



ATLANTS is specialized in innovative products specially applying latest solar energy technology,

The specialized environmental protection and renewable energy expert consultants and technicians of ATLANTS developed time ago the solar-powered water heater range, probably some of the most efficient models available in the market. ATLANTS deeply believe that for winning the user long-term trust, excellent quality is the key. The product technology is enterprise's core competitive power, the innovation unceasingly, professional first-class equipment, depends on the international advanced solar energy specialized development facilities,

OUR SYSTEMS

- are ideally suited for heating water .
- cut hot water energy bills by up to 87%
- reduce greenhouse gas emissions
- use proven leading edge evacuated tube solar collectors
- are up to 40% more efficient than comparable sized systems
- include a long life marine grade stainless steel storage tank
- are protected against weather conditions and corrosion.
- are maintenance free
- are stylish, compact and competitively priced
- are backed by generous product warranties



Solar Water Heating Systems

Solar energy is a clean and abundant energy resource that can be used to supplement many of your energy needs. Solar energy can be utilized as a form of heat, such as solar water heating, and as electricity, such as solar photovoltaics. Solar water heating systems are commonly referred to in the industry as Solar Domestic Hot Water systems

Consumers often ask if there is enough sunlight in usually cloudy countries like Canada, France, UK, etc.. for solar applications such as water heating. In fact, using correct efficient systems like ATLANTS ones, there is enough solar energy to deliver an average of 2500 kWh of energy per year. This means that a solar water heater can provide enough solar energy to meet about one half of the water heating energy needs for a family of four.

Water heating is one of the most cost-effective uses of solar energy, providing hot water for showers, dishwashers and clothes washers. Every year, several thousands of new solar water heaters are installed worldwide.

We have developed some of the most cost-effective systems in the world. Consumers can now buy "off-the-shelf" solar water heaters that meet industry-wide standards, providing a clean alternative to gas, electric, oil or propane water heaters.



Money in Your Pocket

Every time your business uses a solar hot water heating system, you put money in your pocket. By harnessing the free energy of the sun to preheat water for commercial use, many businesses can save money and contribute to a healthier environment and community., every day, those businesses can reap the benefits of solar energy sooner than they might expect.

Solar heating systems can be readily installed in new buildings or added to existing facilities. On sunny days, solar heaters can produce enough hot water for practically any application.. There are several different types of solar collectors that can meet your energy needs All of them use simple, proven technology, and one of them will be ideal for you.

Who Benefits ?

A solar water heater reduces the amount of fuel you need to heat water because it captures the sun's renewable energy. Solar water heaters can also be used in other applications, for example, car washes, hotels and motels, restaurants, swimming pools, and laundry mats.

Virtually any commercial or industrial application that uses hot water can profit from a solar hot water system. These systems can supply hot water to factory cafeterias and washrooms, as well as to canning, bottling and food processing plants. Here are some other examples: Car washes need large amounts of warm water, and demand generally increases as solar energy becomes available. Since much of this water does not have to be stored, some car washes can use a direct circulation system with no heat exchanger.

Fish hatcheries heat large volumes of low-temperature fresh water to enhance fish growth. Some hatcheries use unglazed solar collectors to provide 25 percent of their annual heating needs. In some cases, they have reduced conventional fuel costs by tens of thousands of dollars.

Apartment buildings, condominiums and university residences are often good candidates for solar heating systems because of the steady demand for hot water. The benefits are even greater if solar collectors are installed close to existing hot water equipment, such as penthouse and rooftop systems.

The hospitality industry uses hot water for laundries and dishwashers and to meet the needs of guests in hotels, motels, resorts, lodges and restaurants. During the summer, commercial swimming pools equipped with solar collectors meet their heating requirements without additional energy



Simplicity and Durability

Solar collectors are located where they can receive the most energy from the sun throughout the day, typically on a roof. These systems can be installed either as stand-alone units during original construction or as retrofit add-ons in existing structures. Different types of collectors can be used in the same system, depending on the application and water temperature required. Modern systems are designed to withstand most of climates, and as with most renewable-energy technologies, maintenance costs – in both time and capital – are low.

