



LISHENG

solar water heater

Jiaying Licheng Electrical Appliance Co., Ltd



Introduction

Jiaxing Licheng Electrical Appliance Co., Ltd.

a professional high-tech. enterprise, not only specialized in R&D, manufacturing, and sales homemade solar water heaters, build solar water heaters, but also has rich experience and capability of implementing and executing large scale and diverse solar water heater projects.

Established in 1999, Licheng has become China's new energy flagship enterprise in the combining of production, academy and research, and integrating science, industry and trade. The company's leadership and senior team comprising entrepreneurs, technical experts, and management professionals, we manufacture under very strict supervision with well-equipped staff using modern facilities to ensure excellent quality. Our products have passed CE, ISO9001:2000 and CCC certificates, etc. Currently we are exporting to the Middle East, Southeast Asia, Europe and the Americas. Our experienced R&D team actively expands our product range to meet changing market trends and we welcome OEM orders.





Vacuum tube

All glass vacuum tube has a special structure. The length is 1.2-2.3m, which is made up of inner tube and outer tube. All glass vacuum tube solar water heater has enjoyed good reputation among our users and has been widely used overseas. This is because it has the advantages of energy saving, no-pollution and corrosion resistance, etc.

All glass vacuum tube has many advantages which the former metal heat pipe does not have, such as no burst, high efficiency and high performance. What's more important is that it can reduce the costs largely.

COMPARE THE ECONOMIC BENEFITS OF SOLAR WATER HEATER AND OTHER WATER HEATERS (FOR EXAMPLE IN CHINA)

Heaters Concept	Solar water heater (100kg/1.8*1.5)	Electric (¥0.50/kwh)	Gas(¥85/15kg)
Equipment Investment	2500	1000	600
Life time	15	5	5
Daily output 50℃ hot water(kg)	Winter 80/summer200	Winter 80/summer200	Winter 80/summer200
Number of days used annually	300 days	300 days	300 days
Money for energy per year	0	945	842
Equipment Investment in 15 years	2500	3000	1800
Total expenses in 15 years ¥	2500	17175	14430
Risk	NO	YES	YES
Pollution	NO	YES	YES
Inner house occupancy	NO	YES	YES





Tel: 0086 573 86409738
Fax: 0086 573 86409657
Email: seanwusolar@gmail.com



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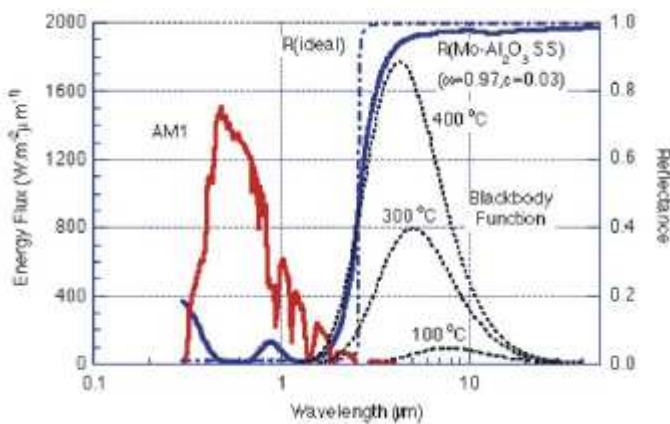
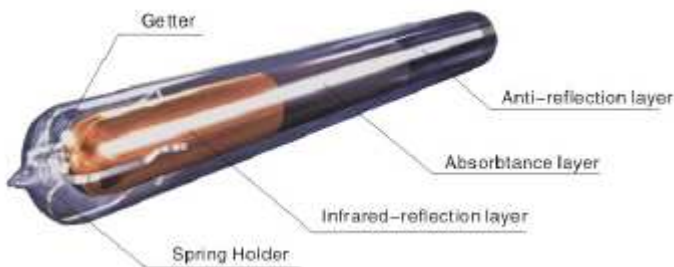
New tri-element vacuum tube

Feature

Vacuum tubes assimilate the advanced 12 layers of sputtering deposition of trivalent element technology, high borosilicate glass, gradually change of ALN/AIN-SS/CU selective complex absorptive coating. And these make vacuum tubes have high performance of absorptance and low reflection ratio. Through the interlayer, vacuum has a unique effect of thermo, with its temperature up to 380°C of idle sunning, performing a strong heating ability.



New tri-element vacuum tube
(Φ58×1800mm)
(Φ47×1500mm)





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Fax: 0086 573 86409657
Email: seanwusolar@gmail.com



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Heat pipe vacuum tube

Feature

A perfect combination of the vacuum tube and the heat pipe.

1. Higher heat efficiency: advanced heat transferring style of the heat pipe, excellent selective absorb coating and perfect combination with high vacuum heat preservation.
2. Widely applicable range: as the heat pipe has less heat capacity, it can be started quickly even under cloudy fine day and collect heat effectively. It can work normally even -30 below degree. As no water in the vacuum tube, it can work effectively prevent lowing of heat efficiency due to frost cracking or scaling.
3. Each individual tube can work independently, and the whole machine can still work if individual tube is damaged. The service life of the heat pipe can be longer than 15years.
4. The unique connection between the heat pipe and the vacuum tube can ensure both sealing and replace of damaged glass vacuum tube.



Heat pipe
($\Phi 58 \times 1800 \text{mm}$)
($\Phi 47 \times 1500 \text{mm}$)



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Fax: 0086 573 86409657
Email: seanwusolar@gmail.com



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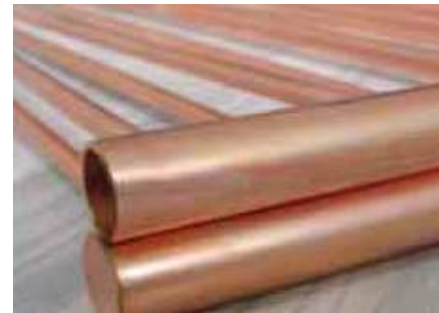
U pipe vacuum tube

Feature

1. Reliable, efficient, patent vacuum tubes.
2. The vacuum tubes absorb the solar energy and transfer into the heat energy, then pass it to the U pipe, rapid heat transfer, high temperature.
3. It is steady and credible.
4. Easy installation.
5. Suitable for mains water pressure.
6. Easy to connect in series for large quantity of water.
7. There is no water in the vacuum tube, so the tube will not break in cold winter.
8. It can be combined with the architecture perfectly.

