETEC-22	22	58×1800	200	2.926	6	32	80
CORETEC-32	32	58×1800	300	4.265	8~9	22	55

Compact Pressurized Solar Heater - ECOTEC

MODEL	Vacuum Tube		Capacity (L)			Absorber Area	Suitable for
	Pcs	Size(mm)	Tank	Tube	System	(M2)	(Persons)
ECOTEC-12	10	58×1800	100	-	100+	1.596	2~3
ECOTEC-15	15	58×1800	120	-	120+	1.995	4
ECOTEC-18	18	58×1800	145	-	145+	2.394	5
ECOTEC-20	20	58×1800	160	-	160+	2.660	5~6
ECOTEC-24	24	58×1800	190	-	190+	3.192	7
ECOTEC-30	30	58×1800	235	-	235+	3.990	8~9

Water Tank	1	Material of Outer Tank Shell	High Quality SUS-304-2B/BA Stainless Steel
	2	Material of Inner Tank Chest	High Quality SUS-304-2BSS.1.2MM Thickness
	3	Water Tank Diameters	**【 470/360MM】**
	4	Water Tank Insulating Layer	Imported Polyurethane,【55MM Thickness】
	5	Heat Preservation Period	72~80 Hours
	6	Tube to Tube Distance	75MM
Vacuum Tube	7	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	8	Glass Material	High Borosilicate 3.3 Glass
	9	Tube Size	58*1800MM * 【**12** Tubes】
	10	Outer Tube Dia. & Thickness	Ø58±0.7mm; Glass Thickness 1.6±0.15mm
	11	Inner tube dia. & Thickness	Ø47±0.7mm; Glass Thickness 1.6±0.15mm
Heat Pipe	12	Heat Pipe Material	TU1 Copper
	13	Heat Pipe Condenser Size	Ø14mm Diameter,【**80MM**】 Length
	14	Heat Pipe Body Size	Ø8mm Diameter
	15	Heat-Transfer-Fin	Premium Complete Type (Super Model)
	16	Maximum Operation Pressure	**【1.2Mpa】**
	17	Heat pipe Condenser Pocket	**【316L】**
Bracket	18	Bracket Material	Stronger【Aluminum Alloy】
	19	Bracket Angle	**【25°】**
	20	Bolts & Nuts	Stainless Steel

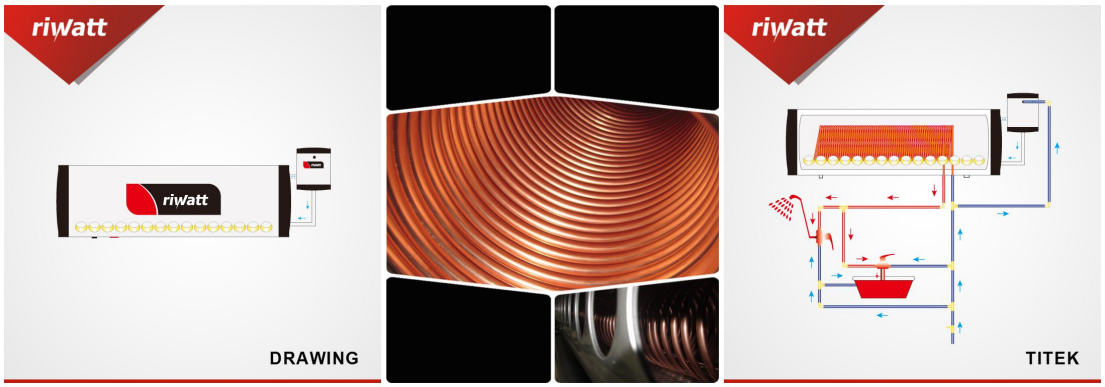


Compact Pressurized Solar Water Heater - PROFUN

	1	Model	**【PROFUN-12/150L】**
	2	Water Tank Capacity	**150 L**
	3	Vacuum Tube Capacity	12 × 0 L = **0 L**
	4	System Capacity	150 L+ 0 L **= 150 L**
	5	Absorb Area	**1.596 M^2**
Water Tank	6	Material of Outer Tank Shell	Silver Satin Steel Plate
	7	Material of Inner Tank Chest	SUS304-2B SS.,1.0~1.5mm Thickness
	8	Water Tank Diameter	**【500/420 mm】** OR【480/380 mm】
	9	Water Tank Insulating Layer	High Density Polyurethane,**40mm** OR 50mm
Vacuum Tube	10	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	11	Glass Material	High Borosilicate 3.3 glass
	12	Tube Size	**58*1800**mm * **12** Tubes
	13	Coating Material	CU/SS-ALN(H)/SS-ALN(L)/ALN
	14	Sediment Method	Tri-Element Magnetron Sputtering Plating
	15	Absorb Ratio	> 96% (AM 1.5)
	16	Thermal Emissivity	≤ 6 % / (80°C)
Heat Pipe	17	Heat Pipe Material	TU1 Copper
	18	Heat Pipe Condenser Size	【Ø14mm Diameter】【80mm Length】
	19	Heat Pipe Body Size	Ø8mm Diameter
	20	Riwatt Heat Pipe Pocket	【316 Stainless Steel】
	21	Heat-Transfer-Fins	Premium Complete Type (Super Model)
	22	Max.Working Temp	-37 ~250C
	23	Start-up Temp. of Heat Pipe	<=30C
Bracket	24	Bracket Material	Stronger ADJUSTABLE GALVANIZED STEEL
	25	Bracket Angle	**27°**
	26	Bolts & Nuts	Stainless Steel

Pre-Heated Solar Water Heater TITEK

MODEL	Vacuum Tube		Capacity	Absorb er Area	Coil Length	Suitable for	Container Load(set)
	Pcs	Size(mm)	Inner Tank(L)	(M2)	(Meters)	(Persons)	40'HQ
TITEK-15	15	58×1800	125	1.995	20	4	123
TITEK-20	20	58×1800	165	2.660	25	5~6	94
TITEK-24	24	58×1800	200	3.192	30	7	76
TITEK-30	30	58×1800	250	3.990	35	8	61



	1	Material of outer tank shell	Silver satin steel plate/color painted steel
	2	Material of inner tank chest	Food-grade SUS-304-2B,0.41 to 0.8mm
	3	Water Tank diameters	**360mm/470mm**
	4	Water tank insulating layer	Imported polyurethane,55mm thickness
	5	Tube to tube distance	80mm
Heat Exchanger	6	Material	High Quality Copper Coil
	7	Size	12/16mm (OPTIONAL)
	8	Coil length	20~ 35 meters
Vacuum Tube	9	Tube structure	All-glass double-tube co-axial structure
	10	Glass material	High borosilicate 3.3 glass
	11	Tube size	58*1800mm * **15,20,24,30** Tubes
Bracket	12	Bracket material	Stronger galvanized steel (**10cm** width)
	13	Bracket angle	**38°, 45°**
Accessories	14	Electric heat element	1", 1 1 /4",1 1 /2" or customized
	15	Assistant tank	3L / 5 L

Primary Solar Thermal Collector - PRIWATT

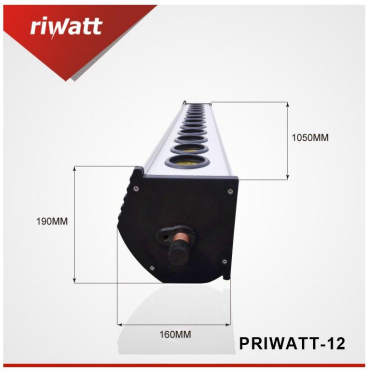
MODEL	Vacuum Tubes			Unit CBM	Container Loading (set)		
	Outer Diameter	Length	Tube Pieces		20'GP	40'GP	40HQ
PRIWATT-12	58mm	1800mm	12	0.19	145	300	351
PRIWATT-15	58mm	1800mm	15	0.23	120	249	292
PRIWATT-20	58mm	1800mm	20	0.30	94	194	228
PRIWATT-25	58mm	1800mm	25	0.36	77	159	186
PRIWATT-30	58mm	1800mm	30	0.44	64	133	156

