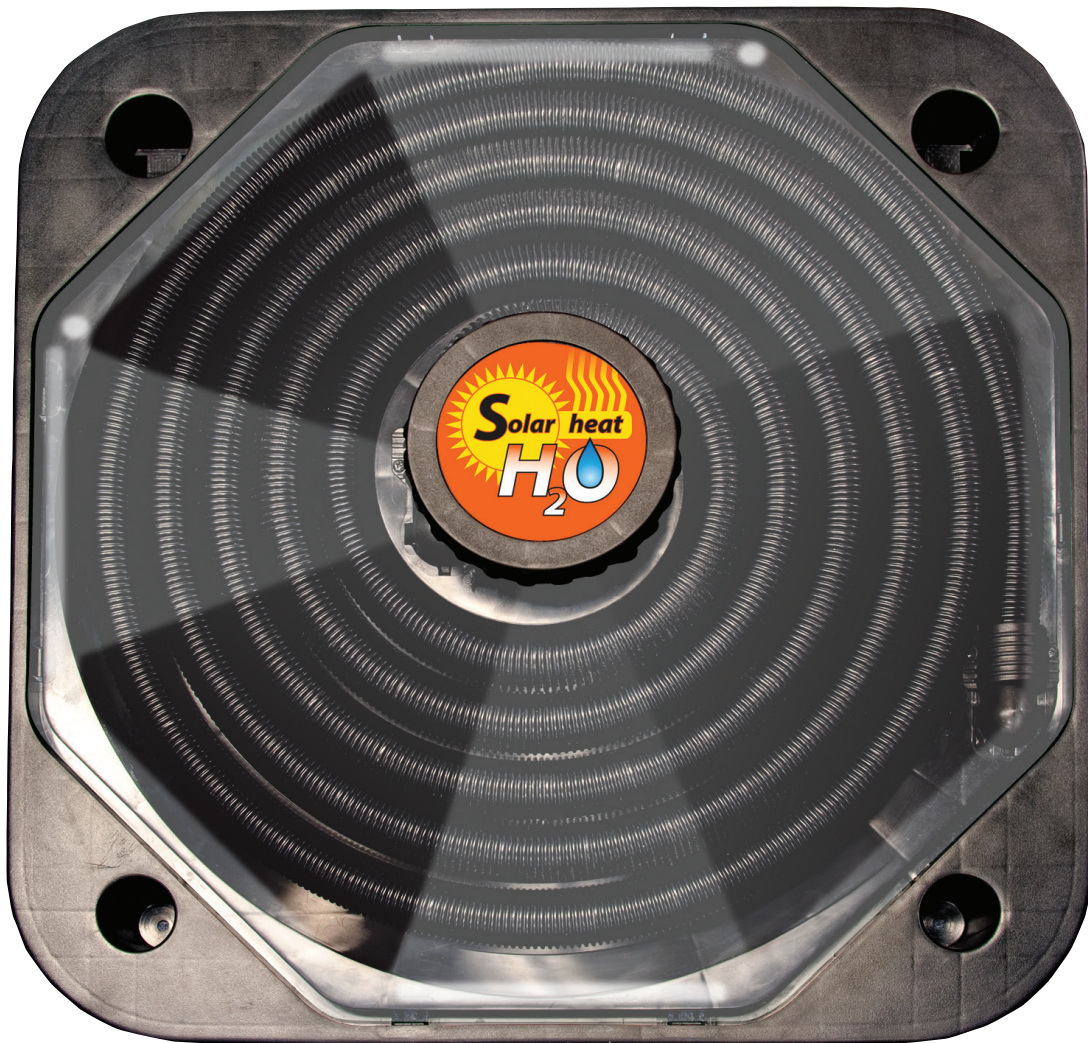




# SOLAR POWERED HEATER

**MODEL AC 70203**



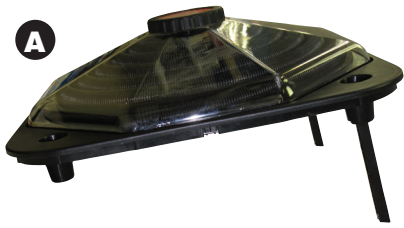



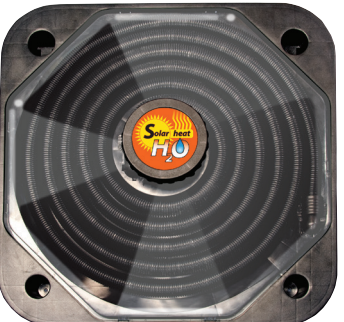


*Please read this Manual carefully  
before installing your Solar H<sub>2</sub>O Heater*