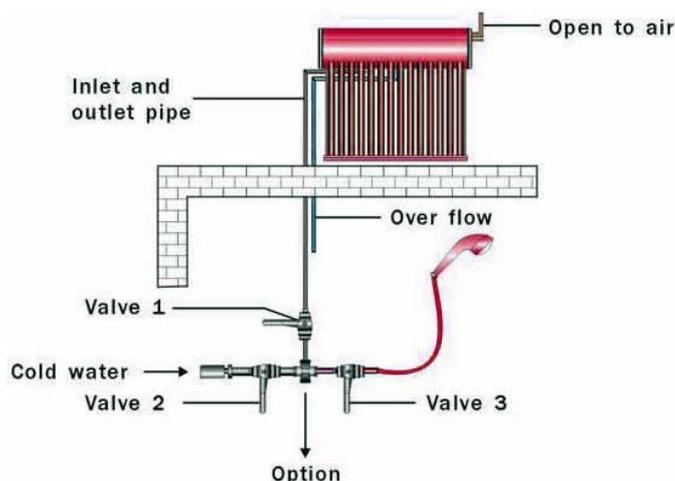
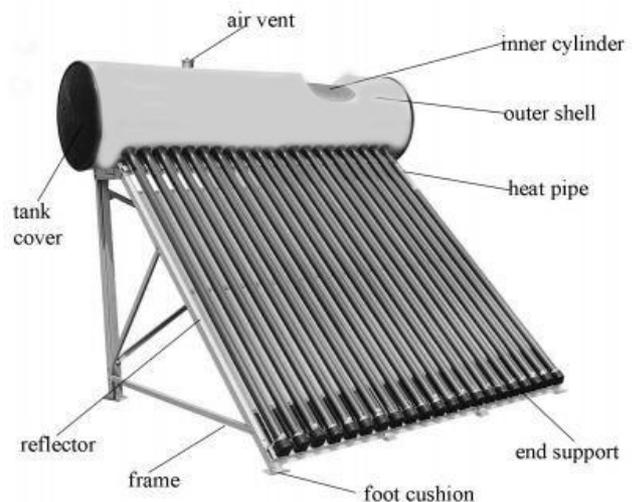
SOLAR WATER HEATER – ALL IN ONE

Detailed Product Description

- Heater consists of a series of evacuated solar tube collectors and a water storage tank
- Can be refilled manually or by low pressure source
- Aerospace technology produces higher water temperatures than other solar systems
- High-capacity heater can provide household hot water needs for most

of the year, depending on location

- It is easy to use and requires very low maintenance
- Mounts on rooftop or elevated area to let gravity do the work
- Can integrate with existing plumbing or operate as a stand-alone system
- Easy installation in 4–5 hours with only a wrench
- Includes stand, mounting hardware and instructions
- A dignifying impression, upgraded style.
- Inner tank: SUS3042B Food Grade Stainless Steel, superior water quality, drinkable.
- Bracket: Adoption of aluminum alloy or profiled bar, elegant and fashionable.
- Vacuum tube: Super heat pipe applied to heat collector no bursting or water leakage.
- Integral collector storage systems. do not use pumps or other electrical components, thereby providing a simple and reliable system.