PRIWATT PRIME SOLAR COLLECTOR	
Model	PRIWATT-12
Insulation Material	【50MM ROCK WOOL】, HIGH DENSITY, GOLDEN COLOR
Bracket/Structure	【AL. ALLOY,3.0 thickness】【ADJUSTABLE BRACKET】
Header Pipe Diameters	【45mm】
Heat pipe Condenser	【24mm】【NICKLE-PLATED TYPE】

Heat Pipe Data Sheet	
Heat Pipe Material	Pure copper & lead free, 45% silver brazing
Condenser Dimensions	Top: Ø24mm *70mm，Body: Ø8*0.7mm.length:1700± 10mm
Heat-Transfer-Fins	0.3mm thickness Aluminum fins
Maximum Testing Pressure	1.2 Mpa

Manifold Data Sheet	
Manifold Header Pipe	TU2 copper
Manifold Casing	Anodized aluminum alloy (6063-T5/T6)
Insulation Layer	Compressed rock wool.

Bracket Data Sheet	
Bracket	Stronger **ADJUSTABLE** aluminum alloy bracket.
Vertical Installation Angle	Flat & pitched roof



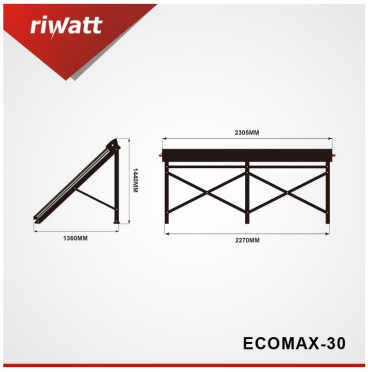
Solar Thermal Collector - EXOMAX-SERIAL

Model	Vacuum Tubes			Unit CBM	Container Loading (set)			FOB/SHANGHAI
	Outer diameter	Length	Tube Pieces		20'GP	40'GP	40'HQ	
ECOMAX-15	58mm	1800mm	15	0.23	126	257	300	-
ECOMAX-18	58mm	1800mm	18	0.26	111	227	265	-
ECOMAX-20	58mm	1800mm	20	0.29	97	200	234	-
ECOMAX-24	58mm	1800mm	24	0.32	85	175	205	-
ECOMAX-30	58mm	1800mm	30	0.42	67	138	162	-

Model	ECOMAX-15/18/20/24/30
Manifold header pipe material	TP2 copper, Ø35*0.8mm
Outer shell material of manifold	Anodized aluminum alloy
Frame	Stronger AL.ALLOY,2.0mm,45 ° flat roof
Heat pipe	Pure cooper & lead free, condenser:Ø24mm,body:Ø70mm
Insulation layer	High density rock wool
Rubber Seals and rubber Rings	HTV grade silicone rubber
Maximum Operating Pressure	12 bar (175 psi)
Vacuum tube	Glass vacuum tube with anti-frozen copper heat pipe
Tube structure	All-glass double deck co-axial structure
Tube dimension:	58*1800mm×15/18/20/24/30 tubes
Manifold Plumbing Connections	22mm transfer to 3/4''
Stagnation Temperature	Approx. 230°C (446°F)
Daily efficiency	~55% (~42% in winter)
Hailstone resistance	Diameters of less than 25mm (1 inch)
Heat pipe anti-freezing	-37°C (-98.6°F)
Life span	Approximate to 15~25 years

Solar Collector Technical Date Sheet					
Model name	ECOMAX-15	ECOMAX-18	ECOMAX-20	ECOMAX-24	ECOMAX-30
Number of tubes	15	18	20	24	30
Gross area (m2)	2.451	2.915	3.224	3.482	4.769
Aperture area (m2)	1.405	1.686	1.874	2.248	2.811
Absorber area (m2)	1.995	2.394	2.660	3.192	3.990
Weight empty (KG)	53	63	70	84	105
Fluid volume(L)	0.9	1.1	1.2	1.4	1.7
Test flow rate (ml/s. m2)	450	379	342	287	232

Heat transfer medium	pure water/glycol	pure water/glycol	pure water/glycol	pure water/glycol	pure water/glycol
Working pressure	6bar	6 bar	6 bar	6 bar	6 bar
Max testing pressure	12bar	12 bar	12 bar	12 bar	12 bar
Peak efficiency n°	0.795	0.795	0.795	0.795	0.795
Inlet/outlet connection	Φ22mm or 3/4''	Φ22mm or 3/4''	Φ22mm or 3/4''	Φ22mm or 3/4''	Φ22mm or 3/4''



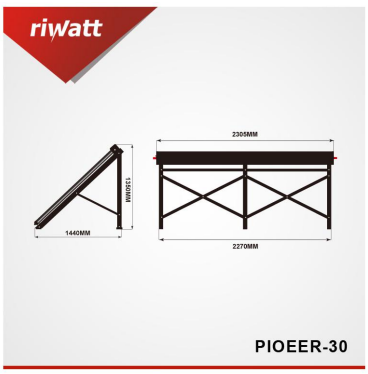
Solar Thermal Collector - PIOEER

Model	Vacuum Tubes			Unit CBM	Container Loading (Set)		
	Outer Diameters	Length	Tube Pieces		20'GP	40'GP	40HQ
PIOEER-15	58mm	1800mm	15	0.23	126	257	300
PIOEER-18	58mm	1800mm	18	0.26	111	227	265
PIOEER-20	58mm	1800mm	20	0.29	97	200	234
PIOEER-24	58mm	1800mm	24	0.32	85	175	205
PIOEER-30	58mm	1800mm	30	0.42	67	138	162

Model	PIOEER-15/18/20/24/30
Manifold header pipe material	TP2 copper
Outer shell material of manifold	Anodized aluminum alloy
Frame	Stronger GALVANIZED STEEL 1.5mm,45 ° flat roof or slope roof.
Heat pipe	Pure cooper & lead free, condenser:Ø14mm,body:Ø70mm
Insulation layer	High density rock wool
Rubber Seals and rubber Rings	HTV grade silicone rubber
Maximum Operating Pressure	12 bar (175 psi)
Vacuum tube	Glass vacuum tube with anti-frozen copper heat pipe
Tube structure	All-glass double deck co-axial structure
Tube dimension:	58*1800mm×15/18/20/24/30 tubes
Manifold Plumbing Connections	22mm transfer to 3/4''
Stagnation Temperature	Approx. 230°C (446°F)

Daily efficiency	~55% (~42% in winter)
Hailstone resistance	Diameters of less than 25mm (1 inch)
Heat pipe anti-freezing	-37°C (-98.6°F)
Life span	Approximate to 15~25 years

