

KHALLOUF FUTURE POWER L.L.C

Company Profile

KPF is the premier manufacturer and supplier of solar water heater systems in the Middle East. Over **10 years** of succeed in installing more than **300 commercial projects** and supplying about **35,000 units for domestic** use. Since its inception, KFP has strictly maintained quality control in various production areas, ensuring superior services by its skilled workforce.

our projects were in UAE, KSA, Greece, Lebanon, Syria, Jordan, Egypt, and Algeria.

Technical and commercial support is offered worldwide by Christiani Wasser Technik, GmbH – Germany (CWT).

Our key credits are for our innovative technology, eco-friendly products and services at great value in both domestic and international markets.

We sincerely hope, together in cooperation with our clients, to achieve a cleaner and more eco-friendly world.



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Products available in **KFP** Company :

1- **flat plate solar collectors**: KFP company provide the best flat plate collector in the world. In cooperation with famous companies around the world :

A- **KFP solar collector**: Made by one of the largest manufacture of flat plate solar collector in the world. In Austria



HIGH QUALITY FOR ALL USERS

Brand new: the 7one from **KFP** the OME version from the world's largest collector producer! As an innovative quality product, the new 7one meets the highest technical standards. A collector that satisfies the toughest requirements in collector technology has been developed in close cooperation with experienced experts and international designers.

You too can benefit from the new collector's 7 benefits.



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B- THERMIC Company, Made in Greece



Solar collectors

Case (100mm section) made of anodised or electrostatically powder-painted aluminium profile for extended life.

Galvanised steel sheet rear cover 0.5mm thick.

EPDM rubber and silicone seal for maximum waterproof protection

Heavy duty absorber copper tubes (harp type) laser welded to the absorbing plate for instant heat transmission.

Aluminium absorbing full size plate coated with Chrome-Nickel blue selective layer.

Solar irradiation absorbance factor $a=0.95+_{-2}\%$ and reflection $e=0.5+_{-2}\%$

Insulation with rockwool and glass fibre wool of high density for minimum heat loss

Tempered glass front cover low iron 4mm thick ensuring durability and high transparency factor



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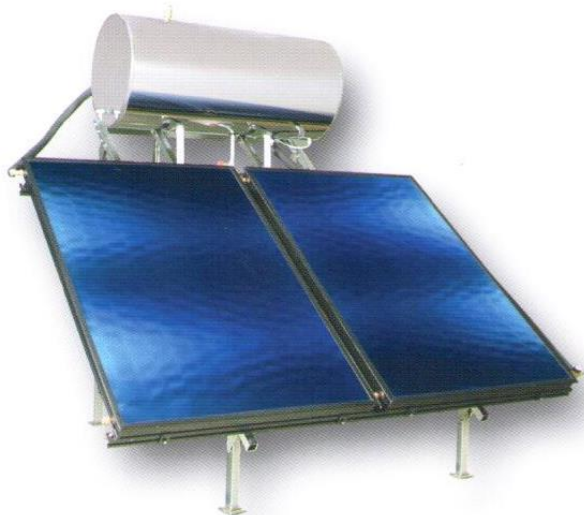
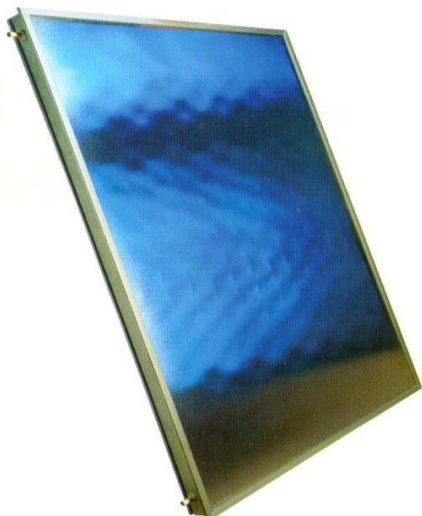
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C- BAYMAK Company, Made in Turkey



BAYMAK a partner of BDR (Baxi, De Dietrich, Remeha) Thermea group, is a world leading manufacturer and distributor of innovative heating and hot water systems and services operating in a market worth over USD 20 billion annual sales.

