POOLMASTER®
We Make Water Fun!

Solar Heating For Above-Ground Pools PANELS

59010

Pre-installation:

Prepare an area where there is maximum sun exposure during the day. The longer the collectors are in full sun exposure, the better the system will work. Determine desired method of installation and prepare for solar panel mounting.

If you are mounting the panels at an angle, make sure the panels are facing south and are at a 40 degree angle from the ground.

Two hoses (sold separately) are required for completing installation. The hose that connects your filter to the panel assembly is called the Feed Hose. The hose that connects the panel assembly to your pool is called the Return Hose. Please see your local dealer for the desired length of hose for your system.

System assembly and installation instructions:

1. Assemble the panels as shown below.
2. Turn off the pool pump.
3. Plug the return inlet from the inside of the pool to prevent your pool's water from draining.
4. Connect the panels to the filter with the Feed Hose. Use provided hose clamp [F or G (depending on the size of the hose ends)] to tighten the Feed Hose to the filter.
5. Connect the panels to the pool with the Return Hose. Use provided hose clamp [F or G (depending on the size of the hose ends)] to tighten the Return Hose to the pool.
6. When all connections are secure, remove the plug inside your pool at the return inlet.

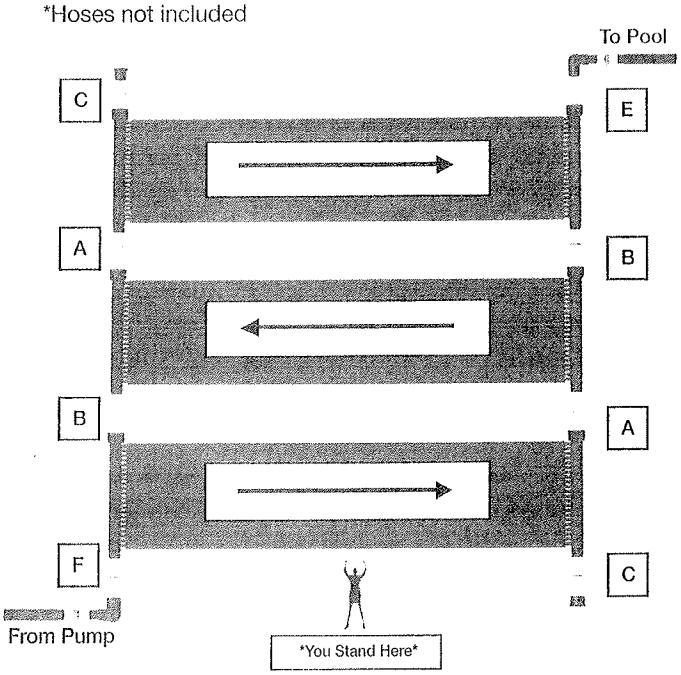
Panel Assembly Instructions

1. On a flat surface unroll all 3 solar panels. Let them sit in the sun for 30-60 minutes so the material can relax. Make sure the female outlets located on each panel are facing away from you.

   CAUTION: DO NOT OVER TIGHTEN THE CONNECTIONS TO PREVENT DAMAGE AND POSSIBLE LEAKAGE.

2. Install one O-ring [I] in each location marked A. Twist and lock panels.
3. Install one Baffle [H] and one O-ring [I] in each location marked B. Twist and lock panels.
4. Install one Male Cap [D] and one O-ring [I] in location marked C. Twist and lock Male Cap to panel.
5. Install one Female Cap [E] and one O-ring [I] in location marked D. Twist and lock Female Cap to panel.
6. Install one Male Elbow Fitting [C] and one O-ring [I] in location marked E. Twist and lock Male Elbow Fitting to panel.
7. Install one Female Elbow Fitting [B] and one O-ring [I] in location marked F. Twist and lock Female Elbow Fitting to panel.
8. Use the included hose clamps to tighten the Feed Hose* (from Filter) and Return Hose* (to Pool) to panel assembly as shown in the figure.