Pioeer Solar Collector Technical Date Sheet					
Model Name	PIOEER-15	PIOEER-18	PIOEER-20	PIOEER-24	PIOEER-30
Number of Tubes	15	18	20	24	30
Gross Area (m2)	2.451	2.915	3.224	3.482	4.769
Aperture Area (m2)	1.405	1.686	1.874	2.248	2.811
Absorber Area (m2)	1.995	2.394	2.660	3.192	3.990
Fluid Volume(L)	0.9	1.1	1.2	1.4	1.7
Test Flow Rate (ml/s. m2)	450	379	342	287	232
Heat Transfer Medium	pure water/glycol	pure water/glycol	pure water/glycol	pure water/glycol	pure water/glycol
Max. Working Pressure	6bar	6 bar	6 bar	6 bar	6 bar
Max Testing Pressure	12bar	12 bar	12 bar	12 bar	12 bar
Stagnation Temperature	280°C	280°C	280°C	280°C	280°C
Peak Efficiency n°	0.795	0.795	0.795	0.795	0.795
Inlet/Outlet Connection	Φ22mm OR 3/4''	Φ22mm OR 3/4''	Φ22mm OR 3/4''	Φ22mm OR 3/4''	Φ22mm OR 3/4''



U-Pipe Solar Thermal Collector -ENFUN

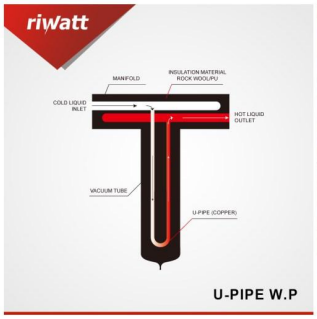
Model	Solar Vacuum Tube		Absorb er Area	Manifold Packing size	Vacuum Tube Packing size	Container Loading Qty/sets	
	Size/mm	Qty/PCS	M2	CM	CM	20'GP	40'HQ
ENFUN-10	58*1800	10	1.330	198×92×18.5	187×34×16	63	154
ENFUN-12	58*1800	12	1.596	198×107×18.5	187×27×24	54	131
ENFUN-15	58*1800	15	1.995	198×130×18.5	187×34×24	44	107

U-Pipe Data Sheet	
U-Pipe Material	Oxygen free copper (TU1),Cu=Ag>99.99%($o_{2<16ppm}$)
Inner manifold material	TP2 copper, Ø22*0.8mm
Heat-Transfer-Fins	0.3mm/0.0098'' thick sets of Aluminum fins,1630mm
Maximum Operation Pressure	0.7 Mpa
Maximum Testing Pressure	1.2 Mpa (175 psi)

Manifold Data Sheet	
Manifold Header Pipe	TU2 copper
Manifold Casing	Anodized aluminum alloy (6063-T5/T6)
Insulation Layer	Compressed rock wool (HIGH DENSITY,GOLDEN COLOR).

Bracket Data Sheet	
Bracket	1.5mm galvanized steel OR aluminum alloy bracket.
Installation Angle	Flat & pitched roof 【30/45/50/60/70】

Related Components Data Sheet	
58 dia. Anti Dust Rubber Ring	Cymene ethylene silicon rubber(110)
58 dia. White Inner Stopper of Heat Pipe	Cymene ethylene silicon rubber(110)
58 Dia. Tube Holder	Nylon 1013-(B)
End Cover for Manifold	Nylon 1013-(B)



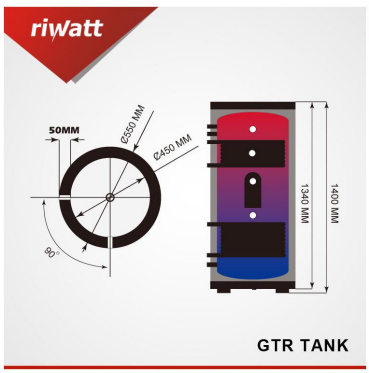
Flat Plate Solar Collector - SUNBLUE-2.0/2.5

ITEMS	SUNBLUE-2.5	SUNBLUE--2.0
Riser Pipe Type	GRID	
Length×Width×Height (mm)	2000×**1250**×80	2000×**1000**×80
Header Pipe Material and Qty.	Copper TP2, Ø22 mm (2 pipe)	
Riser Pipe Material and Qty.	Copper TP2,Ø8 mm (**9** pipes)	Copper TP2,Ø8 mm (**7** pipes)
Gross Area (m^2)	2.5	2.0
Absorb er Area(m^2)	2.27	1.82
Net Weight(kgs)	35	30
Liquid Capacity(ltr)	1.53	1.23
Surface Treatment	Sputtering (Blue Titanium Absorber) (Bluetec)	
Absorb er Plate Material	Aluminum Board	
Absorptivity	≥95% ±2%	
Emissivity	≤5% ±2%	
Frame Material	6063 T5 Aluminum Profile,Thickness : 1.2mm	
Back Plate	Galvanized Steel	
Insulation Material & Thickness & Density	Fiber Glass 30mm,Density:36g/m3	
Transparent Cover	Super White Low Iron Embossed Tempered Glass ,δ3.2mm,Light Transmission ≥ 91.5%	
Instant Thermal Efficiency(η)	0.79	0.77
Heat Transmission Medium	70% Propylene Glycol+30% Pure Water	
Test Pressure(Mpa)	1.2 Mpa , and Keep 15 Minutes	
Working Pressure(Mpa)	0.7	
Advising Flow Rate(L/H- m^2)	70～80	
Heat Loss Coefficient a1* (w/ m^2·℃)	3.25	5.00
Collector Stuffy Temperature(℃)	190	180
The Series Group Number (pcs)	≦8	

Pressurized Water Storage Tank - GTR

MODEL	Inner Tank		Insulation Layer	Outer Tank		Coil Length			Tank Height
	Inner Dia. (mm)	Thickness (mm)	Thickness (mm)	Out Dia. (mm)	Thickness (mm)	Single Coil (m)	Dual Coil (m)		mm
							Lower	Upper	
GTR-80L	320	1.0	50	320	0.5	15	10	8	825
GTR-150L	360	1.2	55	470	0.5	20	15	10	1450
GTR-200L	450	1.5	50	550	0.5	20	15	10	1340
GTR-300L	480	1.5	50	580	0.5	25	18	12	1700
GTR-400L	580	2.0	60	700	0.5	30	20	15	1560
GTR-500L	580	2.0	60	700	0.5	35	25	15	1890
GTR-600L	580	2.0	60	700	0.5	35	25	15	2176
GTR-700L	580	2.0	60	700	0.5	40	28	17	2476
GTR-800L	800	2.5	100	1000	0.5	45	30	20	1860
GTR-1000L	800	2.5	100	1000	0.5	50	35	25	2100

GTR-SERIAL WATER TANK SPECIFIATION				
Insulation Layer	High-Density Polyurethane Foamed			
Inner Tank Material	Food Grade SUS 304-2B			
Outer Tank material	High Quality Color Painted Steel			
Inbuilt Heat Exchanger	Stainless Steel or Copper (Size: Ø:12,16,19,25mm)			
Drain Port	3/4" Female NPT (Bottom of Tank)			
T/P Port (Exhaust Port)	3/4" Female			
Packing Size(mm)	GTR-80L	930×560×560	GTR-500L	1980×780×780
	GTR-150L	1520×560×560	GTR-600L	2280×780×780
	GTR-200L	1480×640×640	GTR-700L	2580×780×780
	GTR-300L	1800×680×680	GTR-800L	2000×1100×1100
	GTR-400L	1700×780×780	GTR-1000L	2300×1100×1100



Working Station - SR881

SR881 Working Station	
◎Timing heating	◎Pump interval functions.
◎Temperature difference control 1*ΔT	◎High temperature by-pass function
◎Collector emergency shutdown	◎Manual Control(for 2 outputs: P1H1)
◎Collector cooling function	◎Password setting
◎Collector low temperature protection	◎Recovery to factory setting
◎Collector frost protection	◎Holiday function
◎Tank re-cooling function	◎Manual Heating
◎Celsius and Fahrenheit temperature switch	◎Temperature query function
◎Maximum temperature of tank(max.number 1)	◎Memory Protection
◎Anti-Legionella function	◎Screen protection
◎Temperature controlled hot water circulation pump	◎Trouble shooting
◎RPM speed controlling(1*semiconductor)	◎Trouble protection
◎Thermal energy measuring	◎Trouble checking