# WARNING

- Carefully read and adhere to all caution and notes located throughout this manual. Failure to comply with these instructions can cause serious injury or damage to the unit.
- Do not allow children to operate this product.
- Always turn off the Filter System when installing or servicing Solar H<sub>2</sub>O Heater
- Install this product away from the pool to prevent the Solar H<sub>2</sub>O Heater from being stepped on or to be used as an entry into the pool.
- Do not use petroleum base lubricants on this system, It will damage plastic. Only use silicone based lubricant.
- The Solar H<sub>2</sub>O Heater is to be hooked up AFTER the Filter and Pump so only filtered water passes through the unit.

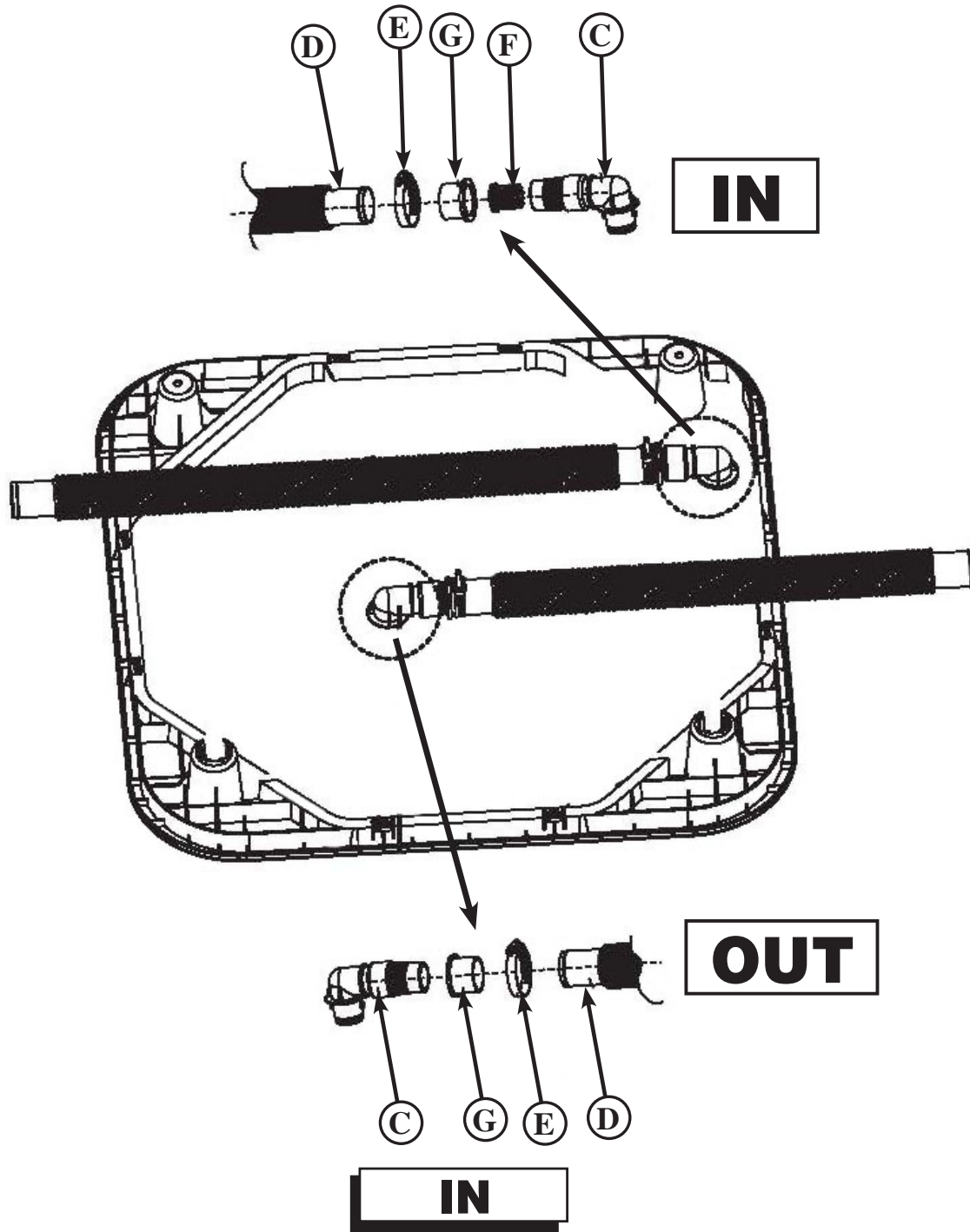
## SOLAR H<sub>2</sub>O HEATER PARTS LIST REFERENCE