Parallel connect-U pipe Features

1. It can still operate in the event of occasional tube breakages.
2. Work in all climates, it can still operate in the event of breakages.



U pipe
($\Phi 58 \times 1800 \text{mm}$)
($\Phi 47 \times 1500 \text{mm}$)



Tel: 0086 573 86409738
Fax: 0086 573 86409657
Email: seanwusolar@gmail.com



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One pipe inlet-outlet

Compact non-pressure

Feature

1. Super anti-erode outer tank: Outer tank is made by stainless steel 304/316 or PVDF. Best anti-erode material. Especial for the seaside area, such as East South Asia etc.
2. Feeding water automatic: with special design, feeding water automatic, and ensure the outlet water as stable temperature.

Material

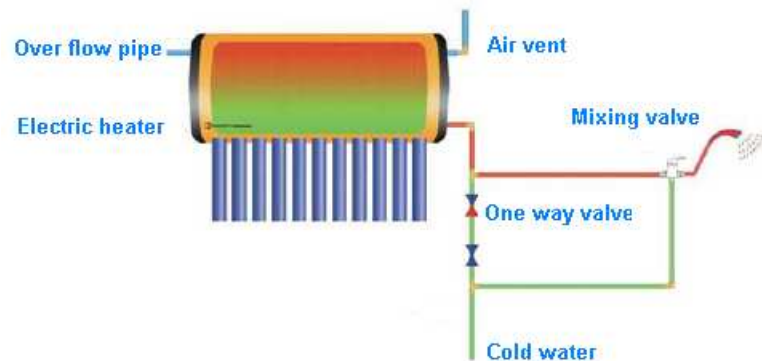
1. Inner tank: stainless steel SUS 304-0.41mm /SUS 316-0.50mm
2. Vacuum tube: QB-AL-N/AL-47-1500/58-1800
3. Outer tank: stainless steel SUS304-0.41mm /SUS 316-0.50mm /PVDF-0.41mm
4. Frame: coated galvanized steel-1.5mm; stainless steel SUS-1.5mm
5. The material of insulation: polyurethane 50/60mm
6. The reflector: aluminum component; AL 99.85% surface oxidation; stainless steel



LS02-A



LS01-A





Tel: 0086 573 86409738
 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



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Parameter Table

Model	Tube Specification	Tube Coating	Capacity (Litre)	Loading quantity		
				20° GP (Sets)	40° GP (Sets)	40° HQ (Sets)
LS15-47/1500-90	Φ47mm*1500mm*15	AL-N-AL	90	66	135	161
LS18-47/1500-108	Φ47mm*1500mm*18	AL-N-AL	108	59	120	141
LS20-47/1500-120	Φ47mm*1500mm*20	AL-N-AL	120	51	110	130
LS24-47/1500-144	Φ47mm*1500mm*24	AL-N-AL	144	47	93	111
LS30-47/1500-180	Φ47mm*1500mm*30	AL-N-AL	180	39	78	89
LS15-58/1800-150	Φ58mm*1800mm*15	AL-N-AL	150	41	87	102
LS18-58/1800-180	Φ58mm*1800mm*18	AL-N-AL	180	35	74	86
LS20-58/1800-200	Φ58mm*1800mm*20	AL-N-AL	200	32	68	79
LS24-58/1800-240	Φ58mm*1800mm*24	AL-N-AL	240	27	58	67
LS30-58/1800-300	Φ58mm*1800mm*30	AL-N-AL	300	23	48	56
LS36-58/1800-360	Φ58mm*1800mm*36	AL-N-AL	360	16	35	41

Optional: Electric heater, auto controller and reflector

Remark:

1. Solar heat storage tank diameter (mm): 410/460/490
2. Thickness, insulated (mm): 50/60
3. Vent connection (inch): 1/2
4. Electric heater connection (inch): 1
5. Water connection (inch): 1/2
6. Collector angle (degree): 30/45



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Two pipes inlet-outlet

Compact non-pressure

Feature

The design of this type is according with the international fashion trend, it is easy to operate. The design is scientific and reasonable, it could always provide hot water.

Material

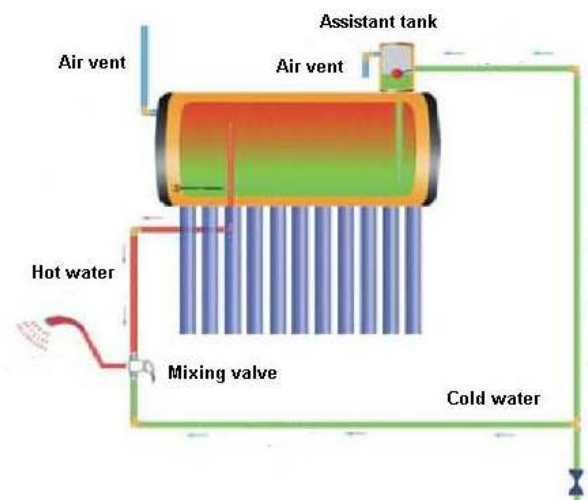
1. Inner tank: stainless steel SUS 304-0.41mm /SUS 316-0.50mm
2. Vacuum tube: QB-AL-N/AL-47-1500/58-1800
3. Outer tank: stainless steel SUS304-0.41mm /SUS 316-0.50mm /PVDF-0.41mm
4. Frame: coated galvanized steel-1.5mm; stainless steel SUS-1.5mm
5. The material of insulation: polyurethane 50/60mm
6. The reflector: aluminum component; AL 99.85% surface oxidation; stainless steel



