

[Http://www.innosolarenergy.com](http://www.innosolarenergy.com)

Innosolar Energy Co., Ltd.

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InnoSolar[®]



2017

Let The Sun Power Up Our life
[Http://www.innosolarenergy.com](http://www.innosolarenergy.com)

FLAT PLATE COLLECTOR





COMPANY PROFILE ▶▶▶

Innosolar Energy Co., Ltd. is a leading manufacturer of solar heating products. We have office in both Nanjing, China and Perth, Australia. With dedication of our team, INNOSOLAR is involved in design & producing of top quality solar water heaters.

INNOSOLAR focus on the business of exporting only and our products are 100% exported. Moreover, Integrated with a high quality control system of ISO9001, INNOSOLAR has a perfect system including material sourcing, producing, quality control, logistic, co-working design with customer. We believe that a perfect control system is the key to customer value adding and also a key to our success.

- 🌀 Five patents on collector design in China
- 🌀 System accessories certified by Australia standard

We are looking for partners all over the world. We still believe that only long-run business cooperation will make value to us. And if you are also interested, please contact us to power up our lives with solar together.

WHY SOLAR AND WHY INNOSOLAR ▶▶▶



Everyone knows that sun power is the cleanest and most reliable energy we can use. By harnessing the sun's energy and converting it into hot water, it significantly reduces carbon emissions, save you money on energy bill and add value to your home.

- 🌀 If you decide to choose SOLAR, choose INNOSOLAR
- 🌀 InnoSolar is the expert of solar and we keep selling the top quality products all over the world.

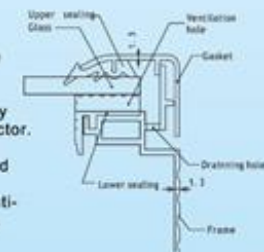
HIGH EFFICIENCY DESIGN ▶▶▶



- 🌀 INNO SOLAR is the only maker in China still supplying copper absorber collectors !!!
- 🌀 INNO SOLAR has unique water test report in computer for every single pcs collector !!

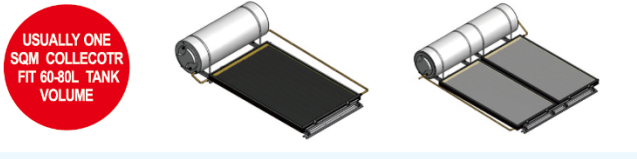
INNOSOLAR FLAT COLLECTORS HAS BELOW ADVANTAGES ▶▶▶

- 🌀 International patents on the design of the collector.
- 🌀 Double sealing to avoid any leakage.
- 🌀 The frame can be opened for maintenance purpose.
- 🌀 The ventilation design is special and can out-lead the inside vapor, if any, at least 4times faster than ventilation of the bottom.
- 🌀 The connection way between frame-bars is particularly designed and is stronger to support the whole collector.
- 🌀 The collector is excellent at high temperature performance. We particularly select material to avoid any out-gassing problem under high temperature.
- 🌀 The Aluminum frame is anodized which is good for anti-corruption and will not have mark under light hitting.



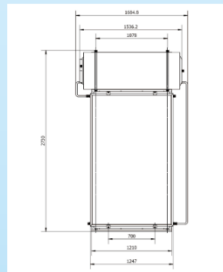
SYSTEM

Roof mount system

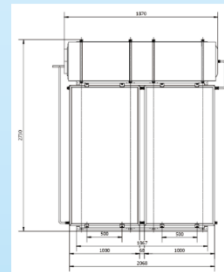


Tank Capacity	200L	300L
General Info		
Type	Roof-mount	Roof-mount
Tank Dimension	Dia 438mm, length 1570mm	Dia 600mm, Length 1870mm
Collector Nr.	1	2
Collector Gross Area (m ²)	2.5	4
Back-up heater power	2.4KW	2.4KW
Power supply	220V, 50HZ	220V, 50HZ
Warranty	5 years	5 years
Max working pressure	0.75mPa	0.75mPa
T&P relief pressure	0.85 mPa	0.85mPa
Tank Info		
Item No.	INNO-TC-WS-200L	INNO-TC-WS-300L
Number of tank	1	1
Inner tank material	enameling on BTC 340R	enameling on BTC 340R
Inner tank thickness	2.5mm	2.5mm
Insulation material& thickness	PU/50mm	PU/50mm
Magnesium rod	one pcs	one pcs
In/out connector	G3/4"	G3/4"
High temperature protection	80°C	80°C
Back-up heater control	Robertshaw	Robertshaw
Weight-empty (Kg)	70	90
Weight-full (Kg)	270	290

