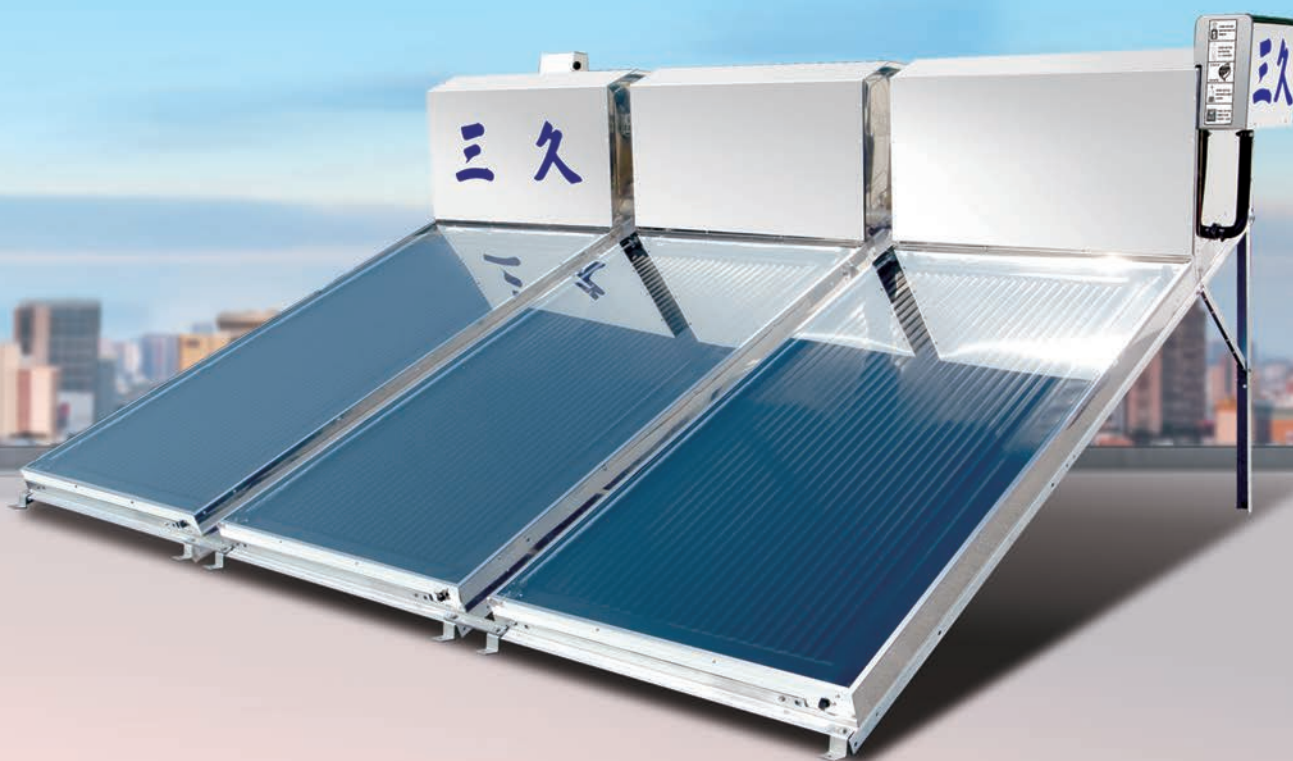


SUNCUE® SOLAR WATER HEATER

Save Money, Durable, Safe, Convenient and Eco-friendly.



The Most Awarded · The Best Selling



Invention and Creation
Awards of Taiwan-
Contribution Award



NATIONAL
INVENTOR'S
AWARD OF
TAIWAN

Invention and Creation
Awards of Taiwan-
Contribution Award



TAIWAN
EXCELLENCE
2013

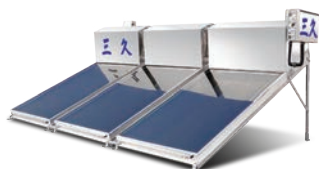


Green Mark



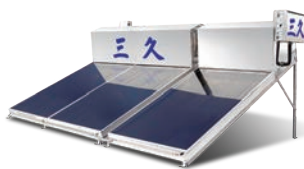
The National
Gold Award
for Architecture

Flexibility in capacity for various requirement.



