

Doheny's[®]

Pool Supplies FAST!

SolarDome Heater System

Item # 8413, 8414 & 8415



INSTALLATION & INSTRUCTION MANUAL

Please read all instructions carefully before installing your system. Your warranty and your enjoyment of the SolarDome Pool Heating System is affected by the proper installation of this product. The solar heater has been engineered and manufactured in our highest standards for dependability, durability, ease of operation and safety. Follow these instructions, and it will heat your pool for many years to come. Thank you for purchasing.

IMPORTANT SAFETY INFORMATION

Caution: The solar heater is designed to be installed on the ground next to your pump and filter system. Please ensure that the installation does not provide children access to the pool. The recommended installation is on the ground and not mounted on a roof or standing structure. Doing so could damage the solar heater and the mounting surface and void your warranty.

Important:

- Carefully read this manual. Failure to comply with these instructions can cause injury, death, or damage to the unit.
- Do NOT allow children to operate solar heater.
- Always turn the filter system off when installing, working on, or servicing the solar heater.
- Install solar heater far enough away from the pool to prevent children from using it as a way to access the pool.
- When loosening any threaded connections on your filter, pump or pool, be sure that the filter hoses are closed or blocked to prevent water flow.
- Please try to keep all the connection hoses straight.

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

How SolarDome works:

Water flows from your pool's filter into the bottom left corner (inlet) of the solar heater. A plug built into the lower header pipe of the solar heater forces the water up through the left half of the unit. When the water reaches the solar heater upper header pipe, it flows to the right and back down through the right half of the solar heater. As the water travels through the solar heater, it is heated by the sun. The heated water then flows out of the bottom right corner (outlet) of the solar heater and back to your pool.



What Tools will I need?:

- All you need is a flat head screwdriver or 5/16th" nut driver.

When Should I Run the SolarDome?

- The solar heater works best when the sun is shining.

Where should I put the SolarDome?:

- Choose a hard, level surface.
- The unit(s) should never be placed on a roof, or any structure.
- Install dome 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. SolarDome must be placed after the filter to prevent buildup of dirt/debris in the tubing.

NOTE: If solar heater needs to be further from the filter than the hoses allow, you may need to purchase a longer hose with the 1½" diameter openings, or connect 2 hoses together using a 1½"-1½" coupler (not included). In this case make certain you have two hose clamps to secure the hoses to the coupler. If the hoses are too wide to fit the hose connector, put the 1¼"-1½" 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 C) is only used to connect multiple solar heaters together.

Troubleshooting

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
- Pool size may require additional solar heater

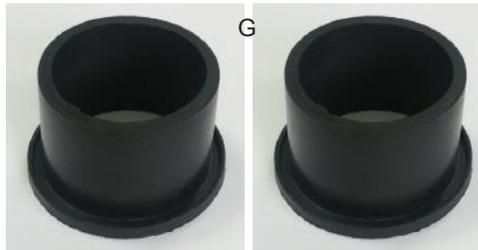
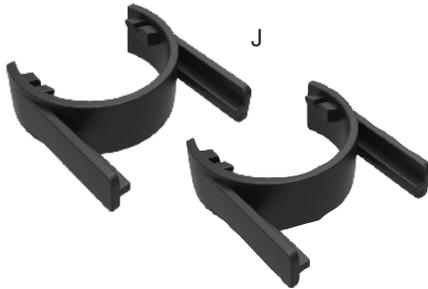
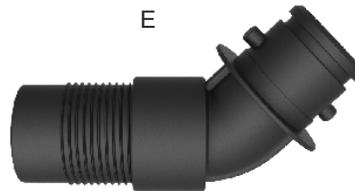
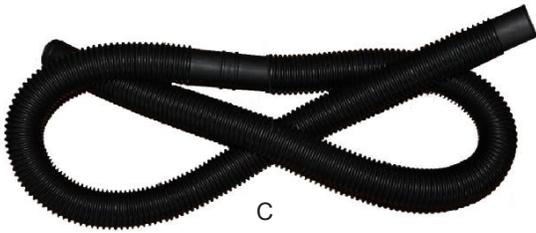
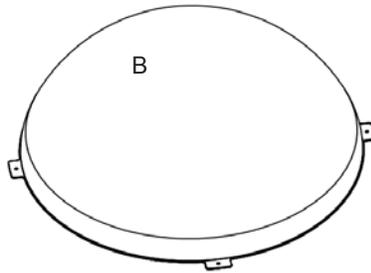
Bubbles continue to appear from the pool water inlet during operation.

