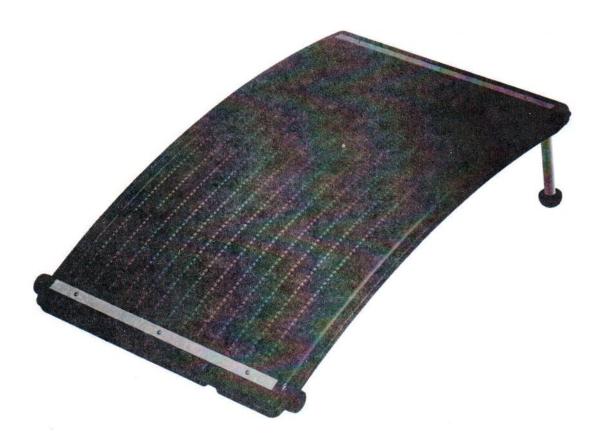


Solar Heater INSTALLATION AND INSTRUCTION MANUAL



Read all instructions **BEFORE** assembling and using it. **RETAIN THIS MANUAL FOR FUTURE USE**.

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The solar heater is designed and built to our highest standards for reliability, durability, ease of use, and safety. Follow these instructions, and it will keep your pool warm for years to come. Thank you for your purchase!

Important Safety Information



WARNING! POSITION THE SOLARARC SO THAT IT DOES NOT PROVIDE ACCESS TO THE POOL FOR CHILDREN.



WARNING! MOUNT ON GROUND. DO NOT MOUNT ON A ROOF OR STANDING STRUCTURE.

Caution:

The solar heater is intended for ground installation next to your pump and filter system. Please ensure it is set up in a way that does not allow children to access the pool. We recommend installing it on the ground rather than mounting it on a roof or any elevated structure, as this could damage both the solar heater and the mounting surface, potentially voiding your warranty.

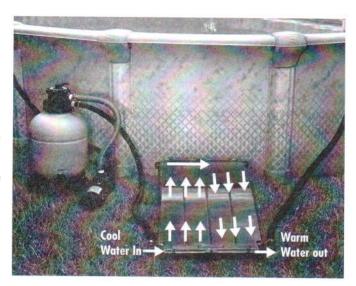
Important

- Ensure you read this manual thoroughly, as failing to follow instructions could result in injury, death, or damage to the solar heater.
- Do not allow children to operate the solar heater. Install far enough from the pool to prevent it from being used as a way to access the pool.
- Always turn off the filter system when installing, servicing, or working on the solar heater.
- When loosening any threaded connections on the filter, pump, or pool, make sure the filter hoses are closed or blocked to stop water flow.
- Keep all connection hoses as straight as possible.

NOTE: Be sure to place your solar blanket on at night to help retain the heat generated by the solar heater.

How the solar heater works:

Water from your pool's filter enters the solar heater through the bottom left corner (inlet). A built-in plug in the lower header pipe directs the water upward through the left side of the heater. Once it reaches the upper header pipe, the water moves across to the right, then flows back down through the right side. As it travels through the heater, the water absorbs heat from the sun. Finally, the warmed water exits through the bottom right corner (outlet) and returns to your pool.



Where Should I Put The Solar Heater:

- Choose a hard, level surface
- The unit(s) should never be placed on a roof, or any other structure
- Install solar heater on the ground in a location where it will receive at least 6 hours of direct sunlight a day
- The unit(s) should be angled toward the sun using the legs provided

NOTE: The solar heater is to be installed between the filter and the pool water inlet. Solar heater must be placed after the filter to prevent buildup of dirt/debris in the tubing.

NOTE: If the solar heater needs to be further from the filter than the hoses allow, you may need to purchase a longer hose with the $1\frac{1}{2}$ " diameter openings, or connect 2 hoses together using a $1\frac{1}{2}$ "- $1\frac{1}{2}$ " coupler (not included). In this case make certain you have two hose damps to secure the hoses to the coupler. If the hoses are too wide to fit the hose connector, put the $1\frac{1}{2}$ " tube reducer on the hose connector and continue.