The working principle of the BAYMAK thermosiphon systems is the thermosiphon effect. Thanks to this principle a heat transfer is established between collector and storage tank by means of thermal fluid circulation by natural convection. The anti-freeze fluid is heated in the collectors by the sun effect, the fluid goes to the storage tank by natural way due to the density difference, increases temperature and transfers the heat to the Domestic water. It is cooled and return to collector by the return tubes. Domestic hot water stored in the storage tank is heated constantly while the sun energy contacts with the collector's surface.



D- Haier company, Made in China

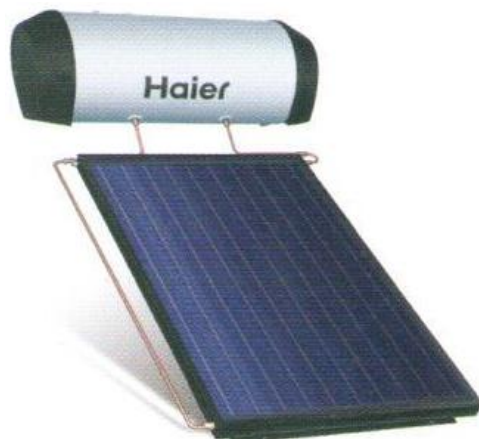
TP-180/300REF/L



FEATURE

- ✓ It is direct system circulating water directly in thermosiphon model.
- ✓ 180, 300 liters available.
- ✓ Optional anti-freeze valve available: to be fixed at the bottom of the collector, it will drip water when temperature drop to 4°C and stop when it reaches to 7°C.
- ✓ Optional thermo-arrest valve for over-heat protection available: to be fixed on the circulation pipe, it will stop water circulation when water temperature reaches to 80°C.
- ✓ Mounting kits optional for flat or slope roofs available.
- ✓ Optional electric heater available for all capacities.
- ✓ Suitable for regions with temperature above freezing point.

TP-180/300JEF/L



FEATURE

- ✓ It is indirect system using glycol circulated in thermosiphon model, the tank and collector are integrated together on the roof.
- ✓ 180, 300 liters available.
- ✓ Adopt jacket tank for heat transfer from glycol to water.
- ✓ Mounting kits optional for flat or slope roofs available.
- ✓ Optional electric heater available for all capacities.
- ✓ Suitable for regions with temperature above freezing point.



Flat



Slope

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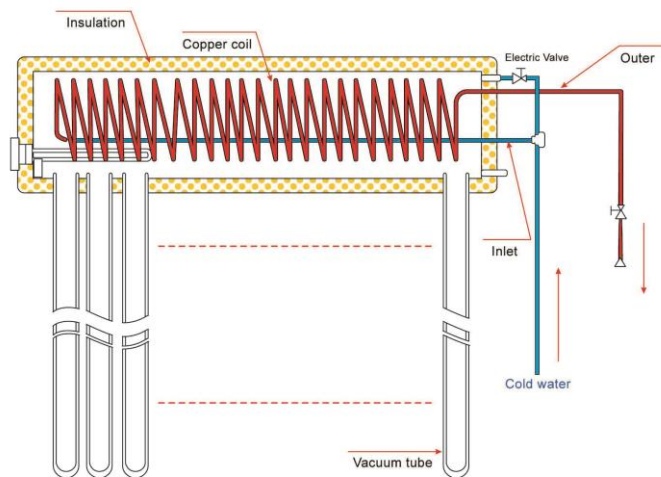
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2- Vacuum tubes solar collectors:

KFP Company, Made in Syria



A- Domestic solar system :



These systems are used to provide hot water for Villas, Houses, farms, Mosques.....etc.