- Check connections and tubing for leaks or clogging
- Check the flow rate

Solar heater leaks

- Make sure connections and hose clamps are tight and not defective

Parts List:



| HARDWARE KIT AND PARTS LIST | | |
|-----------------------------|-------------------------|-----------|
| REF No. | DESCRIPTION | No. REQ'D |
| A | Main Body | 1 |
| B | Clear Cover | 1 |
| C | 1-1/2 Flex Hose | 1 |
| D | Adjustable Aluminum Leg | 2 |
| E | Elbow Fitting | 1 |
| F | Fitting | 1 |
| G | Reducer | 2 |
| H | 1-1/2" PVC Couplings | 2 |
| I | O-Ring | 2 |
| J | C Clip | 2 |

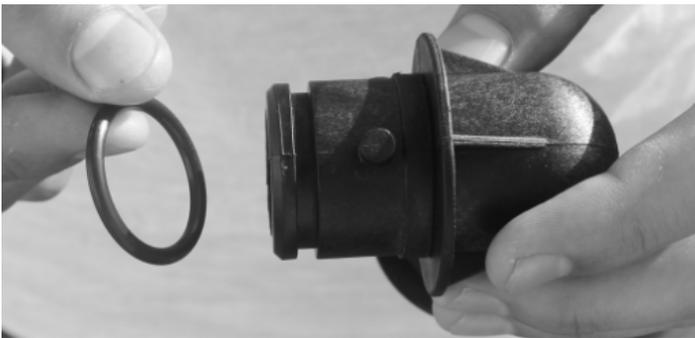
Installation:

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

1. Take out Solar Heater from box, remove poly bag.



2. Put reducers on two fittings, then install the O-Ring.



3. Install the elbow fitting in the center of the heater, fix the other fitting to the inlet, install the C Clip.



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



7. Take the hose end removed from pool return and connect to hose adaptor attached to the header. Tighten hose clamp with screwdriver.



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.



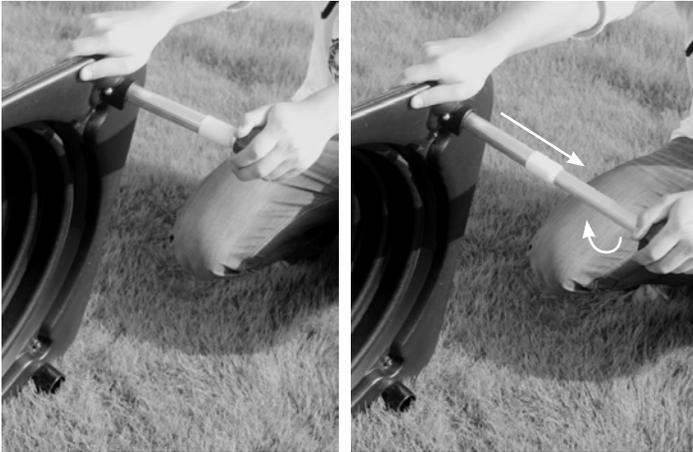
8. Connect provided flex hose to the end labeled 'to pool' and the opposite end to the return fitting. Tighten hose clamp with screwdriver.



6. Disconnect flex hose from return fitting.



9. Unfold the aluminum legs, hold the end, turn counter-clockwise to pull the leg to a proper length, then clockwise.



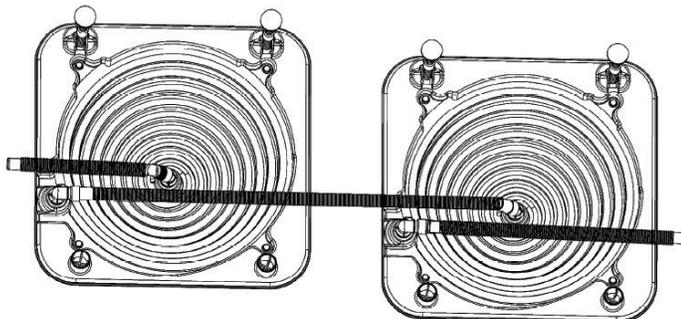
10. Place the solar heater in a proper position.



Multiple Solar Heaters Connection

Multiple solar heaters can be installed in series for larger pools and/or for more rapid heating.

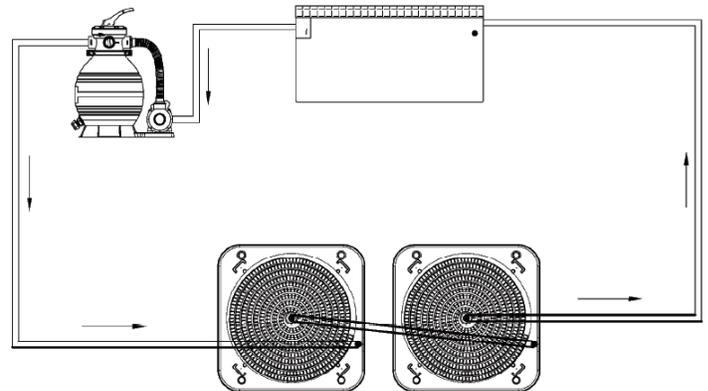
1. Connect one solar heater's outlet to the other solar heater's inlet with hose, tighten hose clamp with screwdriver.
2. Connect the last solar heater's outlet to the pool.



Solar Heater to Pool Connection

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

1. Before the installation please 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.
2. Please make sure the pool filtration system channel is smooth when using solar heater.
3. The picture is for your installation reference.



Winterization

The solar heater **MUST BE DRAINED FOR WINTERIZATION!** FREEZE DAMAGE IS NOT COVERED UNDER WARRANTY! 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