CAUTION

Ensure ALL hoses connections are tight and hoses are NOT kinked or bent at severe angles. If the hoses are leaking, check to make sure ALL of the parts that have O-Rings have them attached and are screwed on tightly. DO NOT over tighten hose clamps.

NOTE: The short rubber hose (see parts photo on parts list under letter J) is only used to connect multiple solar heaters together.

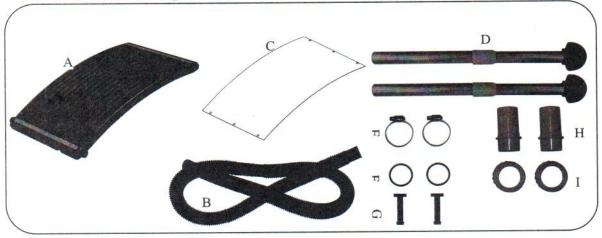
What Tools Will I Need?

A flat head screwdriver or 5/16th" nut driver.

When Should I Run The Solar Heater?

The solar heater works best when the sun is shining.

Parts Lists (Standard package):



Ref. No.	Description	QTY
A	Main body	1
В	1-1/2 Flex hose	1
С	PC Transparent board	1
D	Aluminum legs	2
Е	11/2" Stainless Steel Clamps	2
F	O-ring	2
G	I-Shaped bolt	2
Н	Pipe Adaptors smooth	2
I	11/2" PVC Couplings	2

Component Parts List:

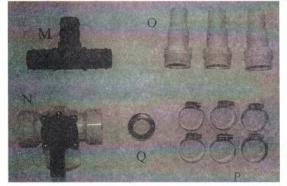
(Sold separately. Not included in standard package)



Ref. No.	Description	QTY
J	Pipe Adaptors barbed	2
K	Short robber hose (for the multiple connection)	1
L	11/2" Stainless Steel Clamps	2

Dividing Valve Lists:

(Sold separately. Not included in standard package)

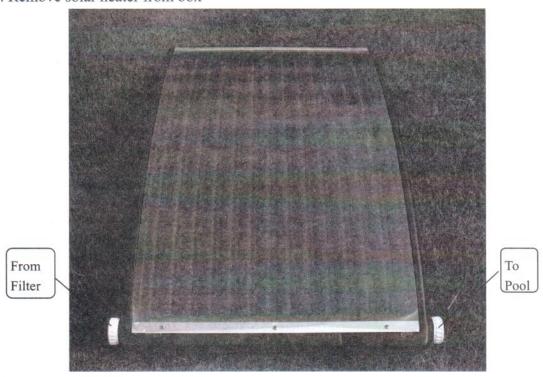


Ref. No.	Description	QTY
М	T-type adaptor	1
N	Three-way valve	1
0	Adaptor 11/2" male threaded	2
P	11/2" Stainless Steel Clamps	6
Q	Teflon tape	1

Installation

NOTE: We suggest to wrap ample amounts of Teflon tape on the ends of all threaded headers and pipe adapters.

1. Remove solar heater from box



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2. Taking PVC couplings off from inlet and outlet





3. Putting O-ring on the pipe adaptor (smooth). Attach coupling and pipe adaptor to outlet and inlet, tighten it.





4.Plug return fitting in pool to ensure no water loss when disconnecting hose from return.

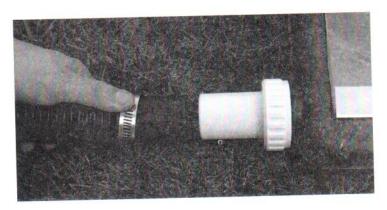


5. Make sure filter is turned off so no water flows out of the filter when disconnecting return hose from the swimming pool return and connecting to the solar heater.

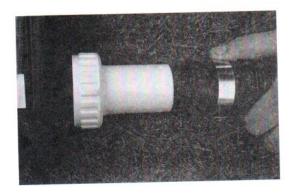




- 6. Disconnect flex hose from return fitting.
- Take the hose end removed from pool return and connect to hose adaptor attached to the header. Tighten hose clamp with screwdriver.