| MODEL #  | QTY. | DESCRIPTION                      | PIECE    |
|----------|------|----------------------------------|----------|
| AC 70769 | 1    | Main Base with Stand             | <b>A</b> |
| AC 70785 | 1    | Clear Dome                       | <b>B</b> |
| AC 70793 | 2    | Side Hose Connector with O-Rings | <b>C</b> |
| BS 10022 | 1    | 6' Filter Hose                   | <b>D</b> |
| BS 35815 | 2    | Hose Clamp                       | <b>E</b> |
| AC 00051 | 1    | Inlet Flow Reducer               | <b>F</b> |
| AC 00418 | 2    | Rubber Hose Reducer Bushing      | <b>G</b> |

|  |  |   |   |
|--|--|---|---|
|  <p><b>A</b></p> <p><b>MAIN BASE WITH STAND (1)</b></p> |  <p><b>C</b></p> <p><b>SIDE HOSE CONNECTOR WITH O-RINGS(2)</b></p> |  <p><b>D</b></p> <p><b>6' FILTER HOSE (1)</b></p>              |  <p><b>E</b></p> <p><b>HOSE CLAMPS (2)</b></p> |
|  <p><b>B</b></p> <p><b>CLEAR DOME (1)</b></p>           |  <p><b>F</b></p> <p><b>INLET FLOW REDUCER (1)</b></p>              |  <p><b>G</b></p> <p><b>RUBBER HOSE REDUCER BUSHING (1)</b></p> |   |

**NOTE** Some parts may be pre-installed at the factory.

# HOSE FITTING ASSEMBLY



1. Insert flow reducer (F) into side hose connector (C)
2. If using larger hose install rubber hose bushing (G)
3. Place completed fitting inside IN Port and twist
4. Clamp the hose (D) with the clamp (E) over completed fitting

## OUT

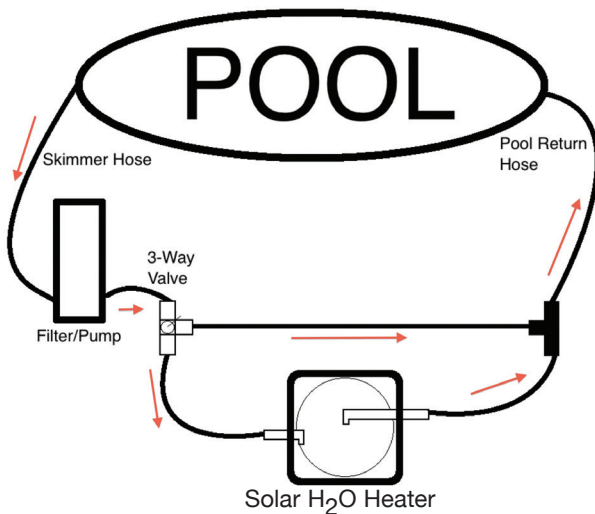
1. If using larger hose install rubber hose bushing (G)
2. Place completed fitting inside OUT Port and twist
3. Clamp the hose (D) with the clamp (E) over completed fitting