Installation Dimension



Installation Dimension



SPECIFICATION OF COLLECTORS WITH COPPER ABSORBER

Item	Black chrome absorber		Blue sputtering absorber	
	2.0BC	2.5BC	2.0TN	2.5TN
Efficiency	78.70%	78.70%	75.70%	75.70%
Dimension (mm)	2000X1000X95	2000X1247X95	2000X1000X95	2000X1247X95
Aperture Area (m ²)	1.85	2.34	1.85	2.34
Absorber Area (m ²)	1.78	2.24	1.78	2.24
No. of covers	1	1	1	1
Cover material	Low iron temper glass	Low iron temper glass	Low iron temper glass	Low iron temper glass
Cover thickness (mm)	3.2	3.2	3.2	3.2
Cover transmission	92%	92%	92%	92%
Collector Volume (L)	1.7	2.1	1.7	2.1
Collector Net Weight (Kg)	37	46	37	46
Absorber				
Thickness	0.15mm	0.15mm	0.12mm	0.12mm
Surface coating	Black chrome	Black chrome	Blue sputtering	Blue sputtering
Construction Type	Ultrasonic welding	Ultrasonic welding	Ultrasonic welding	Ultrasonic welding
Header material	Copper	Copper	Copper	Copper
Header size (mm)	Dia 22x0.6x1060; 2 pcs	Dia 22x0.6x1310; 2 pcs	Dia 22x0.6x1060; 2 pcs	Dia 22x0.6x1310; 2 pcs
Riser material	Copper	Copper	Copper	Copper
Riser size (mm)	Dia 10x0.55	Dia 10x0.55	Dia 10x0.55	Dia 10x0.55
Max operation pressure (mPa)	1.0	1.0	1.0	1.0
Testing pressure (mPa)	1.65	1.65	1.65	1.65
Casing				
Frame thickness (mm)	1.3	1.3	1.3	1.3
Back sheet	Aluminium 0.5mm	Aluminium 0.5mm	Aluminium 0.5mm	Aluminium 0.5mm
Face sealing material	EPDM (double sealings)	EPDM (double sealings)	EPDM (double sealings)	EPDM (double sealings)
Max operation temperature (°C)	200°C	200°C	200°C	200°C
Insulation				
Back insulation	Rockwool (55K)	Rockwool (55K)	Rockwool (55K)	Rockwool (55K)
Side insulation	Glasswool (48K)	Glasswool (48K)	Glasswool (48K)	Glasswool (48K)
Loading				
20'GP	134	105	134	105
40'HQ	276	225	276	225

Options on various coating,materials and structures are available.

SPECIFICATION OF COLLECTORS WITH ALUMINUM ABSORBER

Item	Black chrome absorber		Blue sputtering absorber	
	2.0CA	2.5CA	2.0BA	2.5BA
MODEL Nr.	2.0CA	2.5CA	2.0BA	2.5BA
Efficiency	Pending	Pending	Pending	Pending
Dimension (mm)	2000X1000X95	2000X1247X95	2000X1000X95mm	2000X1247X95
Aperture Area (m ²)	1.85	2.34	1.85	2.34
Absorber Area (m ²)	1.78	2.24	1.78	2.24
No. of covers	1	1	1	1
Cover material	Low iron temper glass	Low iron temper glass	Low iron temper glass	Low iron temper glass
Cover thickness (mm)	3.2	3.2	3.2	3.2
Cover transmission	92%	92%	92%	92%
Collector Volume (L)	1.7	2.1	1.7	2.1
Collector Net Weight (Kg)	36	45	36	45
Absorber Thickness	0.4mm	0.4mm	0.4mm	0.4mm
Surface coating	Black chrome	Black chrome	Blue sputtering	Blue sputtering
Construction Type	full-plate laser welding	full-plate laser welding	full-plate laser welding	full-plate laser welding
Header material	Copper	Copper	Copper	Copper
Header size (mm)	Dia 22x0.6x1060; 2 pcs	Dia 22x0.6x1310; 2 pcs	Dia 22x0.6x1060; 2 pcs	Dia 22x0.6x1310; 2 pcs
Riser material	Copper	Copper	Copper	Copper
Riser size (mm)	Dia 10x0.55	Dia 10x0.55	Dia 10x0.55	Dia 10x0.55
Max operation pressure (mPa)	1.0	1.0	1.0	1.0
Testing pressure (mPa)	1.65	1.65	1.65	1.65
Casing Frame thickness (mm)	1.3	1.3	1.3	1.3
Back sheet	Aluminium 0.5mm	Aluminium 0.5mm	Aluminium 0.5mm	Aluminium 0.5mm
Face sealing material	EPDM (double layers)	EPDM (double layers)	EPDM (double layers)	EPDM (double layers)
Max operation temperature (°C)	200°C	200°C	200°C	200°C
Insulation Back insulation	Rockwool (55K)	Rockwool (55K)	Rockwool (55K)	Rockwool (55K)
Side insulation	Glasswool (48K)	Glasswool (48K)	Glasswool (48K)	Glasswool (48K)
Loading 20GP	134	105	134	105
40'HQ	276	225	276	225

Options on various coating, materials and structures are available.



STANDARDSMARK LICENCE

SAI Global hereby grants:

Innosolar Energy Co., Ltd

No.10 Chaoyang Road, Dongping Town, Lishui District, Nanjing City, Jiangsu, China

StandardsMark Licence

Manufactured to:

AS/NZS 2712:2007 - Solar and heat pump water heaters - Design and construction

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Licence No: SMK40733

Issued : 2 November 2018
Expires : 25 October 2023

Originally Certified : 26 October 2018
Current Certification : 26 October 2018

Kevin Goodwin
General Manager Technical Services
SAI Global Assurance



* For details of manufacture, refer to the licensee
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