The outer body made of thermal painted galvanized steel . The inner tank made of nutritional stainless steel (SUS 304-2B). The insulation layer between the outer and inner bodies is insulated POLYURETHANE 5-6 cm. thick, wish preserving the heat in the inner tank for several days.

This system are characterized by their high output, quick heating, easy connection and usage. They are equipped with intelligent controller for remote control the system from the house wish enable and secure a consistent temperature for hot water day or night.

The thermal heat exchanger in the tank made of nutritional stainless steel (SUS304) or copper, which guarantees the work of the systems within pressures up to **8 bars**

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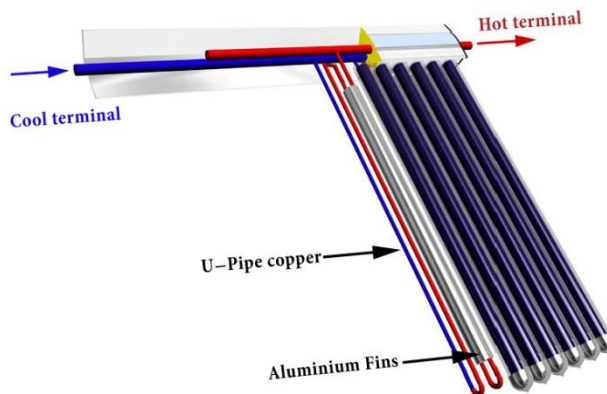
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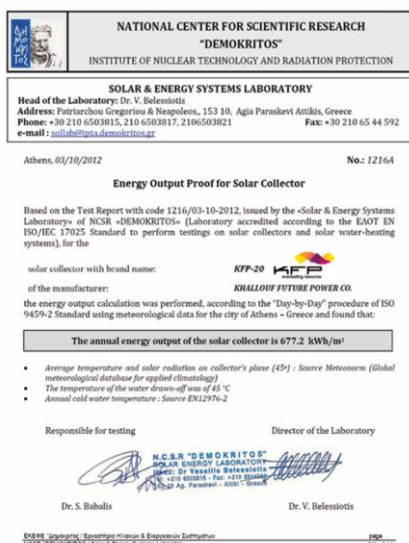
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B- U-pipe vacuum tube solar collector :



The vacuum tubes absorb energy from the sun's rays and convert it into heat which is transferred by the aluminum fins to the copper U-Pipes. The U-Pipes then pass it on to a liquid inside, which is forced to circulate by a circulation pump, thus heating the water tank and other heating systems.



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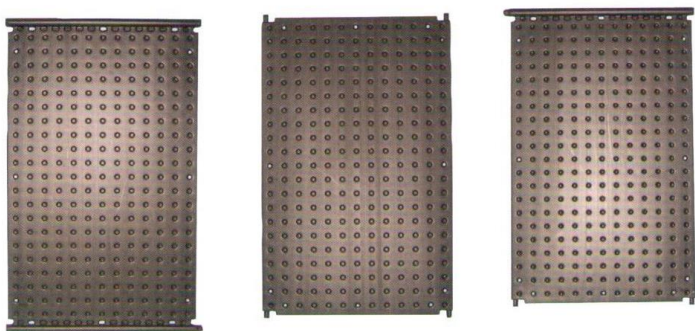
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3- Swimming pool solar collector:

OKU Company, Made in Germany



OKU – solar heating of swimming-pools : The problem is all too familiar. An outdoor, unheated swimming pool, will reach its ideal bathing temperature for only three or four weeks in the height of winter. That is a very short time, when you think of the investment and maintenance you put into it.

An indoor swimming pool has to be heated all year round, even in the middle of summer. Heating a swimming pool using conventional means of energy can be costly and is also a load on the environment. That is why solar energy is the best solution. OKU-solar-panels are especially designed for this application. This is what OKU-solar heating provides: maximum efficiency and the right temperature for your swimming-pool.

Enjoy a warm and comfortable pool temperature with OKU-solar heating. It is a rewarding investment that is powered by the sun's free energy and it is your contribution to protecting the environment.



