

riwatt

PROFESSIONAL * INNOVATION * QUALITY



RIWATT.COM



Company Introduce :

Riwatt Solar Co., Limited is a leading manufacturer of high-quality, maintenance-free solar water heaters, offering competitive pricing and a commitment to ethical, eco-friendly business practices. Driven by innovation, dedication, and excellence, we deliver tailored solar thermal solutions that meet customer needs. Trusted by clients across America, Europe, the Middle East, Asia, and Australia, RiWatt combines technical expertise, strategic vision, and professional service to ensure continuous improvement and lasting value. We look forward to mutually beneficial cooperation with you.



Hot water 24 X 7



Reduced Electricity Bills



Save Money



Go Green



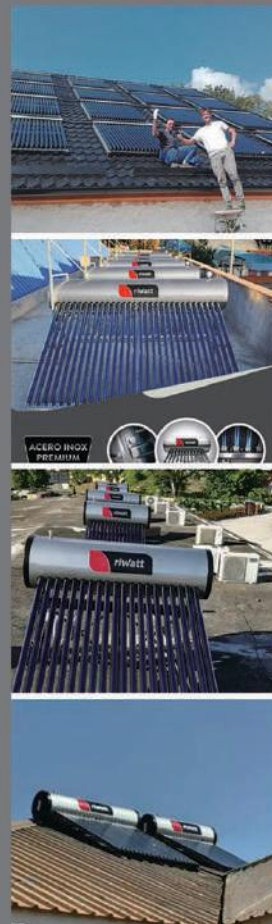
Increased Business Efficiency

riwatt

OUR FACTORY & WORKSHOP
CERTIFICATES
INSTALLATION CASES
PACKING



OUR CERTIFICATE





KEY POINTS:

Inner tank: stainless steel SUS304, 0.4/0.5/0.8MM

Vacuum tube: Cu/SS-ALN(H)/SS-ALN(L)/ALN 58-1800mm

Outer tank shell: STAINLESS STEEL/PVDF

Insulation: high density polyurethane,50mm/55mm

Frame: Stronger **ADJUSTABLE** GALVANIZED STEEL



5 years product warranty

With over 55000 water heaters sold worldwide our brand and our products are a symbol of confidence



100/150/200/240/300L

Non-pressure Solar Water Heater



WATER TANK

Material of Outer Tank Shell

STAINLESS STEEL-SUS-304/PVDF

Material of Inner Tank Chest

Food Grade SUS304-2B SS. 0.4mm/0.5mm/0.8mm

Water Tank Diameter

[470/360 MM] / [480/380 MM]

Water Tank Insulating Layer

Imported Polyurethane, High Density, [50/55MM]

Tube to Tube Distance

[75/80MM]

Heat Preservation Period

72~80 Hours

Welding Method

Argon Arc Welding



Bracket

Bracket Material

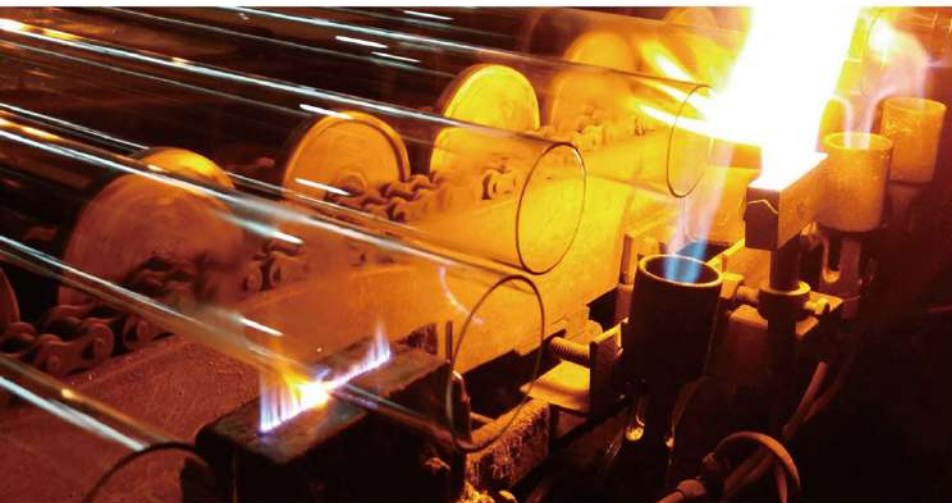
Stronger Adjustable Galvanized Steel

Bracket Angle

[25°/30°/38°]