Expansion Vessel - EXV

Expansion Vessel							
Model	**EXV-5V**	**EXV-8V**	**EXV-12V**	**EXV-18V**	**EXV-24V**	**EXV-35V**	**EXV-50V**
Capacity	5L	8L	12L	18L	24L	35L	50L
Diameter	150	200	240	300	300	350	350
Height	290	330	310	370	430	450	760
Pre-Charged Pressure (bar)	1	2	1	1.5	1.5	1	2
Max Pressure (bar)	8	10	10	10	10	10	10
Max Temperature	99℃	99℃	99℃	99℃	99℃	99℃	99℃
Connection	3/4''	3/4''	3/4''	3/4''	3/4''	3/4''	3/4''

Split Pressurized Solar Water Heater -ANYSUN

150L/200L/ 300L/ 500L/600L/700L/800L/1000L Split Pressurized Solar Water Heater - DUAL (2) COILS HEAT EXCHANGER					
MODEL:	Solar Collector	Double(2) Coils Water Tank	Working Station	Expansion Vessel	FOB/SHANG HAI
ANYSUN-150L	1×PIOEER-18=18 Tubes	GTR-150L(15+10M)	1×SR881(220V/50HZ)	1×EXV-8V	-
ANYSUN-200L A	1×PIOEER-20=20 Tubes	GTR-200L(15+10M)	1×SR881(220V/50HZ)	1×EXV-12V	-
ANYSUN-200L B	1×PIOEER-24=24 Tubes	GTR-200L(15+10M)	1×SR881(220V/50HZ)	1×EXV-12V	-
ANYSUN-300L A	1×PIOEER-30=30 Tubes	GTR-300L(18+12M)	1×SR881(220V/50HZ)	1×EXV-18V	-
ANYSUN-300L B	2×PIOEER-18=36 Tubes	GTR-300L(18+12M)	1×SR881(220V/50HZ)	1×EXV-18V	-
ANYSUN-400L	2×PIOEER-24=48 Tubes	GTR-400L(20+15M)	1×SR881(220V/50HZ)	1×EXV-24V	-
ANYSUN-500L	2×PIOEER-30=60 Tubes	GTR-500L(25+15M)	1×SR881(220V/50HZ)	1×EXV-24V	-
ANYSUN-600L	3×PIOEER-24=72 Tubes	GTR-600L(25+15M)	1×SR881(220V/50HZ)	1×EXV-24V	-
ANYSUN-700L	4×PIOEER-20=80 Tubes	GTR-700L(28+17M)	1×SR881(220V/50HZ)	1×EXV-35V	-
ANYSUN-800L	4×PIOEER-24=96 Tubes	GTR-800L(30+20M)	1×SR881(220V/50HZ)	1×EXV-35V	-
ANYSUN-1000L	4×PIOEER-30=120 Tubes	GTR-1000L(35+25M)	1×SR881(220V/50HZ)	1×EXV-50V	-

Split Pressurized Solar Water Heater -ECOSUN

150L/200L/ 300L/ 500L/600L/700L/800L/1000L Split Pressurized Solar Water Heater - DUAL (2) COILS HEAT EXCHANGER					
MODEL:	Solar Collector	Double(2) Coils Water Tank	Working Station	Expansion Vessel	FOB/SHANG HAI
ECOSUN-150L	1×ECOMAX-18=18 Tubes	GTR-150L(15+10M)	1×SR881(220V/50HZ)	1×EXV-8L	-
ECOSUN-200L A	1×ECOMAX-20=20 Tubes	GTR-200L(15+10M)	1×SR881(220V/50HZ)	1×EXV-12L	-
ECOSUN-200L B	1×ECOMAX-24=24 Tubes	GTR-200L(15+10M)	1×SR881(220V/50HZ)	1×EXV-12L	-
ECOSUN-300L A	1×ECOMAX-30=30 Tubes	GTR-300L(18+12M)	1×SR881(220V/50HZ)	1×EXV-18L	-
ECOSUN-300L B	2×ECOMAX-18=36 Tubes	GTR-300L(18+12M)	1×SR881(220V/50HZ)	1×EXV-18L	-
ECOSUN-400L	2×ECOMAX-24=48 Tubes	GTR-400L(20+15M)	1×SR881(220V/50HZ)	1×EXV-24L	-
ECOSUN-500L	2×ECOMAX-30=60 Tubes	GTR-500L(25+15M)	1×SR881(220V/50HZ)	1×EXV-24L	-
ECOSUN-600L	3×ECOMAX-24=72 Tubes	GTR-600L(25+15M)	1×SR881(220V/50HZ)	1×EXV-24L	-
ECOSUN-700L	4×ECOMAX-20=80 Tubes	GTR-700L(28+17M)	1×SR881(220V/50HZ)	1×EXV-35L	-
ECOSUN-800L	4×ECOMAX-24=96 Tubes	GTR-800L(30+20M)	1×SR881(220V/50HZ)	1×EXV-35L	-
ECOSUN-1000L	4×ECOMAX-30=120 Tubes	GTR-1000L(35+25M)	1×SR881(220V/50HZ)	1×EXV-50L	-

Split Pressurized Solar Water Heater -SUNBLUE

80L/150L/200L/ 300L/400L/500L/600L/700L/800L/1000L Split Pressurized Solar Water Heater - **DUAL (2) COILS HEAT EXCHANGER**					
MODEL:	Flat Plate Solar Collector	Double(2) Coils Water Tank	Working Station	Expansion Vessel	Recommend for (Person)
SUNBLUE-80L	1×SUNBLUE-2.0	GTR-80L(10+8M)	1×SR881(220V/50HZ)	1×EXV-8V	3
SUNBLUE-150L	1×SUNBLUE-2.5	GTR-150L(15+10M)	1×SR881(220V/50HZ)	1×EXV-8V	3~4
SUNBLUE-200L	2×SUNBLUE-2.0	GTR-200L(15+10M)	1×SR881(220V/50HZ)	1×EXV-12V	4~5
SUNBLUE-300L-A	2×SUNBLUE-2.5	GTR-300L(18+12M)	1×SR881(220V/50HZ)	1×EXV-18V	7~8
SUNBLUE-300L-B	3×SUNBLUE-2.0	GTR-300L(18+12M)	1×SR881(220V/50HZ)	1×EXV-18V	8
SUNBLUE-400L	3×SUNBLUE-2.5	GTR-400L(20+15M)	1×SR881(220V/50HZ)	1×EXV-18V	10
SUNBLUE-500L	5×SUNBLUE-2.0	GTR-500L(25+15M)	1×SR881(220V/50HZ)	1×EXV-24V	11~13
SUNBLUE-600L	6×SUNBLUE-2.0	GTR-600L(25+15M)	1×SR881(220V/50HZ)	1×EXV-24V	13~15
SUNBLUE-700L	7×SUNBLUE-2.0	GTR-700L(28+17M)	1×SR881(220V/50HZ)	1×EXV-35V	16
SUNBLUE-800L	7×SUNBLUE-2.5	GTR-800L(30+20M)	1×SR881(220V/50HZ)	1×EXV-35V	17~18
SUNBLUE-1000L-A	8×SUNBLUE-2.0	GTR-1000L(35+25M)	1×SR881(220V/50HZ)	1×EXV-50V	20
SUNBLUE-1000L-B	8×SUNBLUE-2.5	GTR-1000L(35+25M)	1×SR881(220V/50HZ)	1×EXV-50V	20~22