TÜV-checked

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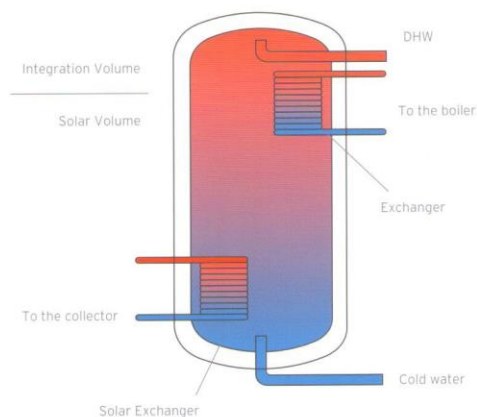
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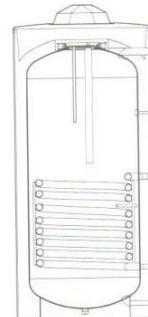
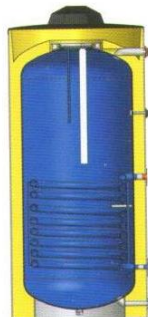
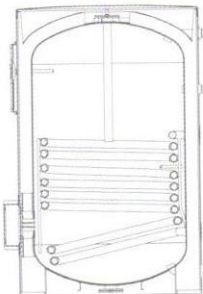
Hot water storage tanks :

Solar storage tanks



Storage tank with single coil

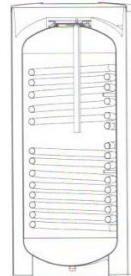
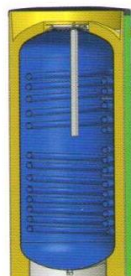
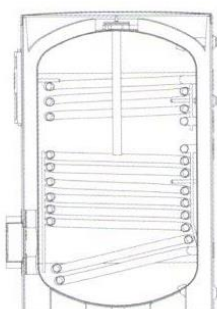
Range: 300 - 1000 Lt.



Range: 80 - 200 Lt.

Storage tank with double coil

Range: 300 - 1000 Lt.



Range: 160 - 200 Lt.

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Benefits of the Remote-Control system:

1. Control of water temperature
2. Ability to feed water manually or automatically
3. Alarm notification when there is a water shortage in the tank
4. Simultaneous control of temperature and water quantity
5. Programming of timing and operation of the electric heater when necessary
6. Light signal notifications to show temperature of activated electric valves, feeding, water volume into the system pump, electric heater, ...etc.
7. Programmable timer for water feeding
8. Possibility to control feeding pumps if required
9. Automatic correction of errors
10. Facilitated adjustment of the water level depending on specific temperatures
11. Automated timer to control temperature.
12. Long memory to save the user settings for 72 hours without electricity

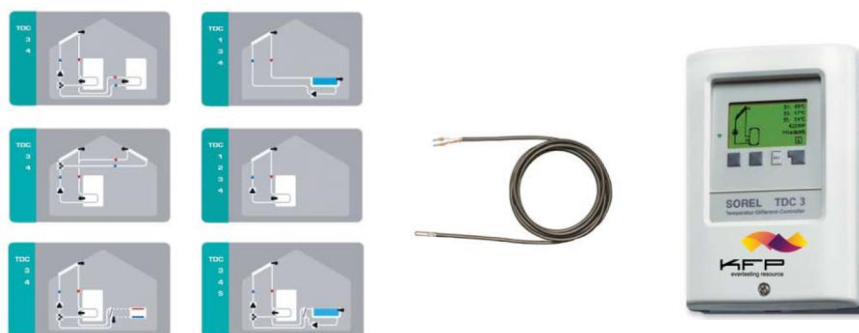


Temperature difference controller TDC:

System operation:

The temperature difference controller (TDC) is made in Germany by digital controller (SOREL).