LS02-B



LS01-B



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 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



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Parameter Table

Model	Tube Specification	Tube Coating	Capacity (Litre)	Loading quantity		
				20° GP (Sets)	40° GP (Sets)	40° HQ (Sets)
LS15-47/1500-90	Φ47mm*1500mm*15	AL-N-AL	90	66	135	161
LS18-47/1500-108	Φ47mm*1500mm*18	AL-N-AL	108	59	120	141
LS20-47/1500-120	Φ47mm*1500mm*20	AL-N-AL	120	51	110	130
LS24-47/1500-144	Φ47mm*1500mm*24	AL-N-AL	144	47	93	111
LS30-47/1500-180	Φ47mm*1500mm*30	AL-N-AL	180	39	78	89
LS15-58/1800-150	Φ58mm*1800mm*15	AL-N-AL	150	41	87	102
LS18-58/1800-180	Φ58mm*1800mm*18	AL-N-AL	180	35	74	86
LS20-58/1800-200	Φ58mm*1800mm*20	AL-N-AL	200	32	68	79
LS24-58/1800-240	Φ58mm*1800mm*24	AL-N-AL	240	27	58	67
LS30-58/1800-300	Φ58mm*1800mm*30	AL-N-AL	300	23	48	56
LS36-58/1800-360	Φ58mm*1800mm*36	AL-N-AL	360	16	35	41

Optional: Electric heater, auto controller and reflector

Remark:

1. Solar heat storage tank diameter (mm): 410/460/490
2. Thickness, insulated (mm): 50/60
3. Vent connection (inch): 1/2
4. Electric heater connection (inch): 1
5. Water connection (inch): 1/2
6. Collector angle (degree): 30/45



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 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



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Pre-heated solar water heater

Feature

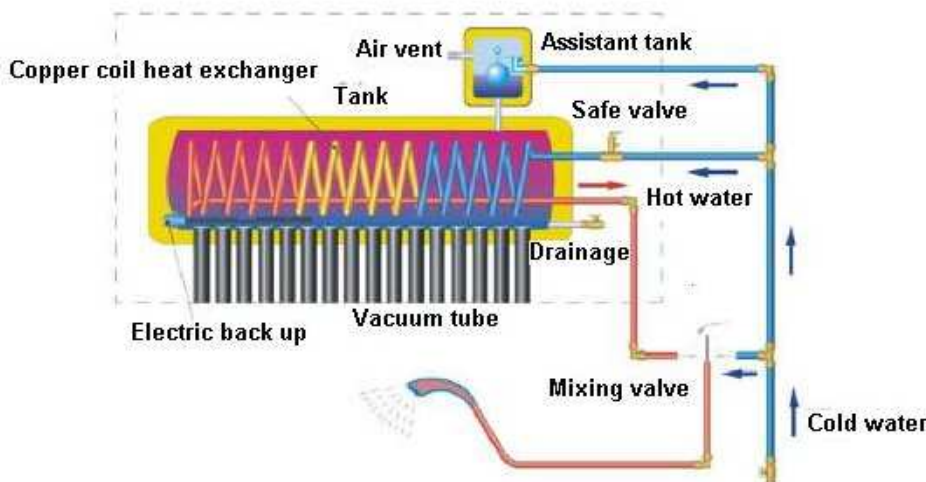
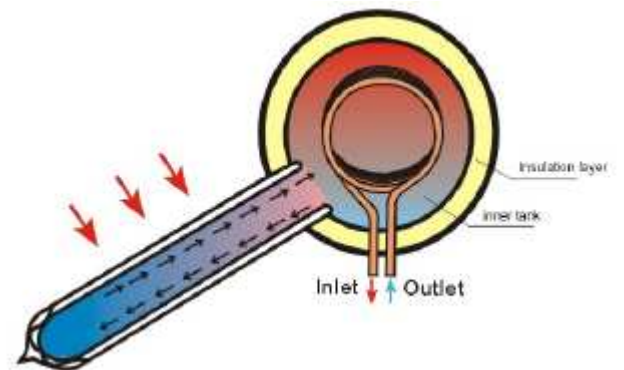
1. Heat exchange instantly, water plentiful.
2. Fresh water quality, live water supply
3. Work with pressure, output with riptide
4. Temperature invariableness, comfortable and safety
5. Hot & cold separate, never breakage
6. Energy storage, anti-freezing
7. Working with intelligent, easy and reliable
8. Perfect pursuit

Material:

1. Inner tank: stainless steel SUS 304-0.41mm
2. Vacuum tube: QB-AL-N/AL-58-1800
3. Outer tank: painted steel-0.4mm; stainless steel SUS304-0.4mm
4. Frame: coated galvanized steel-1.5mm; stainless steel SUS-1.5mm
5. The material of insulation: polyurethane
6. The reflector: aluminum component; AL 99.85% surface oxidation; stainless steel
7. Copper coil: ϕ 12mm, thickness 0.8mm



QJF-E/ QJF-EH



Cooper coil inside

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Tel: 0086 573 86409738
 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



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Parameter Table

Model	Tube Specification	Tube Coating	Capacity	Loading quantity		
				20` GP (Sets)	40` GP (Sets)	40` HQ (Sets)
QJF-210E	Φ58mm*1800mm*21	ALN/AIN-SS/CU	210L	35	71	90
QJF-240E	Φ58mm*1800mm*24	ALN/AIN-SS/CU	240L	31	63	79
QJF-300E	Φ58mm*1800mm*30	ALN/AIN-SS/CU	300L	26	52	65
QJF-360E	Φ58mm*1800mm*36	ALN/AIN-SS/CU	360L	24	48	60
QJF-210EH	Φ58mm*1800mm*21	Heat pipe	210L	35	71	90
QJF-240EH	Φ58mm*1800mm*24	Heat pipe	240L	31	63	79
QJF-300EH	Φ58mm*1800mm*30	Heat pipe	300L	26	52	65
QJF-360EH	Φ58mm*1800mm*36	Heat pipe	360L	24	48	60