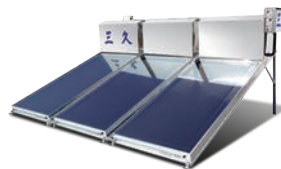
TOP-384

Water tank:
128×3=384 liters
For 5-7 people



TOP-406

Water tank:
278+128=406 liters
For 6-8 people



TOP-504

Water tank:
168×3=504 liters
For 8-10 people



TOP-516

Water tank:
348+168=516 liters
For 8-10 people



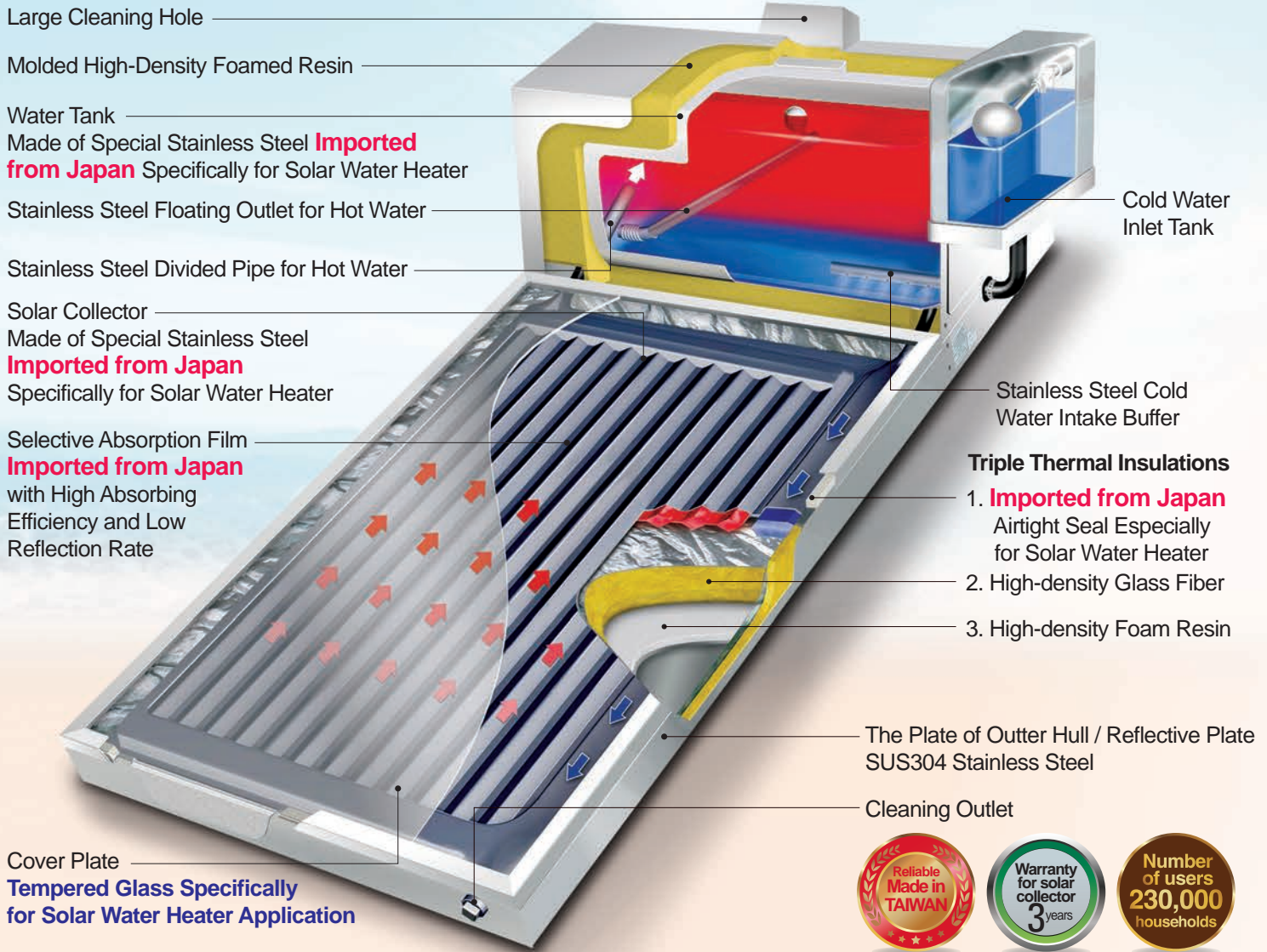
SUNCUE® Solar Water Heater

Using technology from Japan, SUNCUE launched solar water heaters in 1980.