Features:

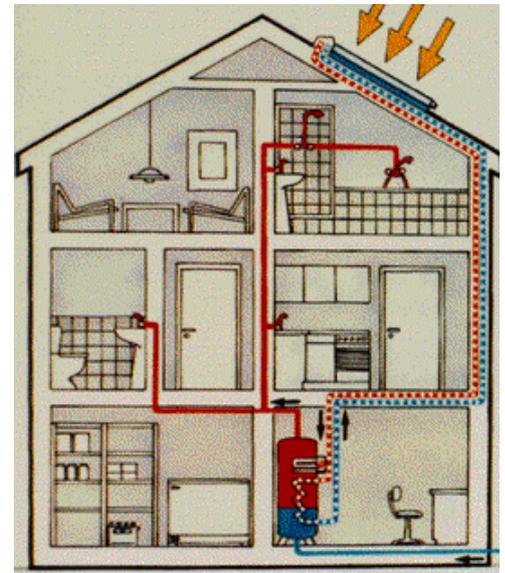
1. Stable and reliable performance and well wind resistance
2. Vacuum heat-collecting tubes at high temperature
3. Dual-purpose brackets for both flat and inclined roof
4. Meeting the demand of well-to-do families
5. Thickness of bracket: 1.5mm
6. Heat-pipe vacuum tube: 58 mm x 1.8m
7. Inner tank: SUS304-2B food grade stainless steel
8. Outer tank: steel, long time durability
9. Insulating layer thickness: 55 - 60mm
10. Inner tank thickness of: 0.4 - 0.5mm
11. Tank diameter: 460mm
12. Heat preservation: 72hrs
13. Hail resistance: 25mm



More efficient than many other models, they perform well in both direct and diffuse solar radiation. This characteristic, combined with the fact that the vacuum minimizes heat losses to the outdoors, makes these collectors particularly useful in areas with cloudy winters. Second, because of the circular shape of the evacuated tube, sunlight is perpendicular to the absorber for most of the day.

THEY CAN BE PLACED IN SEVERAL POSITIONS ACCORDING TO CUSTOMER'S NEEDS

Type	Vacuum Tube size (mm)	Tank Volume (L)	Hot Water (L/day)	Units
				20/40FCL
ATL16	1500×47×16 tubes	90	70-235	55/136
ATL-18	1500×47×18 tubes	110	80-265	52/131
ATL24	1500×47×24 tubes	150	110-350	44/112
ATL30	1500×47×30 tubes	200	140-440	31/79
ATL58-15	1800×58X15	150	108-300	42/107
ATL-58-18	1800×58X18	180	130-350	38/96
ATL-58-21	1800×58X21	210	175-410	36/91
ATL-58-24	1800×58X24	240	200-500	30/77
ATL-58-30	1800×58X30	300	260-580	26/66



SOLAR WATER HEATER – SPLIT SYSTEM

Detailed Product Description

- 1) Working principle of high pressure solar heater: utilizes the alternative absorption coating on the inner surface of the vacuum tube, from the high-temperature environment super-conduction tubes, leads the heat to the water tank, and produces hot water
- 2) Easy to use, also convenient to install
- 3) Can be put in the courtyard, on the roof or balcony
- 4) Inlet water hole connects to the tap water, and the outlet hole connects to the tap water, and the outlet hole produces pressure hot water directly
- 5) Working principle of low pressure solar heater: adopts the alternative absorption coating to absorb the solar energy, heat the water in the vacuum tube directly, through the cold hot water convection, changes the solar energy into heat energy to store in the water tank:
- 6) Adopts the double-deck highly special hard glass tube of boron silicon
- 7) Double-deck glass coaxial structure, intermediate layer releases the vacuum, maintains 5×10^{-2} Pa high vacuum for a long time while in charge
- 8) Magnetism accuse of alternative absorption coating, AL / N / AL of sputter aluminum nitrogen aluminum alternative absorption coating solar radiation absorption rate $\geq 93\%$, and hot emittance $\leq 6\%$
- 9) Long performance life: 15 years
- 10) Endures climate feature: thermal efficiency is good in the whole year

Specifications:

- 1) inner manifold : stainless steel SUS304-2B
- 2) outer manifold:PVDF
- 3) Glass tube dimensions: 47mm x 1.5m x 50 pcs
- 4) Heat preservation: 72hrs
- 5) Hail resistance: 25mm