Optional: Electric heater, auto controller and reflector

Remark

1. Solar heat storage tank diameter(mm): 460/490
2. Thickness, insulated(mm): 50/55
3. Max. Fluid pressure(Pa): 1MPa
4. Operating fluid pressure(Pa): 0.4MPa
5. Coil connection(inch): 1/2
6. Hot-inlet(inch): 1/2
7. Cold-inlet(inch): 1/2
8. Small tank connection(inch)" 1/2
9. Electric heater connection(inch): 1
10. Distance from tube to tube(mm): 80

Compact pressure solar water heater

Feature

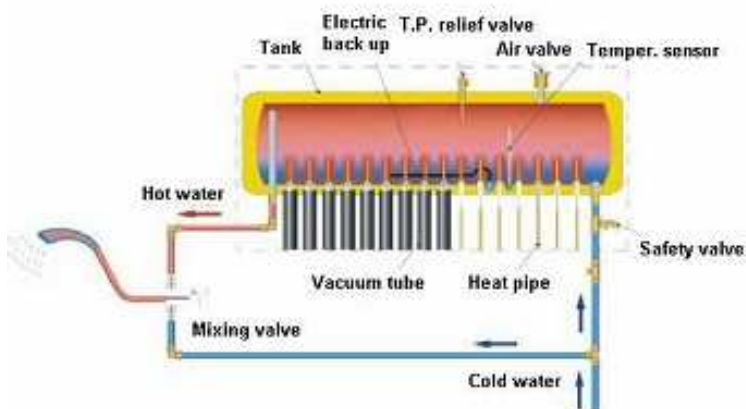
1. Working with high pressure, so do the water it produces.
2. It uses the heat pipe to deliver the heat energy, it can work rapidly.
3. Each tube can work alone, so it can still work in the event of occasional tube breakage.

Material

1. Inner tank: SUS304-1.2mm/1.5mm;
2. Vacuum tube: QB-AL-N/AL-58-1800
3. Outer tank: painted steel-0.41mm/stainless steel SUS304-0.41mm thickness
4. Reflector: aluminum component/stainless steel.



HP01/02





Tel: 0086 573 86409738
Fax: 0086 573 86409657
Email: seanwusolar@gmail.com



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Parameter Table

Model	Tube Specification	Tube Coating	Capacity	Loading quantity		
				20` GP (Sets)	40` GP (Sets)	40` HQ (Sets)
HP01-150H	Φ58mm*1800mm*15	Heat pipe	150L	42	84	105
HP01-200H	Φ58mm*1800mm*20	Heat pipe	200L	36	72	91
HP01-250H	Φ58mm*1800mm*25	Heat pipe	250L	31	62	78
HP01-300H	Φ58mm*1800mm*30	Heat pipe	300L	27	53	66

Optional: Electric heater, auto controller and reflector

Remark

1. Solar heat storage tank diameter(mm): 490
2. Thickness, insulated(mm): 55
3. Max. Fluid pressure(Pa): 1MPa
4. Operating fluid pressure(Pa): 0.4MPa
5. Vent connection(inch): 1/2
6. Hot-inlet(inch): 1/2
7. Cold-inlet(inch): 1/2
8. Electric heater connection(inch): 1
9. Distance from tube to tube(mm): 75
10. Install angle(degree): 38/45



Tel: 0086 573 86409738
 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



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Heat pipe solar collector

Feature

1. The water is heated by the heat pipe rapidly;
2. There is no water in the vacuum tube, so the tube will not break in winter;
3. It can be combined with the architecture perfectly;
4. It can be combined with existing pipeline;
5. It will be affected by the local water quality, it doesn't suit hard water;
6. It can still work in event of occasional tube breakage.

Material

Outer tank: stainless steel-1.5mm/ aluminum alloy 1.5mm
 Manifold: 1inch

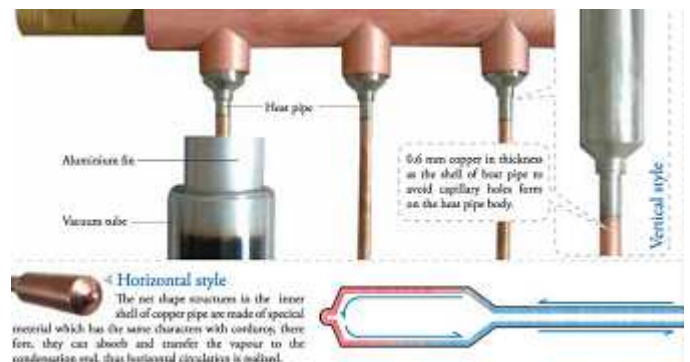
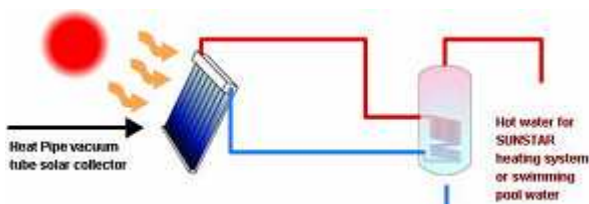
Advantages

1. New manifold, more stronger;
2. The frame can be adjusted;
3. Easy installation;
4. Tail stock support is made of stainless steel or aluminum alloy