In 1993, SUNCUE exclusively developed stand-alone-tank design with great heat collecting performance, outstanding thermal insulation design and high hot water usage efficiency. It is now the leading brand made in Taiwan.

Source: NCKU Research and Development Foundation

Synchronized with Japan Manufacturer in Both Materials and Design

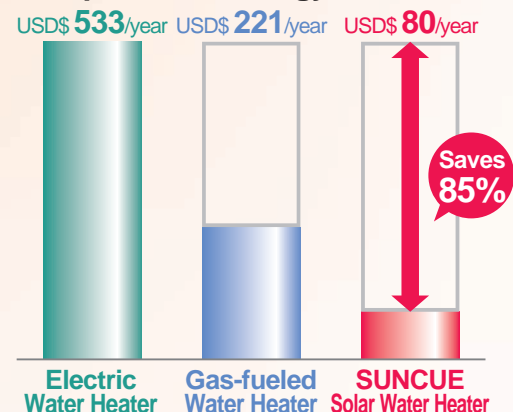


Using SUNCUE Solar Water Heater Saves The Most Money. 85% of Energy Saving Annually.

Item	Electric Water Heater	Gas-fueled Water Heater	SUNCUE Solar Water Heater
Installation Fee Approx.	USD\$ 587	USD\$ 340	USD\$ 1,853~2,470
Actual Durability Approx.	7~10 years	5 years	More than 20 years
Use of Fuel No. of Days	365 days	365 days	55 days, average in Taiwan
Fuel Usage Units/year	5,694 Kwh	613 Units	858 Kwh
Fuel Cost USD\$/unit	0.1	0.36	0.1
Annual Fuel Cost	USD\$ 533	USD\$ 221	USD\$ 80
Total Fuel Cost Over Ten Years	Equals to the waste of three solar water heaters	Equals to the waste of one solar water heaters	Save money, Durable, Safe, Convenient and Eco-friendly.

* The calculation is based on the electricity cost on April 1st, 2024, natural gas cost on June 1st, 2021, water use of 300 liters per household for 365 days per year in Taiwan. *The numbers are for reference only due to variables in usage, fuel cost and CPI.
* The USD value shown on the above chart is based on the exchange rate, TWD\$32.52 to USD\$1, at Bank of Taiwan as of October 24th, 2022.

Comparison of Energy Cost Approx.

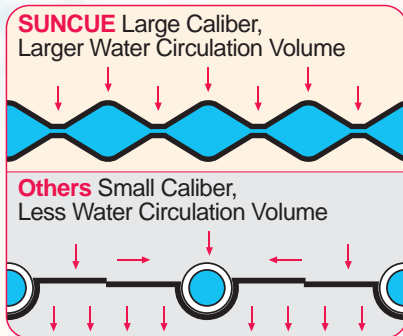


Great Heat Collecting Performance

Exclusively Using “Stainless Steel Solar Collector” from Japan

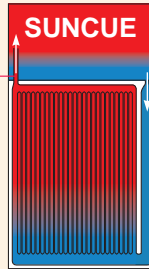
- Corrosion-resistant, highly clog-resistant, good heat collecting performance.
- 26 diamond-shaped water collecting tunnels create a water volume 2.5 times more than regular-tube type, thus heat collection is faster and efficiency is higher.
- The only manufacturer in Taiwan that produces high-efficiency plate type solar collector. The solar collectors directly heat up cold water inside water collecting tunnels by absorbing solar heat and provide the shortest and fastest route for heat transmission with the best solar heat collecting performance.

Comparison of Heat Transmission

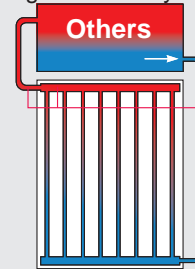


SUNCUE One-piece design with no corners. Smooth circulation.