The system operates according to the ' ΔT ' principle which monitors discrepancies of temperature and the solar power system completely together. It supplies all required information to the user with a great storage capacity of the achieved results from the date of installation of the system and has the possibility to convey the information in data chart.



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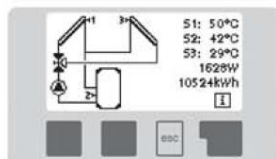
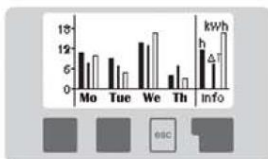
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What most characterizes the system:

- 1- 2 – 6 Thermal sensors PT1000.
- 2- 1 – 3 Exit relays.
- 3- Control way out for the work of the pump of the solar energy system with the possibility of control of its circulation speed inverter.
- 4- Crystal display for data.
- 5- Preservation of data in a curved data chart.
- 6- Differences of temperature monitored all throughout the year.
- 7- Acquired capacity by KW.
- 8- Possibility of choosing the proper program from a number of programs pre-programmed in the system.
- 9- A suitable size for installation in most houses with dimension of L 51 mm – W 110 mm – H 163 mm.



Solar pump groups:

Due to the different assembly options and the special types of housings, the TDC series is appropriate to be integrated into pump groups. The plug-in pre-cabling saves time when assembling.



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Vulcan – Against scale and rust:

Vulcan provides you with an eco-friendly water treatment system which protects your water pipes and equipment against scale and rust. The method is based on the patented Vulcan-Impulse-Technology and treats your water without applying any chemicals or salt. Vulcan offers you individual solutions customized to your specific needs. It is applicable for private, commercial and industrial use.

The 3 Vulcan effects:

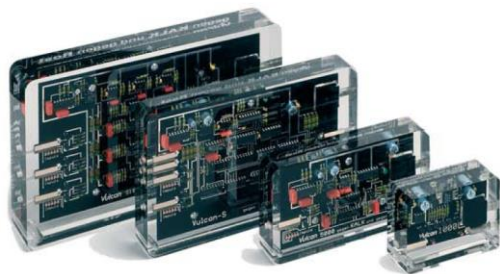
- 1- Vulcan stops limescale deposits on surfaces and in pipes.
- 2- Vulcan cleans the piping system.
- 3- Vulcan protects against rust and corrosion.

The technology:

Vulcan generates a limited electric field which is transferred on the pipe with the Vulcan-Impulse-Cables. This impulse-field achieves two changes : First, it changes the structure of the scale crystals in the water. Secondly, it builds a metal carbonate layer in all metal pipes which prevents the formation of rust and corrosion.

Properties of Vulcan:

- 1- Vulcan is designed for pipe diameter from 10 mm to 500 mm (1/2" to 20").
- 2- Vulcan works on all types of pipes: stainless steel, plastic, copper, iron, compound materials, etc.
- 3- Easy installation: you do not need to cut the pipes.
- 4- Vulcan functions reliably regardless of the speed of water in the pipe.
- 5- Lifetime of Vulcan is long – cast in acrylic.
- 6- Once Vulcan is installed as your anti-scale system. There is no need to do any further maintenance work.
- 7- Vulcan is produced in Germany and comes with a 10 year manufacturer's warranty.



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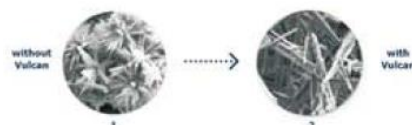
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The 3 Vulcan effects:

1st effect : **Vulcan stops scaling on surfaces**

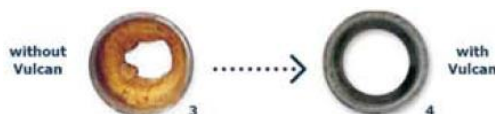
Vulcan-based water treatment does not change the original water quality but modifies the crystallization of the scale. When exposed to temperature increase or decrease of pressure liquid limescale as contained in hard and untreated water crystallizes forming a bur-like structure (pic, 1). These structures stick to each other, stick to surfaces and produce solid scale deposits within a short period of time.