SCH-R1



SCH-R2





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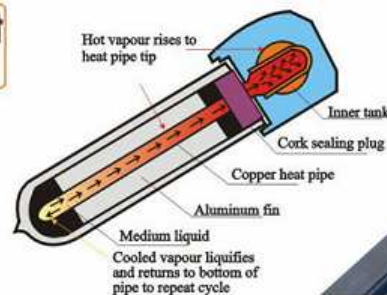
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Parameter Table

Model	Tube Specification	Tube Coating	Absorber area	Daily Output (50°C)	Loading quantity		
					20` GP (Sets)	40` GP (Sets)	40` HQ (Sets)
SCH12-58/1800	Φ58mm*1800mm*12	Heat pipe	1.55M ²	85-120 L	120	240	300
SCH15-58/1800	Φ58mm*1800mm*15	Heat pipe	1.95M ²	105-150 L	92	200	228
SCH20-58/1800	Φ58mm*1800mm*20	Heat pipe	2.60M ²	140-200 L	72	150	170
SCH30-58/850	Φ58mm*850mm*30	Heat pipe	1.75M ²	80-120L	90	185	225
SCH35-58/850	Φ58mm*850mm*35	Heat pipe	2.03 M ²	120-150L	85	172	185
SCH15-47/1500	Φ47mm*1500mm*15	Heat pipe	1.37 M ²	60-85 L	130	270	320
SCH20-47/1500	Φ47mm*1500mm*20	Heat pipe	1.84M ²	90-110 L	112	240	280

Remark

1. Manifold connections(mm/inch): 38mm(outer)/34mm(inner) 1'
2. Test pressure(MPa): 1.0
3. Operating fluid pressure(MPa): 0.6
4. Max. service temperature (degree): 95
5. Max. stagnation temperature (degree): 200
6. Distance from tube to tube(mm): 75
7. Flow range recommendation(l/m²h): 50-150
8. Insulation thickness(mm): 40
9. Min. collector angle(degree): 15
10. Max. collector angle(degree): 75





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 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



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U pipe solar collector

Feature

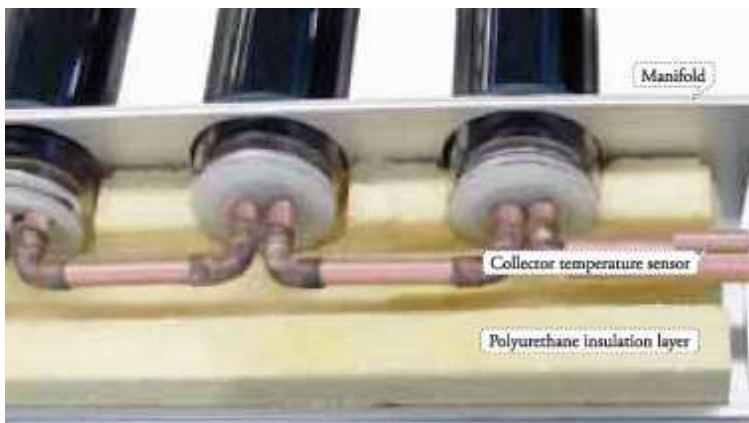
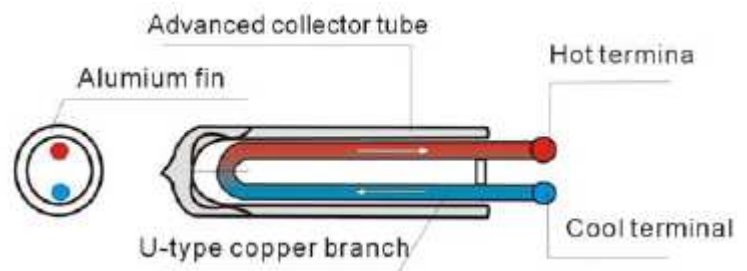
1. The vacuum tubes absorb the solar energy and transfer into the heat energy, then pass it to the U pipe, it can get high temperature;
2. Have a good performance of bearing pressure, suitable pump circulation there is no water in the vacuum tube, so the tube will not break in the winter;
3. It is steady and credible;
4. It can be combined with the architecture perfectly, the installation is flexible and can work under any installation angle;
5. It can be combined with existing pipeline;
6. It can still work in the event of occasional tube breakage.

Material

Outer tank: zinc aluminized 0.5mm
 Manifold: $\phi 22\text{mm}$ thickness 2mm
 U copper type: $\phi 8\text{mm}$ thickness 0.6mm

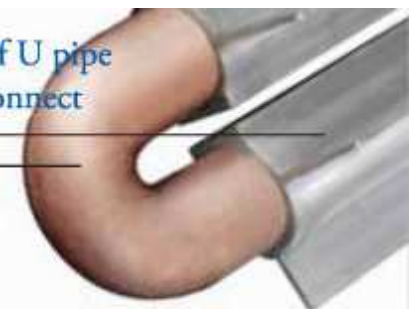


SCU-R2



Structure of U pipe for series connect

Aluminium fin
 Copper pipe



Series connect U pipe Features

Water or transfer medium flows through all the U pipes, high efficiency, no dead water or medium.



Tel: 0086 573 86409738
 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



Jiaxing Licheng Electrical Appliance Co., Ltd

Parameter Table

Model	Tube Specification	Tube Coating	Absorber	Daily Output (50°C)	Loading quantity		
					20` GP (Sets)	40` GP (Sets)	40` HQ (Sets)
SCU12-58/1800	Φ58mm*1800mm*12	U pipe	1.55M ²	85-120 L	60	121	128
SCU15-58/1800	Φ58mm*1800mm*15	U pipe	1.95M ²	105-150 L	50	100	122
SCU20-58/1800	Φ58mm*1800mm*20	U pipe	2.60M ²	140-200 L	38	76	92
SCU15-47/1500	Φ47mm*1500mm*15	Heat pipe	1.37 M ²	60-85 L	52	110	124
SCU20-47/1500	Φ47mm*1500mm*20	Heat pipe	1.84M ²	90-110 L	40	84	96