Divided Pipes for Hot Water



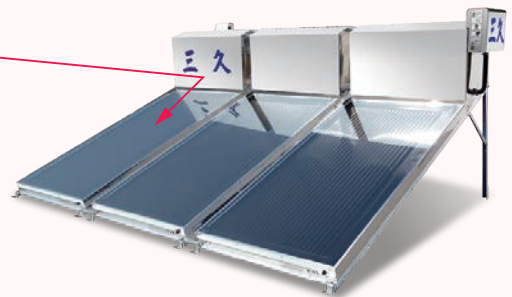
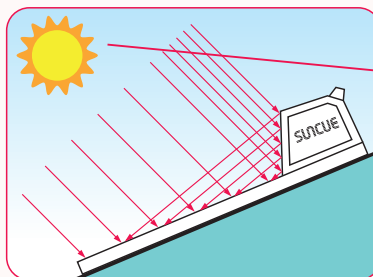
Others Corners hinder water circulation thus clog is more likely to accumulate.



Poor circulation areas where clog accumulations are generally seen.

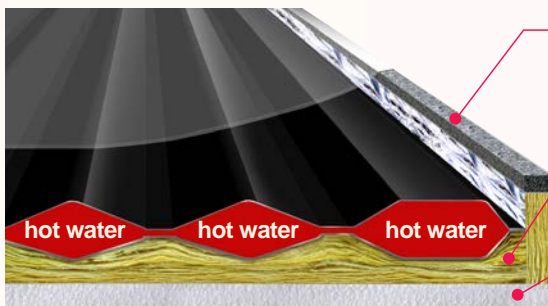
Synchronized with Japanese brands, SUNCUE uses Large-area Reflective Plates

Collect more sunlight and enhance heat collecting efficiency by angled sunlight reflecting to the plates.



Outstanding Thermal Insulation Design

SUNCUE Exclusively Uses Triple Thermal Insulation Design to Provide Good Airproof and Insulation Performance.



1st Insulation Airtight Seal Especially for Solar Water Heater
Weather-resistance / water-proof / finely sealed. Prevents moisture from entering solar collectors and cause dew to form.

2nd Insulation High-density Glass Fiber
Greatly minimizes heat loss with strong insulation and is non-flammable, corrosion-resistant, moisture-resistant, fungus-free and aging-free.

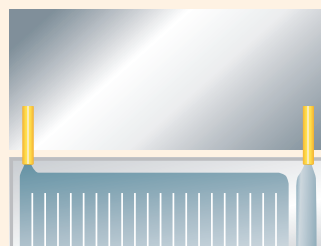
3rd Insulation High-density Foamed Resin
Compact arrangement of molecules, good thermal insulation, even foam matrix, consistently good quality.

One-piece Design

- Aesthetic appearance based on industrial design makes your living environment more stylish.
- Designed by structural engineers, SUNCUE solar water heater can endure typhoons and earthquakes.

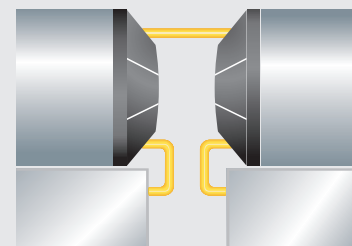
Vertical Design, Fast and Highly Efficient Circulation

SUNCUE uses hidden circulation pipes



Hidden circulation pipes reduce heat loss significantly.

General exposed circulating pipes



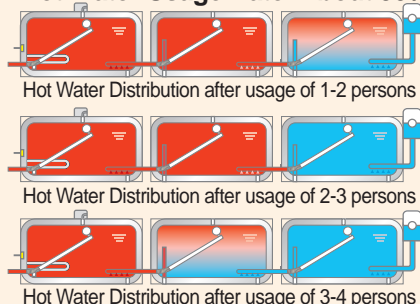
Exposed pipes allow more heat to escape. Structured with curved pipes causes poor circulation and clog.