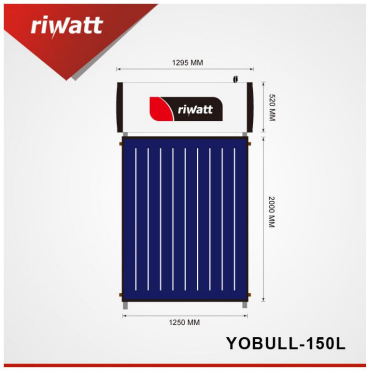
Split Pressurized Solar Water Heater - SPR

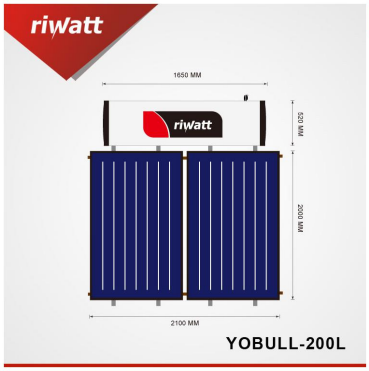
120L/160L Split Pressurized Solar Water Heater - DOUBLE (2) COILS HEAT EXCHANGER				
MODEL:	**Solar Collector**	**THREE(3) Coils Water Tank**	**Working Station**	**Expansion Vessel**
SPR-120L	1×PRIWATT-15=15 Tubes	STR-120L(12+8=20M)	1×CMR (220V/50HZ)	1×R8008241CN
SPR-160L	1×PRIWATT-20=20 Tubes	STR-160L(12+10=22M)		1×R8012241CN

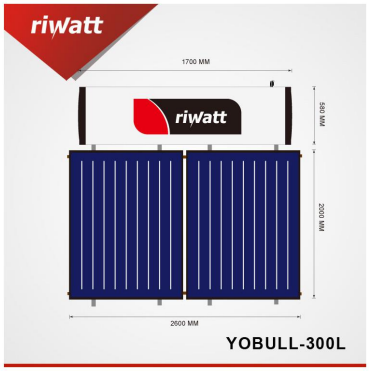
200 200L/300L/400L/500L Split Pressurized Solar Water Heater - THREE (3) COILS HEAT EXCHANGERL				
MODEL:	**Solar Collector**	**THREE(3) Coils Water Tank**	**Working Station**	**Expansion Vessel**
SPR-200L	2×PRIWATT-12=24 Tubes	STR-200L(30+15+10=55M)	1×CMR (220V/50HZ)	1×R8012241CN
SPR-**300L-A**	1×PRIWATT-30=30 Tubes	STR-300L(35+18+12=65M)		1×R8018241
SPR-**300L-B**	3×PRIWATT-12=36 Tubes	STR-300L(35+18+12=65M)		1×R8018241
SPR-400L	4×PRIWATT-12=48 Tubes	STR-400L(50+20+15=95M)		1×R8025241
SPR-500L	5×PRIWATT-12=60 Tubes	STR-500L(35+18+12=100M)		1×R8025241

Compact Pressurized Flat Plate Solar Water - YOBULL

Flat Panel Solar Water Heater (High Pressure, WITHOUT Jacket)			
MODEL NO.	**YOBULL-150L**	**YOBULL-200L**	**YOBULL-300L**
Water Tank			
Capacity of Tank	**150L**	**200L**	**300L**
Water Tank Type	**【PRESSURIZED WATER TANK, WITHOUT JACKET】**		
Water Tank Dia.	**Φ520/420mm**	**Φ520/420mm**	**Φ580/480mm**
Material of Outer Tank	Zinc-Coated Color Painted Board	Zinc-Coated Color Painted Board	Zinc-Coated Color Painted Board
Material of Inner Tank	Stainless Steel SUS304 1.2mm	Stainless Steel SUS304 1.2mm	Stainless Steel SUS304 1.2mm
Thermal Insulation	Polyurethane*50mm	Polyurethane*50mm	Polyurethane*50mm
Rated Working Pressure	0.7Mpa		
Flat Panel Collector			
Solar Collector Model	SUNBLUE-2.5	SUNBLUE-2.0	SUNBLUE-2.5
Collector Dimension(L*W*T)	2000*1250*80mm	2000*1000*80mm *2pcs	2000*1250*80mm*2pcs
'Gross Area	2.50 m2	2 * 2.00 m2	2 * 2.50 m2
Absorber Area	2.27 m2	2 * 1.82 m2	2 * 2.27 m2
Cover Material	3.2mm Low Iron Tempered Glass;Transmittance ≧91%		
Coating	**【BLUE SPUTTERING(BLUETEC) on copper fins】**		
Insulation Material	High Density Rock Wool		
Absorptivity	≥95%±2%,Emittance		
Emissivity	5% ±2%		
Max.Working Pressure	0.7Mpa		
Material of Frame	Aluminum Alloy, δ1.3mm, Multiple Color		
Material of Back Plate	Galvanized Steel		
Bracket	INCLINED ROOF OR FLAT ROOF MOUNTED		
Material	Galvanized Steel - 0-45° (AL.ALLOY OPTIONAL, PLEASE NOTE)		
Container Load(40'HQ)	93 SETS	68 SETS	50 SETS



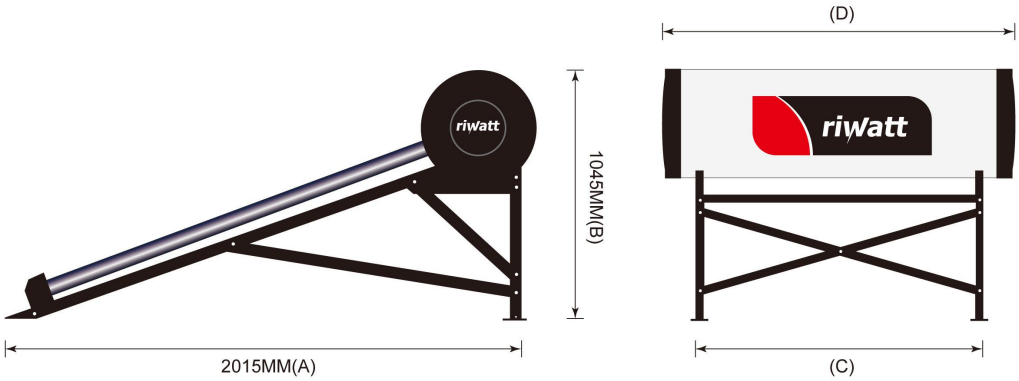




Compact Non Pressure Solar Water Heater - SISOL

MODEL	Vacuum Tube		Capacity (L)			Absorber Area	Suitable for
	Pcs	Size(mm)	Tank	Tube	System	(M2)	(Persons)
SISOL-8	8	58×1800	69	24	93	1.064	1~2
SISOL-10	10	58×1800	86	30	116	1.330	2
SISOL-12	12	58×1800	103	36	139	1.596	4
SISOL-15	15	58×1800	127	45	172	1.995	5
SISOL-18	18	58×1800	152	54	206	2.394	7
SISOL-20	20	58×1800	168	60	228	2.660	8
SISOL-24	24	58×1800	201	72	273	3.192	9
SISOL-30	30	58×1800	249	90	339	3.990	11