Remark

1. Manifold connections (mm/inch): 22mm (outer)/1/2
2. Test pressure (MPa): 0.9MPa
3. Operating fluid pressure (MPa): 0.6MPa;
4. Max. service temperature (degree): 95
5. Max. stagnation temperature (degree): 252
6. Distance from tube to tube (mm): 75



Tel: 0086 573 86409738
 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



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Flat plate solar collector

Feature

1. Flat area: 1.5m², 2.0m²
2. Absorb coating: Aluminu-copper complex
Ultrasonic welding selective oxidation (Black paint)
3. Absorb plate: all copper
4. Frame: Aluminum alloy
5. Insulation material 40mm Glass wool layer
6. Frame color silvery or bronze-coloured
7. Glass 4mm tempered glass with iron oxide
8. Backing sheet: 0.4mm steel galvanized material
9. Sealing profile and Leak-proof protection: EPDM



SCF1.5/2.0



Parameter Table

Model	Absorber Area	Coating	Daily Output (50°C)	Loading quantity		
				20° GP (Sets)	40° GP (Sets)	40° HQ (Sets)
SCF-1.5	1000mmx1500mm	Black paint	120L	125	250	320
SCF-2.0	1000mmx2000mm	Black paint	150L	98	196	250

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Fax: 0086 573 86409657
Email: seanwusolar@gmail.com



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Split pressure solar water heater with heat pipe solar collector

The split means that the solar collector separates from water storage tank. Collector maybe installed either on the roof or wall while water tank may be installed at any place in a villa flexible. Collector harmonizes with villa's outlook and maintains villa's outlook beauty.

Working principle

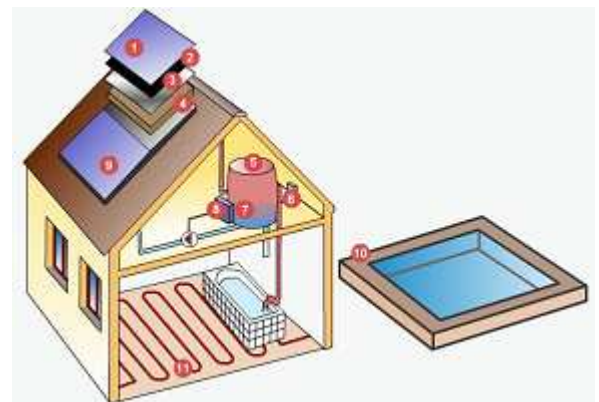
The collector absorbs solar energy and transmits it to the water tank through circulation. When the temperature of the collector reaches the set value, the controller starts the circulation pump automatically.

Feature

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. Multifunction: bathing, washing, domestic heating, etc;
5. Work at anytime and enjoyable.



SPH01/02



Solar collector



Water tank



Working station



Tel: 0086 573 86409738
 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



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Parameter Table

Model	Collector Model	Collector Model	Tank capacity (liters)	Absorber Area (m ²)	Loading quantity		
					20'GP (sets)	40'GP (sets)	40'HQ (sets)
LC-SPH01-150-15	SCH15-58/1800	1 Pc	150L	1.92M ²	33	67	80
LC-SPH01-150-20	SCH20-58/1800	1 Pc	150L	2.57M ²	30	62	74
LC-SPH01-200-20	SCH20-58/1800	1 Pc	200L	2.57M ²	28	58	68
LC-SPH01-200-24	SCH12-58/1800	2 Pc	200L	3.06M ²	26	53	62
LC-SPH01-300-30	SCH15-58/1800	2 Pc	300L	3.84 M ²	20	40	48
LC-SPH01-300-36	SCH12-58/1800	3 Pc	300L	4.59M ²	18	37	43
LC-SPH01-300-40	SCH20-58/1800	2 Pc	300L	5.14M ²	17	35	44
LC-SPH01-400-40	SCH20-58/1800	2 Pc	400L	5.14M ²	14	28	34
LC-SPH01-400-48	SCH12-58/1800	4 Pc	400L	6.12M ²	13	26	31
LC-SPH01-500-50	SCH25-58/1800	2 Pc	500L	6.12M ²	11	22	25
LC-SPH01-500-60	SCH20-58/1800	3 Pc	500L	7.7M ²	10	20	23
LC-SPH02-150-30	SCH15-47/1500	2 Pc	150L	2.74M ²	31	62	78
LC-SPH02-200-40	SCH20-47/1500	2 Pc	200L	3.68 M ²	24	48	62
LC-SPH02-300-60	SCH20-47/1500	3 Pc	300L	5.49 M ²	19	38	50

Optional: one copper coil or two copper coils

Material

Water tank:

- 1) Water tank (interior): stainless steel 304-1.5mm/2mm
- 2) Copper coils(single): Φ12mm, thickness 0.8mm, length 15m;
- 3) Tank capacity: 150L, 200L, 300L , 400L, 500L

Heat pipe solar collectors:

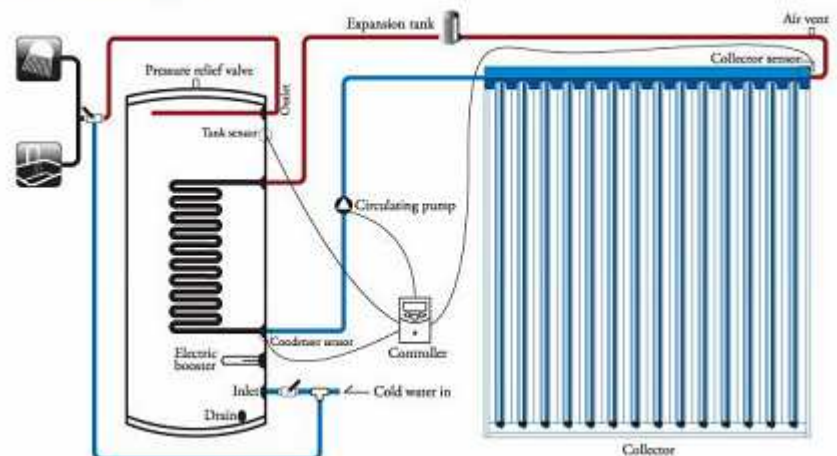
- 1) Manifold: aluminum alloy 1.5mm
- 2) Vacuum tube dimensions:
58mm x 1.8m, 47mm x 1.5m