High Hot Water Usage Efficiency

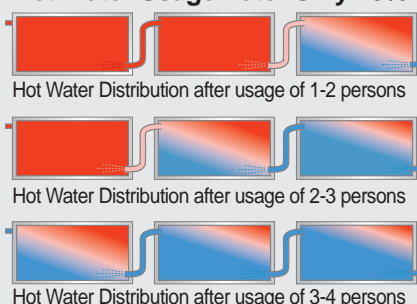
Innovative Design of Stand-alone Tank

- Independent usage of hot water: hot water and cold water are separated. Hot water usage rate is about 90%.
- One-plate-one-tank design makes expansion convenient and economic in the event of increased hot water requirement and number of users

SUNCUE's High Efficiency of Hot Water Usage Rate: About 90%



Others' Efficiency of Hot Water Usage Rate: Only 70%



Patented Design for Cold Water In and Hot Water Out

Floating Outlet for Hot Water Patented floating device ensures the hottest water is always taken from the top of the water storage tank.

Divided Pipe for Hot Water Speed up the flow of hot and cold water inside the collectors and improve the efficiency.

Cold Water Inlet Buffer Controlling cold water to flow gently to the bottom of water storage tank thus preventing cold water from mixing with hot water vigorously.

Exclusively using Open-air Design

In open-air design, hot water in the water storage tank can still be fully used even during power failure or when water supply is cut off. However, in close-air type, hot water is pushed out by cold water intake.

Save Money, Safe, and Convenient

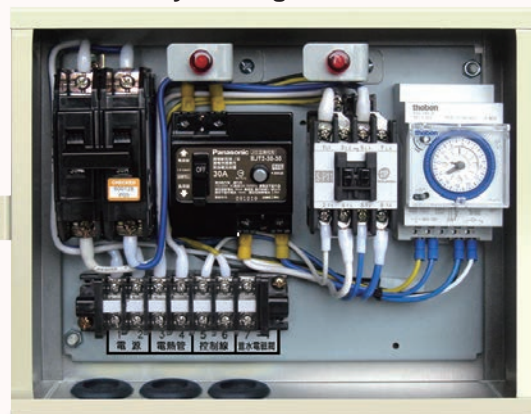
Electrical Auto Auxiliary Heating Device

The back-up heater only needs to heat up one water storage tank if water temperature is lower than set temp value. The heater monitors water temperature during set time slot and automatically heats up water till set temperature is reached. Save power, heat quickly and there is no need to wait for hot water.

8 Safety Devices

- | | |
|---|---|
| ① Anti-explosion Water Storage Tank | ⑤ Breaker for Electricity Leakage |
| ② Temperature Controller | ⑥ Time Controller |
| ③ Breaker for Preventing Heating Empty Water Storage Tank | ⑦ No Fuse Breaker |
| ④ Breaker that prevents overheating | ⑧ Paint-coated Stainless Steel Control Box Case |

Main Control Box of Electrical Auto Auxiliary Heating Device outdoors



Micro-computerized Automatic Heating Control System

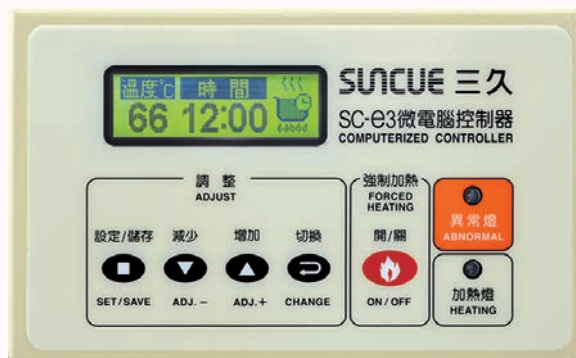
The main control box can be controlled by multiple operation boxes — suitable for operating on different floors.

- | | |
|---------------------------------|---|
| ● Hot Water Temperature Display | Heat collection performance is immediately visible. |
| ● Micro-computer Controlled | Built with touch panel, easy to use. |
| ● Time Set | Activate back-up heater show time — convenient and cost-saving. |
| ● Forced Heating | Heating can be activated anytime — no need to wait for taking a shower. |

Main Control Box of Micro-computerized Automatic Heating Control System outdoors



Micro-computerized Deluxe Operation Box indoors



For tutorial video of using the micro-computer please visit <https://goo.gl/xJe1J9>