Bolts & Nuts

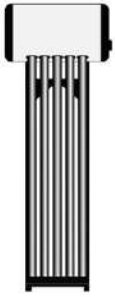
Stainless Steel



Non-pressure Solar Water Heater

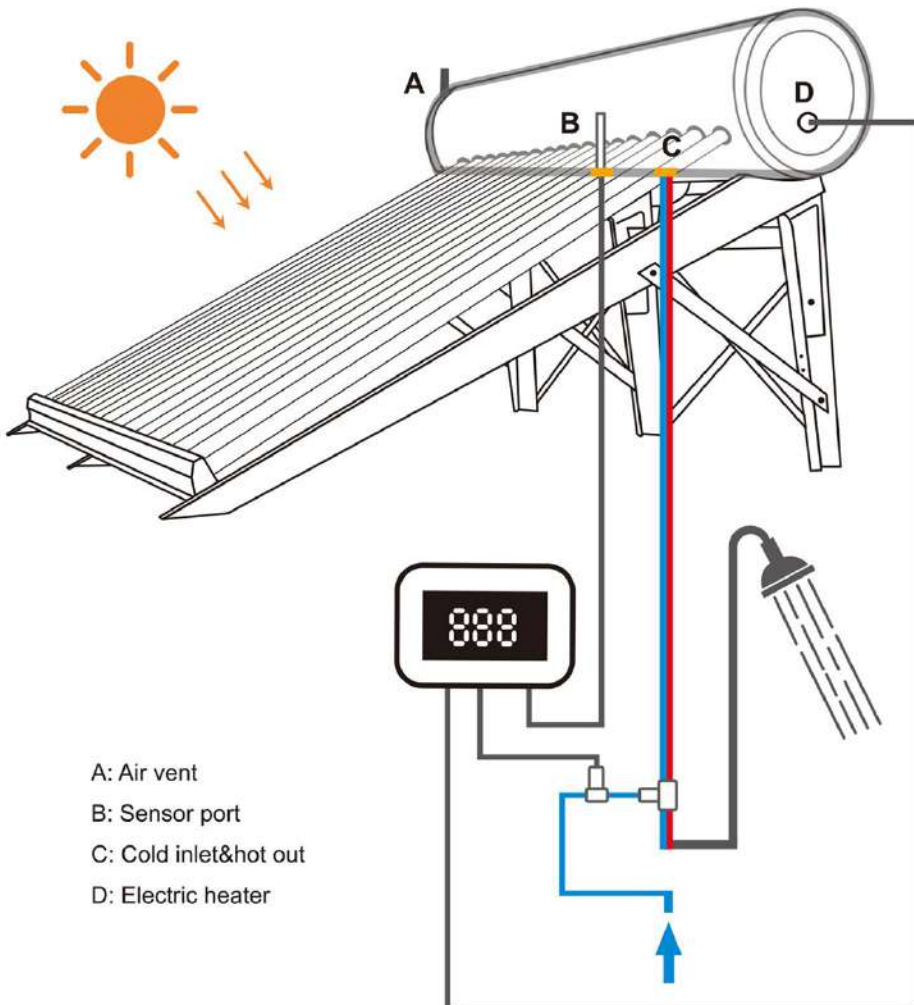
MODEL	Vacuum Tube		Capacity (L)	Absorber Area	Suitable for
	Pcs	Size(mm)	Tank	(M2)	(Person)
OPTIMA-100L	10	58×1800	100	1.330	3~4
OPTIMA-150L	15	58×1800	150	1.995	5~6
OPTIMA-200L	20	58×1800	200	2.660	7~8
OPTIMA-240L	24	58×1800	240	3.192	9~11
OPTIMA-300L	30	58×1800	300	3.990	12~13