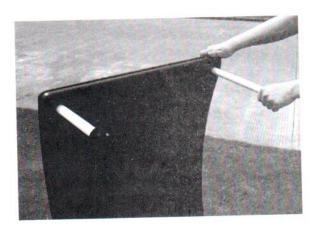


8. Connect provided flex hose to the end labeled "To Pool" and the opposite end to the return fitting. Tighten hose clamp with screwdriver.



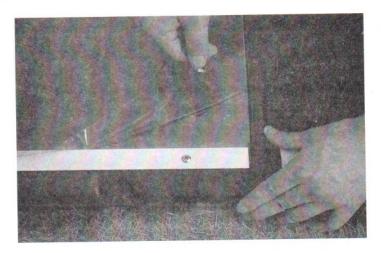


9. Put the Aluminum legs on the solar heater and insert I-shaped bolt



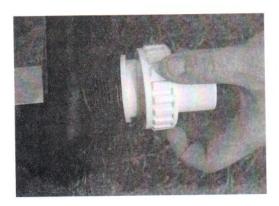


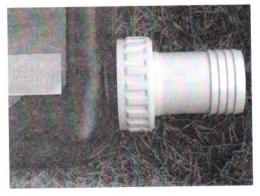
10. Remove protective film from glazed clear cover.



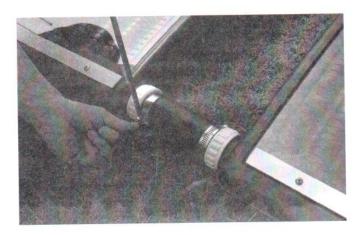
Multiple solar heaters can be installed in series for larger pools and/or for more rapid heating. To connect multiple units together, use the provided rubber hose and hose damps to join the solar heater together at the lower end.

1. Using barbed hose adaptor to instead of smooth hose adaptor for the two connection outlet and inlet.





From the first solar heater's output use the rubber hose connector and 2 hose clamps and connect to second solar heater.

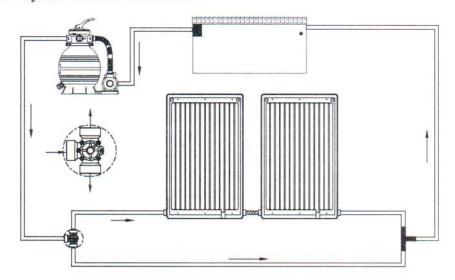


Solar heater should be installed with dividing valve

Using dividing valve could lower the heater's pressure that could longer the heater's service life. The dividing valve will not influence the heater's working efficient.

1. Three-way valve should install between the solar heater and filter and T-type adaptor should set between the solar heater and pool.

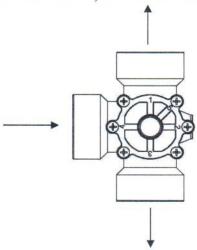
The picture is for your installation reference



Manual for three-way valve:

The handle on the three-way valve could adjust the water flow, the No.4 is for the water inlet and No.1 is connected with solar heater

If the using 0.25HP to 0.75HP pump, the handle is better sitting on No.2 position If the using more than 0.75HP pump, the handle is better sitting on No.5 position If the pump is less than 0.25HP, the handle is better sitting on No.3 position



Winterization:

The solar heater MUST BE DRAINED FOR WINTERIZATION! FREEZE DAMAGE IS NOT COVERED UNDER WARRANTITY! YOU MUST DRAIN THE SOLAR HEATER JUST LIKE YOU DRAIN THE REST OF YOUR POOL EQUIPMENT! It is always best to store your solar heater inside a warm, dry place for winter storage.

Troubleshooting

Problems	Possibilities/Solutions	
Solar heater does not appear to be heating the pool	 Make sure that water is flowing through solar heater by checking the flow at the pool return 	
	Note the weather – has it been cloudy or raining	
	Use your pool cover at night to reduce heat loss	
	Refer to our order guide – pool size may require additional solar heater	
Bubbles continue to appear from the pool water inlet during operation	 Check the connections for leaks Check the flow rate Check the tubing for leaks or clogging 	
Solar heater leaks	Make sure connectors and hose clamps are tight and not defective	