Work station: SP106

Pressure: 6 bar

Electrical heater: 1.5kw-3kw, 220V/110V, 50Hz

Indirect heat-exchange (exchange with medium) ▾



<http://www.lishengsolar.com/>



Tel: 0086 573 86409738
 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



Jiaxing Licheng Electrical Appliance Co., Ltd

Split pressure solar water heater with U pipe solar collector

SPU01/02



Parameter Table

Model	Collector Model	Collector Model	Tank capacity (liters)	Absorber Area (m ²)	Loading quantity		
					20'GP (sets)	40'GP (sets)	40'HQ (sets)
					LC-SPU01-150-15	SCU15-58/1800	1 Pc
LC-SPU01-150-20	SCU20-58/1800	1 Pc	150L	2.57M ²	18	35	46
LC-SPU01-200-20	SCU20-58/1800	1 Pc	200L	2.57M ²	17	33	43
LC-SPU01-200-24	SCU12-58/1800	2 Pc	200L	3.06M ²	14	29	37
LC-SPU01-300-30	SCU15-58/1800	2 Pc	300L	3.84 M ²	12	23	30
LC-SPU01-300-36	SCU12-58/1800	3 Pc	300L	4.59M ²	10	20	26
LC-SPU01-300-40	SCU20-58/1800	2 Pc	300L	5.14M ²	10	20	27
LC-SPU01-400-40	SCU20-58/1800	2 Pc	400L	5.14M ²	9	19	25
LC-SPU01-400-48	SCU12-58/1800	4 Pc	400L	6.12M ²	8	16	21
LC-SPU01-500-50	SCU25-58/1800	2 Pc	500L	6.12M ²	8	16	21
LC-SPU01-500-60	SCU20-58/1800	3 Pc	500L	7.7M ²	7	14	18
LC-SPU02-150-30	SCU15-47/1500	2 Pc	150L	2.74M ²	14	29	37
LC-SPU02-200-40	SCU20-47/1500	2 Pc	200L	3.68 M ²	12	24	31
LC-SPU02-300-60	SCU20-47/1500	3 Pc	300L	5.49 M ²	9	17	22

Optional: one copper coil or two copper coils



Tel: 0086 573 86409738
 Fax: 0086 573 86409657
 Email: seanwusolar@gmail.com



Jiaxing Licheng Electrical Appliance Co., Ltd

Split pressure solar water heater with flat plate solar collector

SPU01/02



Parameter Table

Model	Collector Model	Collector Model	Tank capacity (liters)	Absorber Area (m ²)	Loading quantity		
					20'GP	40'GP	40'HQ
					(sets)	(sets)	(sets)
LC-SPU01-150-2.0	SCF-2.0	1 Pc	150L	2.0	18	37	48
LC-SPU01-200-2.0	SCF-2.0	1 Pc	200L	2.0	17	35	45
LC-SPU01-200-3.0	SCF-1.5	2 Pc	200L	3.0	13	27	35
LC-SPU01-250-3.0	SCF-1.5	2 Pc	250L	3.0	12	25	32
LC-SPU01-250-3.5	SCF-1.5/2.0	2 Pc	250L	3.5	11	22	28
LC-SPU01-250-4.0	SCF-2.0	2 Pc	250L	4.0	11	22	28
LC-SPU01-300-4.0	SCF-2.0	2 Pc	300L	4.0	11	22	27
LC-SPU01-300-4.5	SCF-1.5	3 Pc	300L	4.5	9	19	25
LC-SPU01-400-5.0	SCF-1.5/2.0	3 Pc	400L	5.0	8	17	22
LC-SPU01-400-6.0	SCF-2.0	3 Pc	400L	6.0	7	15	19
LC-SPU01-500-6.0	SCF-2.0	3 Pc	500L	6.0	7	15	19

Optional: one copper coil or two copper coils



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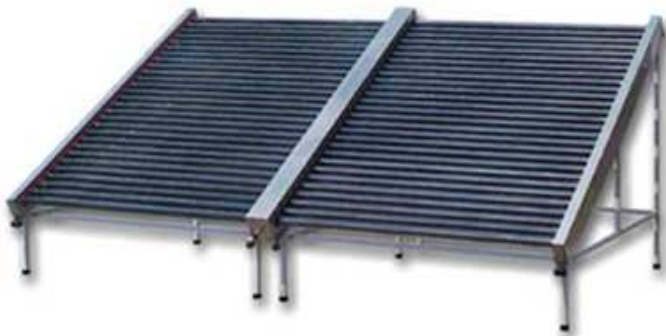


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Non-pressure solar collector for project