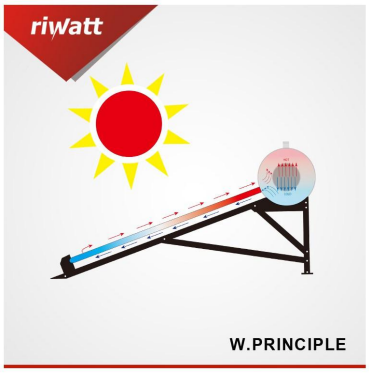
MODEL	A	B	C	D
SISOL-8	2015	1045	66	77
SISOL-10	2015	1045	82	93
SISOL-12	2015	1045	98	110
SISOL-15	2015	1045	122	134
SISOL-18	2015	1045	146	158
SISOL-20	2015	1045	162	174
SISOL-24	2015	1045	194	206
SISOL-30	2015	1045	242	254
PS.: 1~3cm tolerance might be existed, please note, unit: mm				

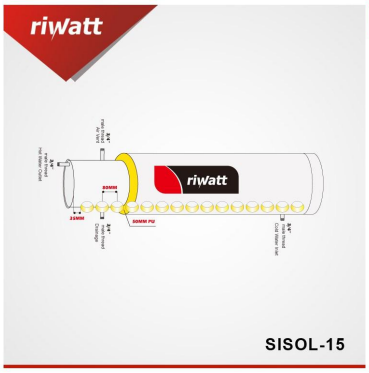


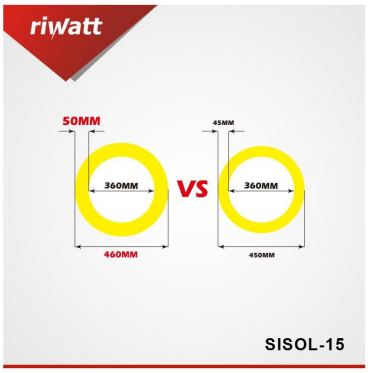
Water Tank	1	Material of Outer Tank Shell	High Quality Stainless Steel, 【SUS-201】
	2	Material of Inner Tank Chest	Food Grade SUS304-2B Stainless Steel
	3	Water Tank Diameter	【460/360 MM】
	4	Water Tank Insulating Layer	Imported Polyurethane, High Density,【50MM】
	5	Heat Preservation Period	72 Hours
	6	Tube to Tube Distance	80mm
Vacuum Tube	7	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	8	Glass Material	High Borosilicate 3.3 Glass
	9	Tube Size	【58*1800 MM】 【15 TUBES】
	10	Coating Material	Cu/SS-ALN(H)/SS-ALN (L)/ALN
Bracket	11	Bracket Material	【U-SHAPE Stainless Steel】
	12	Bracket Angle	【20°25°27°38°45°】
	13	Bolts & Nuts	Stainless Steel

Working Principle:

Thermo siphon Solar Water Heater relies on the natural circulation of water between the collector and the tank or heat exchanger. As water in the vacuum tubes is heated, it rises naturally into the elevated tank while cooler heavier water in the tank flows down to the bottom of the vacuum tubes, causing circulation throughout the system. Greater height differential will result in greater flow. Larger pipe, shorter runs, and gentle bends will make for an adequate flow rate.







Mexico Stainless Steel Solar Water Heater - CSR

MODEL	Vacuum Tube		Capacity			Absorber Area	Suitable for
	Pcs	Size(mm)	Tank(L)	Tube(L)	System(L)	(M2)	(Persons)
CSR-8	8	58×1800	75	24	99	1.064	1~2
CSR-10	10	58×1800	92	30	122	1.33	2
CSR-12	12	58×1800	108	36	144	1.596	2~3
CSR-14	14	58×1800	124	42	166	1.862	3~4
CSR-15	15	58×1800	132	45	177	1.995	4
CSR-16	16	58×1800	140	48	188	2.128	4~5
CSR-18	18	58×1800	157	54	211	2.394	5
CSR-20	20	58×1800	173	60	233	2.66	5~6
CSR-24	24	58×1800	206	72	278	3.192	7
CSR-25	25	58×1800	214	75	289	3.325	7~8
CSR-30	30	58×1800	254	90	344	3.99	8
CSR-32	32	58×1800	271	96	367	4.256	8~9
CSR-33	33	58×1800	279	99	378	4.389	10
CSR-36	36	58×1800	303	108	411	4.788	10~11
CSR-48	48	58×1800	401		545	6.384	12~14

Water Tank	1	Material of Outer Tank Shell	SUS-304-BA (SUS-304-2B Optional)
	2	Material of Inner Tank Chest	Food Grade SUS304-2B Stainless Steel
	3	Water Tank Diameter	**470/360** mm
	4	Water Tank Insulating Layer	Imported Polyurethane,**55**mm Thickness
	5	Heat Preservation Period	72 hours
	6	Welding Method	Argon Arc Welding
	7	Preserved Holes on Water Tank	Air Vent/Cold Water Inlet/Hot Water Outlet/Drainage
Vacuum Tube	8	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	10	Glass Material	High Borosilicate 3.3 Glass
	11	Tube Size	**58*1800**mm * **24** Tubes
	12	Outer Tube Dia. & Glass Thickness	Ø58±0.7mm,Glass Thickness 1.6±0.15mm
	13	Inner Tube Dia. & Glass Ghickness	Ø47±0.7mm,Glass Thickness 1.6±0.15mm
	14	Coating Material	CU/SS-ALN(H)/SS-ALN(L)/ALN
	15	Sediment Method	Tri-Element Magnetron Sputtering Plating
	16	Absorb Ratio	> 96% (AM 1.5)
	17	Thermal Emissivity	≤ 6 % / (80°C)
	18	Pressure Between Tubes (empty)	$5x10^{-3}$ PA
	19	Freezing Point	-30°C
	20	The Average Heat Loss: ULT	≦ 0.60W / (M2▪ ℃)
	21	Hail Resistance	Ø25mm
Bracket	22	Bracket Material	SUS-201 Stainless Steel
	23	Bracket Angle	**20°**,22°, 25° 27°, 30° 38° 45°
	24	Bolts & Nuts	Stainless Steel


Compact Non Pressure Solar Heater -CGR

MODEL	Vacuum Tube		Capacity (L)			Absorber Area	Suitable for
	Pcs	Size(mm)	Tank	Tube	System	(M2)	(Persons)
CGR-10	10	58×1800	100	30	130	1.330	2
CGR-15	15	58×1800	145	45	190	1.995	4
CGR-20	20	58×1800	190	60	250	2.660	5~6
CGR-25	25	58×1800	235	75	310	3.325	7~8
CGR-30	30	58×1800	280	90	370	3.990	9

	1	Material of Outer Tank Shell	Color Painted Steel
	2	Material of Inner Tank Chest	Food Grade SUS304-2B Stainless Steel
	3	Water Tank Diameter	**【480/380 MM】**
	4	Water Tank Insulating Layer	Imported Polyurethane, High Density, **【50MM】**
	5	Heat Preservation Period	72 Hours
	6	Welding Method	Argon Arc Welding
Vacuum Tube	7	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	8	Glass Material	High Borosilicate 3.3 Glass
	9	Tube Size	**【58*800 MM】 【15 TUBES】**
	10	Outer Tube Dia. & Glass Thickness	Ø58±0.7mm,Glass Thickness 1.6±0.15mm
	11	Inner Tube Dia. & Glass Thickness	Ø47±0.7mm,Glass Thickness 1.6±0.15mm
	12	Coating Material	Cu/SS-ALN(H)/SS-ALN (L)/ALN
	13	Sediment Method	Tri-Element Magnetron Sputtering Plating
	14	Hail Resistance	Ø25mm
Bracket	15	Bracket Material	【Stronger Galvanized Steel】
	16	Bracket Angle	【25°】
	17	Bolts & Nuts	Stainless Steel