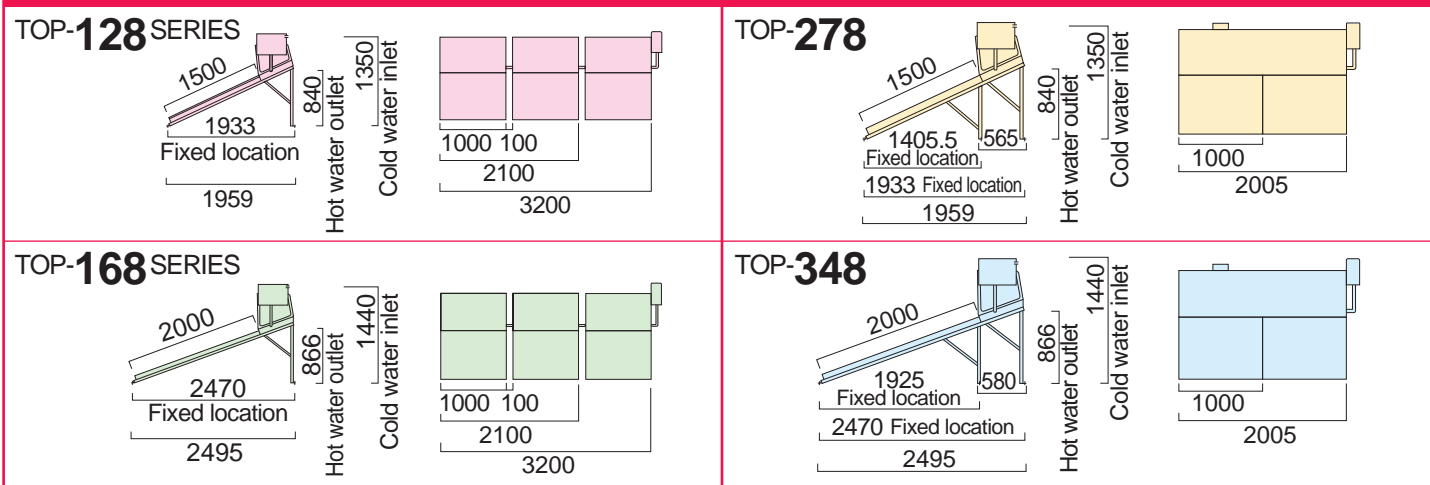
Specification

Item	Model	TOP-128 ^{SERIES}	TOP-278	TOP-168 ^{SERIES}	TOP-348
Solar Collector	pcs	1	2	1	2
Water Storage Tank	liter	128	278	168	348
Recommended Usage	persons	1-2	3-5	1-3	5-7
Collector Surface Area	m²/pc	1.43		1.91	
Collector Size	W×L mm	1,000×1,500		1,000×2,000	
Materials & Unique Features	Collector	Special stainless steel imported from Japan			
	Heat Retaining Tank				
	Solar Collector Absorption Film	Selective absorption film imported from Japan with high absorbing efficiency and low reflection rate			
	Insulation Material	Airtight seal specifically for solar water heater, molded high-density foamed resin and glass fiber; all imported from Japan			
	Cover Plate	Tempered glass specifically for solar water heater			
	The Plate of Outer Hull & Reflective Plate	Non-magnetic SUS304 stainless steel			
	Internal Circulation Pipes	Little heat loss, not exposed to sunlight, strong with long life span			
	Auxiliary Electric Heating	Electrical auto auxiliary heating device ensures hot water everyday			
Stand	HDG angle steel structure				
Weight Approx. kg <small>Including water storage tank, solar collector, water inlet tank and stand.</small>	Empty	76.7	150	91.7	173
	Full	205	428	260	521
Circulation Method		Natural circulation (hot water ascends and cold water descends naturally)			

- The electrical or micro-computer control box for electrical auto auxiliary heating device is optional.
- For region with poor water quality, please consult with your local distributors or contact us.
- While ambient temperature down to zero or liquid water freeze, the pipes inside the Products will be exploded by thermal expansion and contraction of three-phase change of water. Customers must blow down all liquid water inside the pipes of the Products before ambient temperature change hugely.

Dimension

Unit mm



Make a Choice

Please call us for the expertise of SUNCUE.

