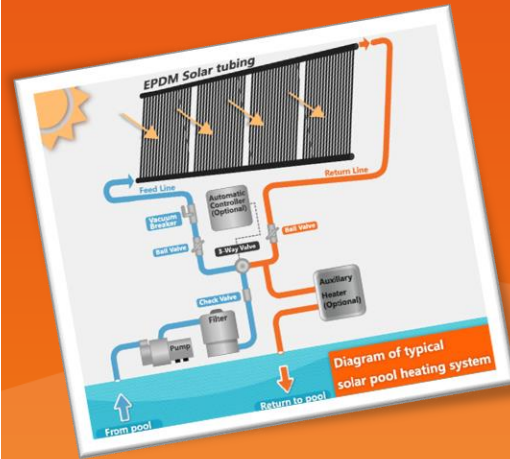




Theory & Conditions

How Does It work?

1. Water is pumped from the spa or swimming pool through a multi-tube solar collector,
2. The solar energy collected by the absorber is transferred to the water during its journey.
3. As the water passes through the solar collector it is warmed by the sun
4. Then the heated water returned to the pool.



Location, Time, Tool Requirements.

1. Location And Time

The solar collector shall be positioned facing sun as much as possible for a maximum efficiency. Ideally 30 deg. (above horizontal) facing south/east. Position collector achieve a minimum of 6 hours of direct exposure to the sun every day will optimize performance. Larger systems can compensate in non ideal installations.

2. Tools & Fittings Requirements

Tool Required: Drill/Extruder Gun (for adhesive tubes) / Mini wallpaper roller / Screw drivers/ Hacksaw knife.

Fitting Required and optional accessories:

Booster Pump/Solar Controller/Non return valve.ect.



EPDM Solar Pool Collector

Make your own pool free



Material	NBR + PVC
Size	1330*3000mm
Hardness	65°±5°
Net Weight	2.86Kgs/ m²
Weight after fill in water	4.61Kgs/ m²
Tensile Strength	≥6.0±250 Mpa
Elasticity	70% ≤80%
Thermal Conductivity	< 2(100°C×168 h)≤3.0 W
Active Temperature Range	+180°~ -40°(No Burst)
Density	1350Kgs/m³
Features	Flexible, Water Rsistant
Chemical Resistance	Chlorine, Ozone, Ultraviolet Radiation, other pool-chemicals

System Calculation & Maintenance

Recommended minimum pool coverage is 70%

Calculation Example: Rectangle Pool Metres 8m in length x 4m in width x 2m in height coverage required.

- Measure your pool i.e. 8m in length x 4m in width x 2m in height = Pool area 64 m³_{SEP}
Recommended minimum pool coverage is 70% = 44.8 m²_{SEP}. Each pre-fixed is 1x4m² = 4m², so you require 11pcs of pre-fixed to cover a 64 m³ pool (70% = 44.8m²)

- Ideally Solar Panels should face in a southern position. - Direct sunlight for a minimum of 6 hours every day._{SEP} Larger systems can compensate non ideal installations.

Maintenance

Solar saves on pool heating costs



And the really big benefit of a solar pool heating system, once installed, is that it runs on the sun's energy, so it will cost you next to nothing to keep your pool at around summer swimming temperatures for extra months of the year.
Compared with gas, oil, or electric pool heaters, our solar pool heater will pay for itself in savings, at times in as little as one year. With the constant rising energy costs, heating a pool with a free and renewable energy source the sun only makes sense.

Our Advantages

- Solar Pool Heaters are Eco-friendly and produce clean energy and will not harm the environment.
- Solar Pool Heating Systems can literally double the amount of time you can comfortably use your pool and adds real value to your pool and home.
- Solar Pool Heating can pay for itself in a very short period of time, depending on the system used and installation.
- Solar Pool Heating Systems reduce your energy usage will give you real dollar savings every day. An average home can expect to save around \$300* off their energy bills - year after year.
- Solar Panel roll is made from NBR+PVC, Which is virtually immune to ultraviolet radiation and ozone, highly resistant to pool chemicals and harsh climate, Recommend minimum pool coverage is 70%

-The real biggest benefit of a EPDM solar collector pool heating system, is once you installed, it runs by the sun energy, so it will cost you nothing to keep your pool at through all the summer swimming temperature for extra months of the year.

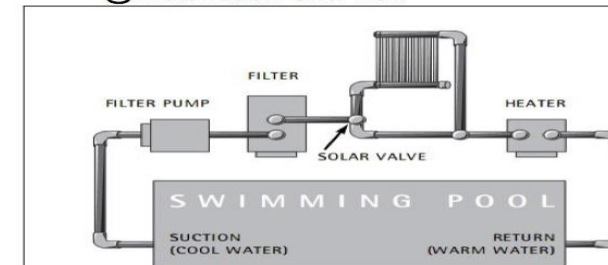
-Easy repair and replacement.

Installation



Direct Solar Pool & Spa Heating Systems Supplier

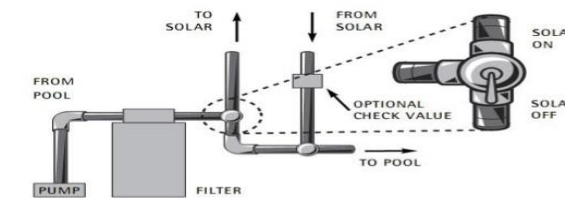
@ Installation Overview



Follow Manufactures instructions to install automatic control panel, motorized valve and control sensors.

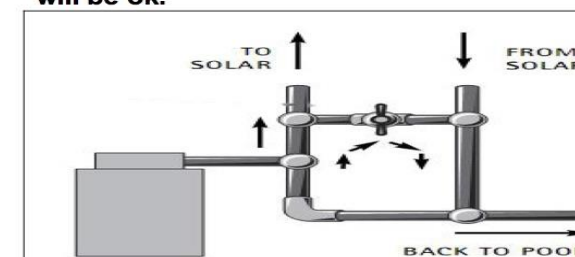
@ 3-Way Control Valve

PLUMBING 3-WAY CONTROL VALVE



@ High Pressure Solution

As to solar pool heater mat, the working pressure is 0.2—0.8 bar will be ok.



If pressure is too high through solar heating systems, install a Ball Valve between the feed and return lines.