Compact Non Pressure Solar Heater -PRIFU

MODEL	Vacuum Tube		Capacity (L)			Absorber Area	Suitable for
	Pcs	Size(mm)	Tank	Tube	System	(M2)	(Persons)
PRIFU-10	10	58×1800	85	30	115	1.330	2
PRIFU-15	15	58×1800	125	45	170	1.995	4
PRIFU-20	20	58×1800	165	60	225	2.660	5
PRIFU-25	25	58×1800	210	75	285	3.325	7
PRIFU-30	30	58×1800	250	90	340	3.990	8

Water Tank	1	Material of Outer Tank Shell	Color Painted Steel
	2	Material of Inner Tank Chest	Food Grade SUS304-2B Stainless Steel
	3	Water Tank Diameter	**【470/360 MM】** OR【460/360 MM】
	4	Water Tank Insulating Layer	Imported Polyurethane, High Density,**【55MM】**
	5	Heat Preservation Period	72 Hours
	6	Welding Method	Argon Arc Welding
Vacuum Tube	7	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	8	Glass Material	High Borosilicate 3.3 Glass
	9	Tube Size	**【58*800 MM】**
	10	Outer Tube Dia. & Glass Thickness	Ø58±0.7mm,Glass Thickness 1.6±0.15mm
	11	Inner Tube Dia. & Glass Thickness	Ø47±0.7mm,Glass Thickness 1.6±0.15mm
	12	Coating Material	**CU/SS-ALN(H)/SS-ALN (L)/ALN**
	13	Hail Resistance	Ø25mm
Bracket	14	Bracket Material	【Galvanized Steel,1.2MM OR 1.35MM】
	15	Bracket Angle	【25°】
	16	Bolts & Nuts	Zinc-Coated Steel

Compact Non Pressure Solar Water Heater - HERO

MODEL	Vacuum Tube		Capacity (L)			Absorber Area	Suitable for
	Pcs	Size(mm)	Tank	Tube	System	(M2)	(Persons)
HERO-24	24	58×1800	200	72	272	3.192	6
HERO-30	30	58×1800	250	90	340	3.990	7
HERO-36	36	58×1800	300	108	408	4.788	10

	SOLAR WATER HEATER (INOX MODEL)		
Water Tank	1	Material of Outer Tank Shell	High Quality Stainless Steel SUS-304-BA
	2	Material of Inner Tank Chest	Food Grade SUS304-2B Stainless Steel
	3	Water Tank Diameter	**【470/360 MM】**
	4	Water Tank Insulating Layer	Imported Polyurethane, High Density, **【55MM】**
	5	Heat Preservation Period	72 Hours
	6	Welding Method	Argon Arc Welding
Vacuum Tube	7	Tube Structure	All-Glass Double-Tube Co-Axial Structure
	8	Glass Material	High Borosilicate 3.3 Glass
	9	Tube Size	**【58*800 MM】 【24 TUBES】**
	10	Outer Tube Dia. & Glass Thickness	Ø58±0.7mm,Glass Thickness 1.6±0.15mm
	11	Inner Tube Dia. & Glass Thickness	Ø47±0.7mm,Glass Thickness 1.6±0.15mm
	12	Coating Material	CU/SS-ALN(H)/SS-ALN(L)/ALN
	13	Hail Resistance	Ø25mm
Bracket	14	Bracket Material	【Stronger Stainless Steel,**10CM** WIDTH】
	15	Bracket Angle	【45°】
	16	Bolts & Nuts	Stainless Steel
	17	Magnesium Anode	Dia:20mm, Length:230mm

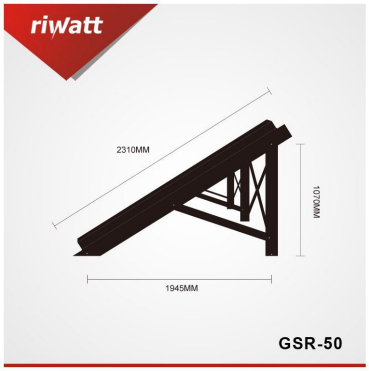
Non-Pressure Solar Thermal Collectors - GSR

GSR-SERIAL NON-PRESSURE SOLAR COLLECTOR DATA SHEET

Model	Tube Specification			Absorb er Area	Package Volume	Container Loading	
	Diameter	Length	Pieces	(M2)	(M3)	20'GP/40'HQ (Sets)	
【VERTICAL TYPE】							
GSR-15	58mm	1800mm	15	1.995	0.26	108	262
GSR-20	58mm	1800mm	20	2.660	0.33	85	206
GSR-25	58mm	1800mm	25	3.325	0.37	76	184
GSR-30	58mm	1800mm	30	3.990	0.45	62	151
【BUTTERFLY TYPE】							
GSR-40	58mm	1800mm	40	5.320	0.53	53	128
GSR-50	58mm	1800mm	50	6.650	0.71	40	96
GSR-60	58mm	1800mm	60	7.980	0.76	36	88

GSR-SERIAL SOLAR COLLECTOR SPECIFICATION

Model	GSR-50
Inner Manifold Material	Food-grade stainless steel SUS304-2B or 316 SS, 0.4/0.5mm
Outer Shell Material of Manifold	Color painted steel/stainless steel/aluminum alloy
Frame	Zinc-coated galvanized steel,1.5mm,30°, 45° ground stand
Insulation Layer	High-density polyurethanefoamed
Tube Dimension:	58*1800mm * 50 tubes（25+25),three target
Tube to Tube Distance	75/80mm
Tube Structure	All-glass double deck co-axial structure
Absorb er Area	6.65 m2
Manifold Plumbing Connections	1''' male thread,1 1/4'',1 1/2'' available
Hailstone Resistance	Diameters of less than 25mm (1 inch)
Life Span	Approximate to 15~25 years



Commercial Application Water Storage Tanks - CTR

Model	Tank Capacity (L)	Outer Tank				Inner Tank			PU Thickness (mm)
		Diameter (mm)	Height (mm)	Material	Thickness (mm)	Diameter (mm)	Material	Thickness (mm)	
CTR-300L	300	Φ720	1050	304/201 SS.	0.31	Φ620	SUS-304-2B	0.5/0.4	50
CTR-400L	400	Φ800	1100	304/201 SS.	0.31	Φ700	SUS-304-2B	0.5/0.4	50
CTR-500L	500	Φ960	1000	304/201 SS.	0.31	Φ860	SUS-304-2B	0.5/0.4	50
CTR-800L	800	Φ1030	1300	304/201 SS.	0.31	Φ930	SUS-304-2B	0.5/0.4	50
CTR-1000L	1000	Φ1060	1500	304/201 SS.	0.4	Φ960	SUS-304-2B	0.6/0.5	50
CTR-1500L	1500	Φ1280	1500	304/201 SS.	0.4	Φ1180	SUS-304-2B	0.6/0.5	50
CTR-2000L	2000	Φ1400	1600	304/201 SS.	0.4	Φ1300	SUS-304-2B	0.6/0.5	50
CTR-2500L	2500	Φ1400	1900	304/201 SS.	0.4	Φ1300	SUS-304-2B	0.6/0.5	50
CTR-3000L	3000	Φ1610	1750	304/201 SS.	0.4	Φ1510	SUS-304-2B	0.7/0.6	50
CTR-4000L	4000	Φ1700	2100	304/201 SS.	0.5/0.4	Φ1600	SUS-304-2B	0.7/0.6	50
CTR-5000L	5000	Φ1800	2310	304/201 SS.	0.5/0.4	Φ1700	SUS-304-2B	0.7/0.6	50
CTR-6000L	6000	Φ2130	1900	304/201 SS.	0.5	Φ2030	SUS-304-2B	0.7/0.6	50
CTR-7000L	7000	Φ2130	2270	304/201 SS.	0.5	Φ2030	SUS-304-2B	0.8/0.6	50
CTR-8000L	8000	Φ2130	2600	304/201 SS.	0.5	Φ2030	SUS-304-2B	0.8/0.6	50
CTR-9000L	9000	Φ2250	2600	304/201 SS.	0.5	Φ2150	SUS-304-2B	1.0/0.8	50
CTR-10000L	10000	Φ2250	2860	304/201 SS.	0.5	Φ2150	SUS-304-2B	1.0/0.8	50
CTR-12000L	12000	Φ2500	2750	304/201 SS.	0.5	Φ2400	SUS-304-2B	1.0 /0.8	50
CTR-15000L	15000	Φ2600	3200	304/201 SS.	0.5	Φ2500	SUS-304-2B	1.0 /0.8	50