Step 1: Decide the number of users

1-5 people
 Small family

6-10 people
 Big family

More people
 Preheating for a boiler, hotel, dormitory, hospital, large kitchen, business or organization

Step 2: Decide hot water usage

For bathroom
Bathroom
 About 50 liters per person each day

Bathtub
 About 120 liters per person each day

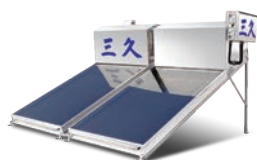
Other bathtub
 To be measured by a professional

For bathroom + For kitchen
 To be measured by a professional

Step 3: Check pattern of water usage

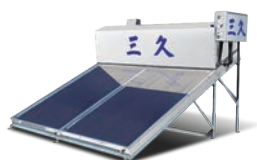
Many low uses over the day.
 Stand-alone tank models

Heavy use in a short time
 High-capacity models



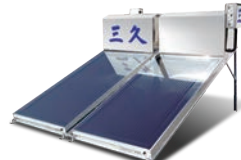
TOP-256

Water tank:
128×2=256 liters
For 3-4 people



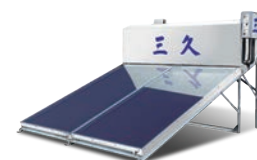
TOP-278

Water tank:
278 liters
For 3-5 people



TOP-336

Water tank:
168×2=336 liters
For 4-7 people



TOP-348

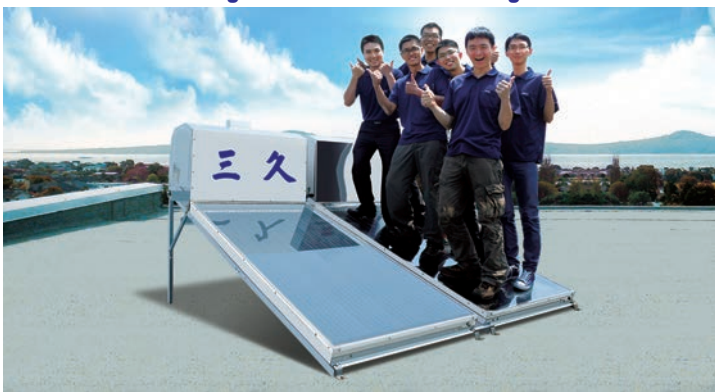
Water tank:
348 liters
For 5-7 people



SUNCUE's Quality Endures Typhoons and Taiwan 921 Earthquake. Strong and Durable!



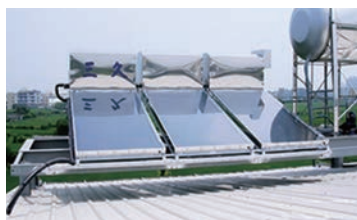
Tempered Glass Specifically for Solar Water Heater Is Used, Making It Extremely Strong and There Is No Issue with Aging. The Glass Is So Strong That It Can Stand The Weight of Six Adult Men.



Can Be Installed on Various Types of Roof



Standard



Tiling roof+construction rack



Terracotta



Parapet wall

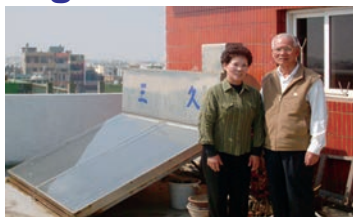
Examples of More Than 30 Years of Usage



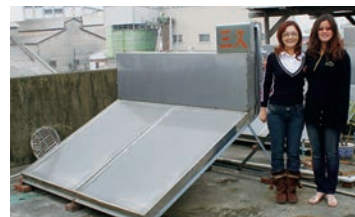
Installed in 1981
Miss Lin in Kaohsiung



Installed in 1988
Mr. Chong in Taichung



Installed in 1988
Mr. Chang in Changhua



Installed in 1989
Mrs. Lai in Chiayi

Examples of Large-scale Installation



200 units of NSK-45
installed in Taoyuan City in 2013



120 units of NSK-45
installed in Kaohsiung City in 2011



102 units of SP-125
installed in Yunlin City in 2004



98 units of NSK-45
installed in Kaohsiung City in 2013



72 units of NSK-45
installed in Kaohsiung City in 2014



96 units of NSK-45
installed in Kaohsiung City in 2010



72 units of TOP-256
installed in Changhua City in 2011



30 units of NSK-45
installed in Pingtung City in 2013

SUNCUE

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Service Center

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