Type	Evacuated Tube	Tube Size	58-1800mm
Pressure	Non-pressure/Low Pressure	Circulation Type	Other
Heating System	Thermosyphon (Passive)	Connection Type	Direct-Plug
Model Number	OPTIMA-100/150/200/240/300L	Recommend Region	South America,Asia, Africa



Vacuum

Tube Structure	All-Glass Double-Tube Co-Axial Structure
Glass Material	High Borosilicate 3.3 Glass
Tube Size	[58*1800 MM] [10/15/20/24/30 TUBES]
Coating Material	[CU/SS-ALN(H)SS-ALN(L)/ALN]
Sediment Method	Tri-Element Magnetron Sputtering Plating
Absorb Ratio	> 96% (AM 1.5)
Thermal Emissivity	≤ 6% / (80°C)
Pressure Between Tubes (Empty)	5x10 ⁻³ PA
Freezing Point	-30°C
The Average Heat Loss: ULT	≤ 0.60W / (M ² • C)
Hail Resistance	Φ25mm



- A: Air vent
- B: Sensor port
- C: Cold inlet&hot out
- D: Electric heater



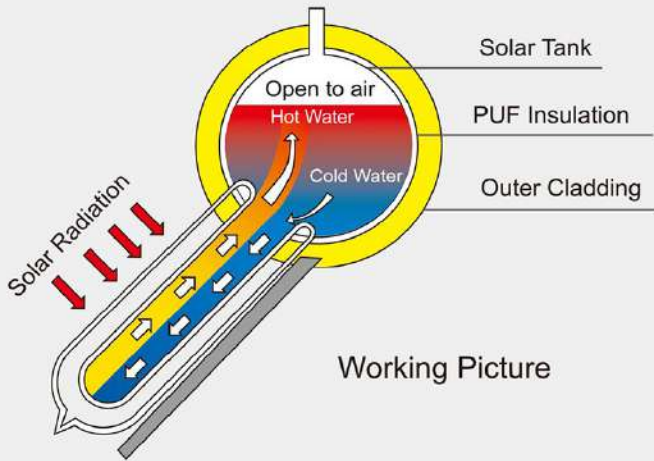
UTILIZE UP TO 96%

Solar Power During Peak Sun Hours

Use the sun to warm your water.
Save up to \$579 per year!!

Cost per year

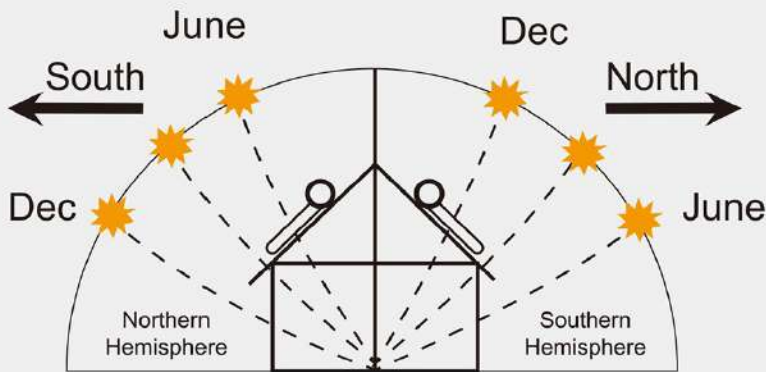
Solar Water Heater		\$0
Electric Heater		\$579
Gas Heater		\$263



Working Picture

Description

Thermosyphon solar water heater (compact non-pressure 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 tank, while cooler water in the tank flows down to the bottom of the vacuum tubes, causing circulation throughout the system.



ACCESSORIES

Reference Pic.	Description
	Magnesium anode 3/4"
	Inbuilt electric heater element
	Controller panel 220V/50HZ
	Thermostatic mixing valve
	5L Assistant Tank

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 10+/- 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.



Professional * Innovation * Quality

As a professional solar water heater manufacturer ,RIWATT aims at "Creating the Number 1 Brand".With this vision, we have been providing the most cost-effective solar thermal products and best services to our business partner since 2015 !



Prime Quality

Solar Keymark(TUV) Certified!



Save Money

Saving over 570 US dollars per year!



Increased Business Efficiency

Prime efficiency, Durable and Affordable, we made it!





Riwatt, Pressurized Specialist!



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