*Hoses not included



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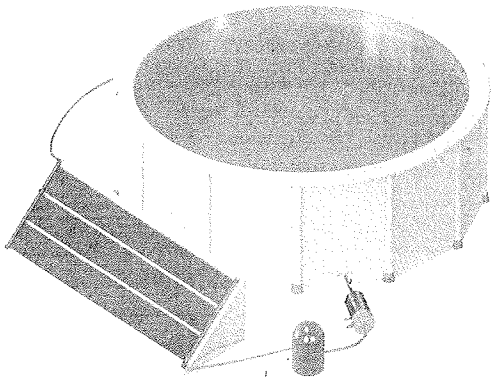
Quick Facts:

Solar energy is clean, sustainable, and free!

Following the recommendations on the usage chart, the solar panels can increase your above-ground pool water temperature by as much as 15° F.

Solar panels are most effective when they are placed in full sun for at least 6 hours a day.



How solar panels work:

Cold water circulates through your existing pool pump, filter and into the solar panels.

The circulating water is heated by the sun as it is pumped through the solar heating panels.

The warmed water returns to the pool through the return hose.

Design:

The circular tube design allows the sun to heat the panels from various angles.

Made with durable plastic materials that will not rust, corrode, or deform.

Quick connect design for easy assembly.

Cross-Section of Solar Panel

Winterization:

During the winter season, drain your solar panels and store in a location where they will not freeze to help prevent damage.

CAUTION:

FOR ALTERNATIVE MOUNTING METHODS AND INSTALLATIONS, IT IS RECOMMENDED THAT YOU CONSULT A PROFESSIONAL.

INSTALLING THE PANELS DIRECTLY ON GRASS IS NOT RECOMMENDED AS IT MAY BURN AND DAMAGE THE GRASS.

DO NOT BUILD A SUPPORT STRUCTURE THAT CAN ALLOW CHILDREN ACCESS INTO THE POOL OR PLACE THE SUPPORT STRUCTURE TOO CLOSE TO THE POOL.

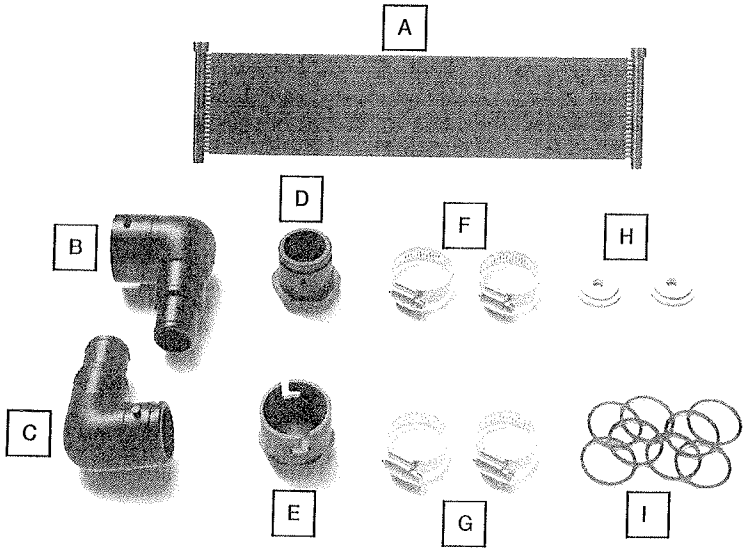
Parts List:

Included:

A: 3 x Solar panels
B: 1 x Female Elbow Fitting
C: 1 x Male Elbow Fitting
D: 1 x Male Cap
E: 1 x Female Cap
F: 2 x Hose Clamps (27 – 51mm)
G: 2 x Hose Clamps (21 – 44mm)
H: 2 x Baffles
I: 8 x O-rings

Needed:

2 x Hoses (Length will depend on your layout)
1 x Phillips Head Screwdriver



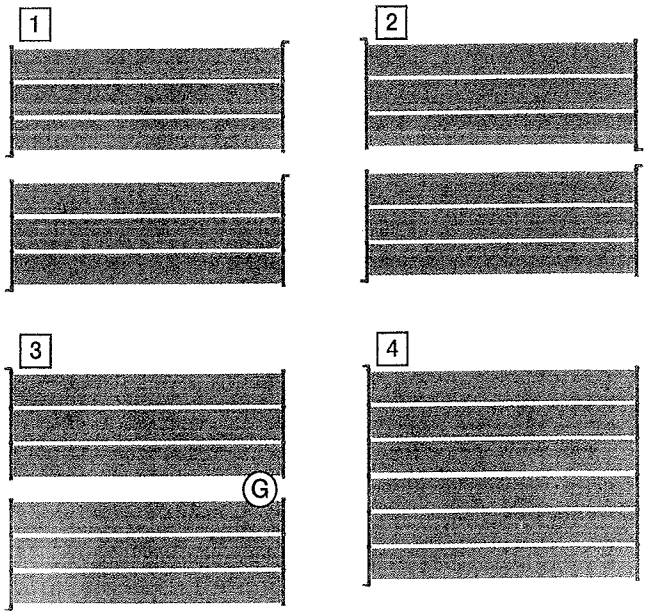
Connecting Two Panel Systems:

1. Assemble each panel as shown in the Panel Assembly Instruction section.

2. Orientate 1 assembly likeshown in the figure to the right. Flip the 2nd panel assembly, from right to left, as shown in the figure to the right.

3. Take off both fittings in the location marked G.

4. Connect the two panel assemblies at the location marked G.

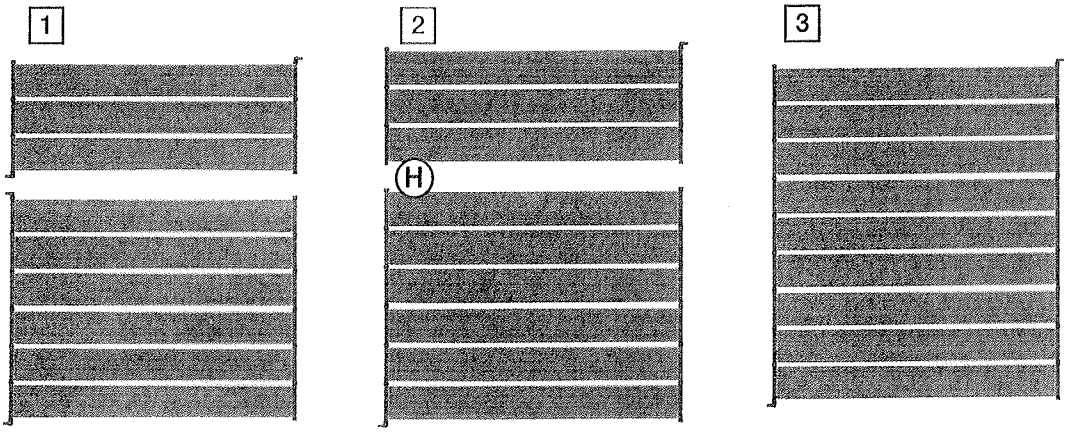


Connecting Three Panel Systems:

1. Complete the steps for connecting two panel assembly systems. Assemble the 3rd panel as shown in the Panel Assembly Instruction section.

2. Take off both fittings at the location marked H.

3. Connect the 3rd panel assembly to the two-panel assembly at the location marked H.



Startup:

1. Check all your connections to be sure they are tight.
2. Turn on your pump and check for leaks or improper connections.
3. You may see bubbles in your pool at the return inlet. This is the system purging the air out of the solar panels.

Operations:

The panel surface may feel cool to the touch when in operation, indicating water is circulating through the tubes as it is heated.

For best results, turn off pump during the evening and utilize a well-fitted solar blanket (sold separately).
The use of a solar blanket should insulate your pool during the night.

Only circulate your water through the solar panels during daylight on warm days.
Heat will escape if you let the water circulate when the ambient temperature is cold.