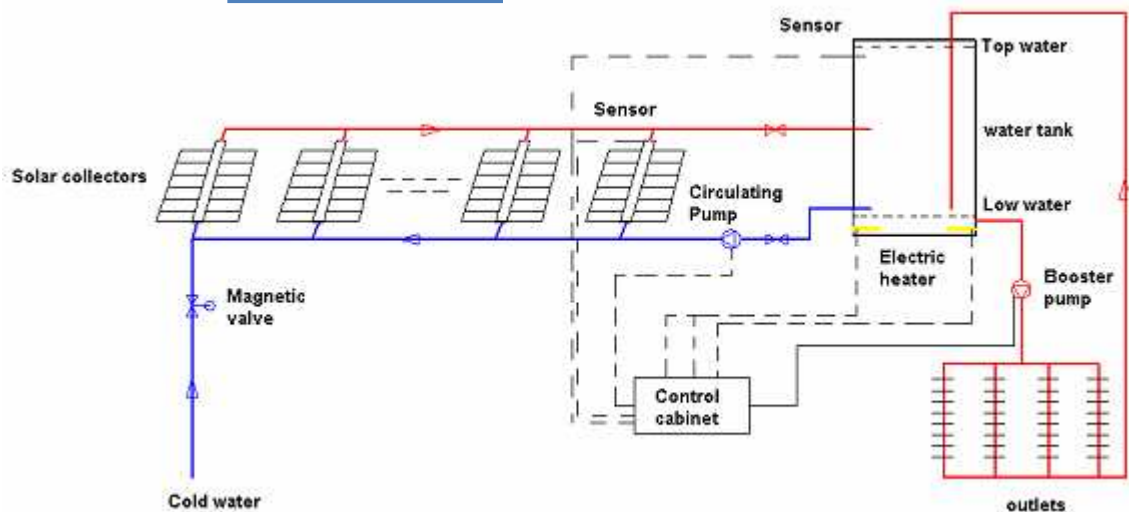
Material

- 1) Inner Tank: 0.4mm stainless steel (SUS304/2B)
- 2) Outer Tank: 0.4mm Galvanized steel alloy/
Stainless steel 0.4mm
- 3) Insulation layer: 40mm polyurethane
- 4) Vacuum tubes: 47*1500mm
- 5) Remark: 25/50pcs vacuum tubes/set



SCN50-47/1500

SCN25-47/1500





Tel: 0086 573 86409738
Fax: 0086 573 86409657
Email: seanwusolar@gmail.com



Jiaxing Licheng Electrical Appliance Co., Ltd

Large scale central solar heating system

Description

The working principle of LISHENG non-pressure all glass vacuum tube solar collector is the same as thermosiphon solar water heater.

The LISHENG large scale central solar heating system is made up by non-pressure solar collector, tank, controller system, electromagnetic valve, circulating pump, appurtenances and so on. Its principle is that collector makes cold water become warm and then the water flow to the tank by circulating pump.

- 1) Set the temperature --- supplying the hot water in constant temperature;
- 2) Temperature difference circulation --- enhancing the heating efficiency;
- 3) The pipeline circulation--- no need to wait for hot water;
- 4) The anti-freezing device--- normally used in winter.

The whole system operates automatically and safely. Because of the simple structure, the system can be installed according to customer's requirements. We also install electric heating in the tank. So you can also have hot water when it's rainy, achieving electric heating auxiliary, microcomputer intelligence controller to guarantee user can get hot water 24 hours all year.

Advantages of LISHENG large scale central solar heating system

- 1) Suitable for every area:

You can select different solar collector based on different area climate, and our system are extensively suitable for hotel, hospital, school and dormitory in all four seasons;

- 2) Environment-protection & energy- saves:

LISHENG large scale central solar heating system use solar energy as the main Energy source, it's no environmental pollution;

- 3) Convenience & practicability:

LISHENG large scale central solar heating system achieves automatic supplying water, automatic electricity heating and automatic thermal circulation;

- 4) Safe & Reliable:

LISHENG large scale central solar heating system use solar energy as the main energy, and uses electricity energy or any others as auxiliary energy. It has a lot of advantage: stable function, high automatic, lots of safe measures.(leakage of electricity protection, automatically prevent heating without water, automatically close the system when there is breakdown);

- 5) System multiform:

Set the different water temperatures for different demands.

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Jiaxing Licheng Electrical Appliance Co., Ltd

International trade policy

If you have any doubts, if you have any suggestion, if you need help, we are appreciate if you let us know and give your valuable advice

Contact details:

Contact person: Sean Wu
Company: Jiaxing Licheng Electrical Appliance Co., Ltd.
Tel: +86-573-86409738
Fax: +86-573-86409657
Email: seanwusolar@gmail.com
Msn: seanwus1125@hotmail.com
Skype: Sean.solar
Mobile: +86-13957303984

Trade terms

Original	China	Brand	Lisheng/ OEM
Price terms	FOB,CIF,CFR	Minimum order	1set (for sample0
Payment terms	T/T,L/C	Delivery time	15days after payment done
Supply ability	2000sets/month	Loading port	Shanghai, China

Sample policy

- 1) May I get a sample?
Yes!
As we know: no sample, no business, so we offer sample for your evaluation first.
- 2) What's the sample packing?
Our normal packing for sample is pallet (Laminate flooring box)

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Jiaxing Licheng Electrical Appliance Co., Ltd

Warranty

Warranty given to the purchaser by a company shows that a product is reliable and free from known defects and that the seller will, without charge, repair or replace defective parts within a given time limit and under certain conditions.

LISHENG commitment to our customers is to provide the highest quality in products and services. If your product does not work properly, please contact us to help determine if your product is defective. Details as follow:

1. The following causes are not covered by standard warranty period:

- (1) Damage arising from improper transportation, storage;
- (2) Damage arising caused by the users' disassembling;
- (3) Damage arising from irresistible calamities;
- (4) LISHENG shall not be liable for loss;
- (5) LISHENG standard warranty does not cover any products, damages or injuries resulting from misuse, neglect, normal expected wear, chemically caused corrosion, improper installation or operation contrary to factory recommendation.
- (6) LISHENG shall not be liable for the result: equipment that has been modified, stamped with or altered without authorization.

2. The following causes are covered by standard warranty period:

If fault occurs, please notify us with a complete description or picture of the alleged malfunction, including the date of purchase from us, installation and operating conditions of subject product(s). We will subsequently review this information, and give you the feedback at once.

- (1) During our warranty period, the components which don't work can be changed free; and after warranty period, the components which don't work can be changed at a low cost price;
- (2) The warranty product(s) should be shipped within your next order.