Making use of the natural process of electrophoresis, the patented Vulcan-Impulse-Technology modifies the crystallization of calcium and magnesium. Now, the liquid lime in Vulcan-treated water crystallizes forming "inoffensive" mono-crystal rods (pic, 2). These crystal rods cannot connect to each other and get washed away with the water in the form of fine-grained powder.

2nd effect : **Vulcan sanitizes the piping system**

Two simultaneous processes take place in untreated, hard water. In the first process scale deposits build up when scale crystals connect to each. This first process produces carbonic acid, which simultaneously resolves existing scale deposits within a second process this phenomenon is called the "natural resolving process". As the incrustation process is much faster than the natural resolving process the pipes diameter constantly decreases (pic, 3).



Vulcan protects the pipes against new incrustations: with Vulcan the natural scale resolving process only has to deal with the already existing calcifications. New incrustations do not disturb the process of scale removal anymore and the pipe gets gradually cleaned (pic, 4). As layer always remains on the inside of the pipe.

3rd effect : **Vulcan protects against rust and corrosion**

When the pipe gets into contact with aggressive, hard water an oxidation process takes place this happens especially to pipes made of copper, iron or galvanized iron (pic, 5). This damage by rust and oxidation seriously affects the pipe surface and produces pitting corrosions.



The Vulcan-Impulse-Technology generates a controlled electrophoresis which produces a protective metal-carbonate layer. According to the pipe material, this layer consists of copper-carbonate, iron-carbonate or zinc-carbonate and settles on all blank surfaces.

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Heat Pump Chiller (cold portable water provider):

Air source heat pump is technology accomplished by moving a refrigerant through the heat pump's indoor and outdoor coils. Base on the fourth generation technology wish in driven by only a little electricity.

The chiller provide 130 – 150 liter of cool water per hour at (25°– 28°). It consumes only 0.85 kW/h.

The system contains external heat exchanger to cool the portable water and to insure the healthy cooling and high efficiency.

The chiller will be connected to the mean portable water tank through small pump driven by the chiller controller.



Model	Cooling Capacity		Rated cool water temperature C°	Power Supply V/Hz	Rated input power Heating/Cooling kW	Rated input current Heating/Cooling A	Ambient Temperature C°	Compressor Type	Noise dB A	Piping Diameter mm	Suction Pressure Mpa	Cool water Volume L/h	water Flow Volume M³/h
	KW	BTU/h											
FC-KFXRS4 I Customized FC-KFXRS6 I	2.7	9200	Default 25°C, adjustable between 15°C. ~ 35°C.	220V~50Hz	0.85	3.9	-7~50	Hatachi/1	50	DN20	0.3~0.8	130-150L/h	1.0

Three in One Heat Pump:

A new energy saving technology wish is great solution for Golf area.

The system can provide COLD water, with the minimum electricity consumption using Copeland high efficiency compressor. High energy and flexible swirl design ensure the stable working and long life of the block.

Technology:

Air source heat pump is technology accomplished by moving a refrigerant through the heat pump's indoor and outdoor coils. Base on the fourth generation technology wish in driven by only a little electricity, then constantly absorb great heat from air, it equivalents that 1 KW electricity can make 4 KW heat.

System:

Air source heating system consists of heat pump machine, buffer tank and water pump and relevant valve. An air source heat pump is made up by compressor, water – two sides heat exchanger, throttle valve, low pressure liquid storage tank and water valve in combination with solar system we can provide hot water and cold water in a very small energy with more than 80% saving.