REMARKS

◎ Water tank size, inner tank & outer tank thickness can customized as request

◎ Outer tank material, besides SUS-304-2B, there are cheaper material, such as :SUS-202/SUS-201for selection

◎ Above tanks size are based on standard PU thickness of 50mm, there are 60/70/80/90/100mm... for selection

◎ Besides vertical water storage tank, we have horizontal water storage tank and square tank for selection

◎ Inner tank & outer tank thickness tolerance might be existed:±0.06~0.08mm, please note

Central Installation - PRO-2000L

2000L SOLAR HOT WATER PROJECT			
PICTURES	DESCRIPTION	QTY.	REMARK
	Solar Collector a. Model: GSR-50 b. Vacuum tubes: 58*1800,50 Tubes (25+25) c. Stronger Galvanized Steel Structure d. Collector Angle: 30 degree	4 Sets	40/60 Tubes Available
	2000L Water Storage Tank a. Inner Tank & Thick.: SUS-304-2B, 0.6mm b.Out Tank Material & Thick.: 304 SS, 0.4mm c.Inner Tank & Out Tank Diameters: Φ1400×1600 d.Insulation Layer Thickness : 50mm	1 Set	Horizontal Water Tank Available
	Automatic Control System Power: 18KW	1 Set	220V/380V
	WILO Circulation Pump	1~2 Pcs	One use, one backup
	WILO Variable Frequency Pump	1~2 Pcs	One use, One Backup
Solenoid Valve,,Pre-insulated Water Pipe,Fittings,Water Tank Base, Air Vent, Ball Valve,Check Valve,Y-filter Valve...available will present as requested.			

Non Pressure Solar Water Heater Accessories

Pictures	Description	Remark	-
	M-7 Controller Panel (TK-8A,SR601,SR500 OPTIONAL)	*220V*	-
	Assistant Tank Stainless Steel Type 5L		-
	Assistant Tank Color Painted Steel 5L		-
	Electric Heater Element	*47mm, direct-plug model*	-
	Ball Valve	*3/4''*	-

	Copper fittings	*3/4''*	-
	PEX-AL-PEX Water Pipe	*3/4''*	-
	Insulation Pipe	-	-
	Aluminum Foil Tape+PTFE TAPE	-	-
	Pre-Filter	-	-

	Shower Header	-	-
	Water Mixing Valve	-	-
	Vortex Pump/ Booster Pump/ Circulation Pump (reference picture is Vortex pump)	-	-

Compact Pressurized Solar Water Heater Accessories

Pictures	Description	Remark	-
	SR609C	*220V*	-

	P/T Valve (95 degree)	*3/4''*	-
	Anti-Vacuum Safety Valve	*1/2''*	-
	One-Way Valve (Check Valve)	*1/2''*	-
		1/2''	-
	Male Thread Magnesium Anode	*Size: 20*230mm*	-
	Electric Heater Element	*1''*	-

	Ball Valve 304 Stainless Steel Model	*3/4''*	-
	Thermostatic Mixing Valve	*3/4''*	-

Accessories for Split Pressurized Solar Water Heater

Pictures	Description	Remark	-
	Air vent 1/2'' or 3/4''	-	-
	Vacuum Safety Valve 1/2''	-	-
	Inter-panel connector fitting	-	-

	Brass stopper	-	-
	22mm transfer to 3/4'' fitting	-	-
	Y-filter valve	-	-
	Brass ball valve	-	-
	Pre-insulated solar hose	-	-
	Single/Twin pipe holer	-	-
	Brass nut,washer,Cir-clip	-	-

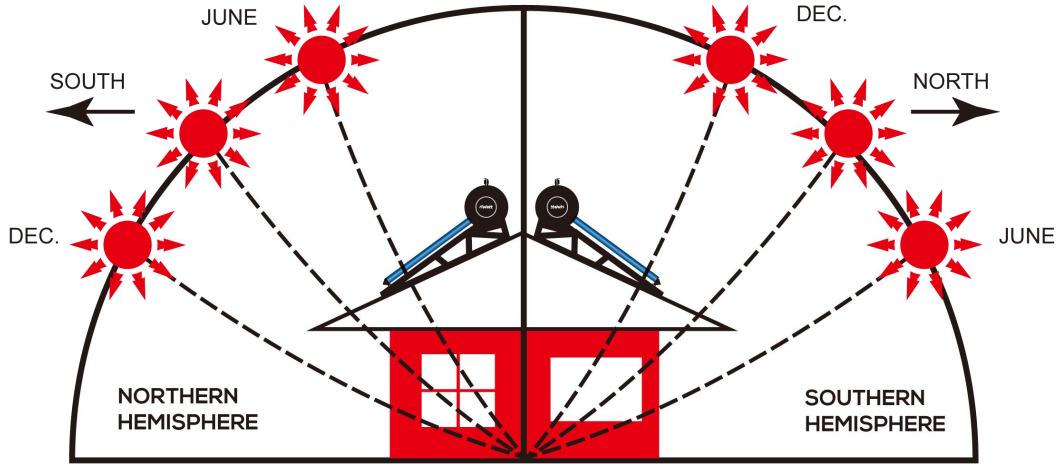
	Brass double nipple	-	-
	Flat tool	-	-
	Cutter	-	-
	Slope Roof Mounting Kits (stainless steel,304-2B.)	-	-
	Slope Roof Al.Alloy Roof Rail 40*40mm,2.0mm thickness	-	-
	Liquid filling valve	-	-
	3/4''* 1/2'' *3/4'' Three Tee Valve	-	-

	Thermostatic mixing valve 3/4''	-	-
	Electric heater element	-	-
	Magnesium anode	-	-
	Check valve	-	-
	P/T Valve (95 degree)	-	-
	Expansion Vessel Accessories	-	-

Portable Demo Solar Kits.

Mounting Surfaces and Direction:

Solar system can be installed on a flat roof or a tiled roof with maintaining the proper angles and directions. Naturally you want the collector to receive the maximum amount of sunlight each day and throughout the year. As a general rule if you are in the Northern Hemisphere then the collector should face south and if you are in the Southern Hemisphere then the collector should face north. See diagram below.



You do not have to be too careful about mounting the collector at the exact angle suggested. If your roof angle is within 10o+/- of your desired angle you can just mount the solar collector flush against the roof surface. The added trouble of adjusting the collector to a precise angle is not warranted as it will not result in a great improvement in efficiency.

Transaction Terms:

1. Payment term: 30% TT in advance or L/C (NEGOTIABLE), for sample order, LCL P.O, 100% TT in advance.
2. Delivery: ±13~20 working days after the receipt of deposit.
3. Warranty:

The manufacturer covers failure due to manufacturing defects for the following warranty time periods.

System : 5 (FIVE)Years ● Accessories:: 1 (ONE) Year