Model	Heat Capacity		Cooling Capacity		Rated Input Power Heating/Cooling (kW)	Rated Input Current Heating/Cooling (A)	Hot Water Volume (L/h)	Heat Exchanger	Power Supply (V/PH/Hz)	Max Water Outlet Temperature (C°)	Refrigerant/ Volume (Kg)	Noise dB	Dimensions (mm)	Net Weight (Kg)
	KW	BTU/h	KW	BTU/h										
FC-KFXLR12 I	12	40900	7.5	25600	2.8	5.3	240	High efficiency tube in shell	380V3N/50Hz	default 55°C, Adjustable between 30-60°C	R407C/1.3	55	760*680*680	100
KF-KFXLR19 II	19	64800	13	44000	4.5	8.5	405				R407C/1.8	55	900*800*800	130
KF-KFXLR38 II	38	129000	25	85000	9	17	810				R407C/2.3*2	60	1050*720*1400	250
KF-KFXLR91 II	91	310000	63	215000	20.2	39.8	1950				R407C/4.5*2	65	1790*890*1990	850

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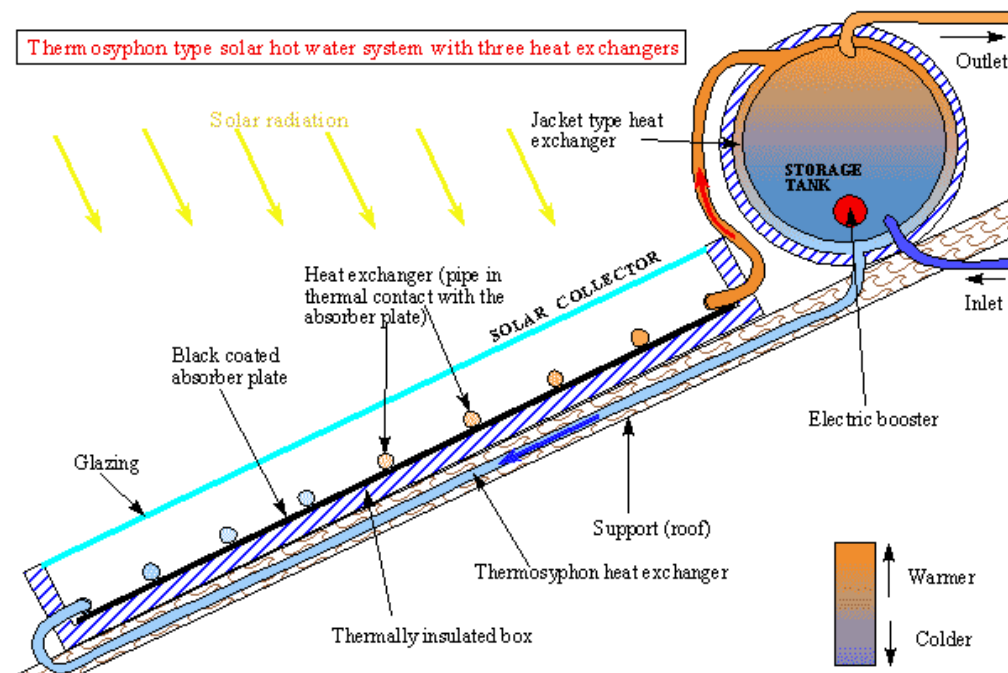
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Applications:

- Hotels & Hospitals: we are able to provide our clients with the require quantity of hot water (55- 60)C ,and acceptable domestic water (25 - 28) C,



DIP HOTEL - UAE - Dubai - Capacity: 10000 L/D



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- Industrials: Factories, Slaughterhouse, or any entail of hot water for any use and volume, it's yours with minimum cost and maximum environmentally.



TenCate - UAE - Dubai - Capacity: 12000 L/D

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- Swimming Pools & Aqua Park: Our expert engineers will provide you with best solution to warm your Pool or Jacuzzi or any others application and enjoy your aqua treatment with economic and eco-friendly consideration.



Villa in Mirdif - Dubai - UAE - Capacity: 100 M³



- Villas & Houses: install Central solar water heater and forget the headache of electricity bill and electric heater problems.

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- **Quality always:** with our High quality products get our grantee certificate for one year running system and five years for the products.
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Clean Healthy World



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