# INSTALLATION

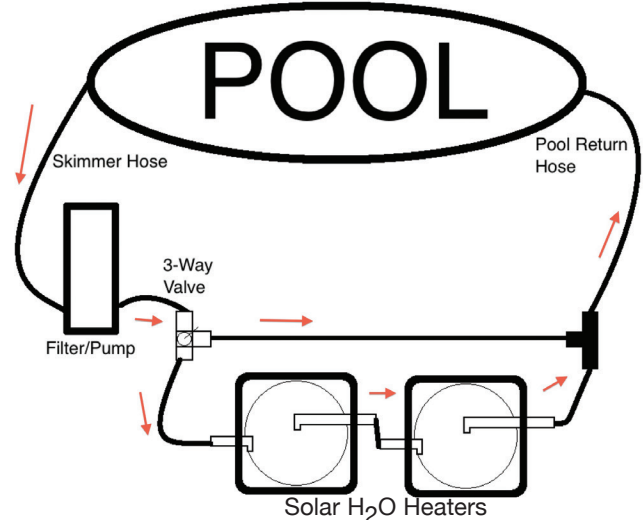
1. Choose a location for your Solar H<sub>2</sub>O Heater that is free of any sharp objects and will receive the most sun during the day.
2. If you have more than one Solar H<sub>2</sub>O Heater you will need to connect them. Put an O-Ring on the smaller end of the elbow. It should fit right in the groove. Then take the elbow and push the smaller end into the bottom of the Solar H<sub>2</sub>O Heater tightly making sure that the nub on the elbow is lined up with the slot on the Solar H<sub>2</sub>O Heater. Once the nub has reached the bottom of the slot give the elbow a slight twist to lock them together. Repeat with the second elbow.
3. Orange Inlet Flow Reducer (F) Must be installed in the Inlet Elbow of all Installed Solar H<sub>2</sub>O Heaters. Failure to do so can damage the unit and **VOID THE WARRANTY.**
4. Turn off the pool pump and plug the skimmer and return so water won't drain out while you connect the heater(s). Winter plugs work well for this. If you are using large filter hoses, you may need to use the large hose adapter (G)
5. Disconnect the hoses from the pool filter where the water returns to the pool, and connect Solar H<sub>2</sub>O Heaters with bypass valve (sold separately AC 22845) per illustrations below.
6. Remove the plugs from the skimmer and return.
7. Turn on the pool pump and check for any leaks. If any of the hoses leak, loosen the clamp, push the hose on tighter, and re-tighten the clamp.

THE LAYOUTS BELOW WILL HELP YOU INSTALL YOUR SOLAR H<sub>2</sub>O HEATER TO YOUR ABOVEGROUND or INGROUND POOL

## SINGLE SOLAR H<sub>2</sub>O DIAGRAM



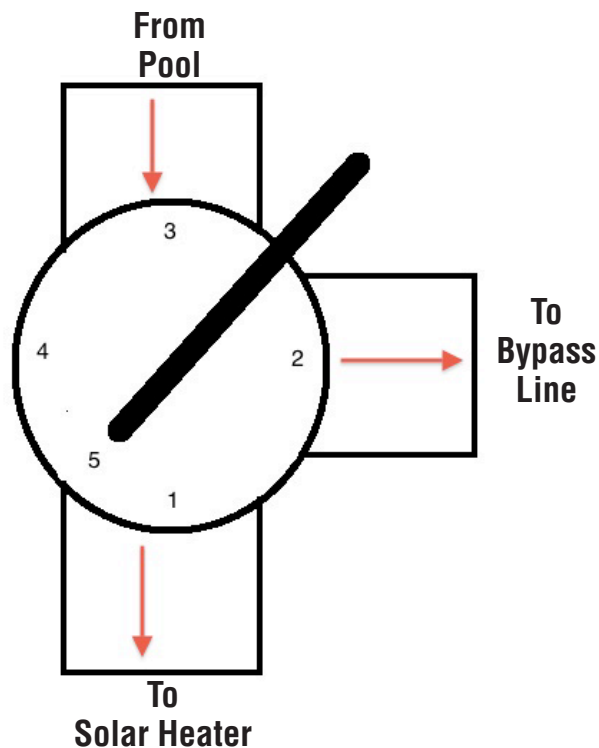
## DOUBLE SOLAR H<sub>2</sub>O DIAGRAM



## BYPASS VALVE DIRECTIONS

### FOR NORMAL OPERATION OF SOLAR H<sub>2</sub>O HEATERS

- Place Bypass valve on port #5 for operation through Solar H<sub>2</sub>O Heater. As a check, this should allow half flow through the Solar H<sub>2</sub>O Heater, and full flow through the bypass. This will reduce damage that can be caused from back pressure, which is not covered under warranty.



### FOR BYPASSING SOLAR H<sub>2</sub>O HEATERS

- Place Bypass Valve on port #1 will stop water from flowing through Solar H<sub>2</sub>O Heaters. This is recommended if you are going to vacuum your pool, If you are adding chemicals directly through your skimmer, or have a problem with your water condition.
- Bypass Valve Ports #2, #3 and #4 are NEVER used. Selecting any of these ports will cause damage to your Solar H<sub>2</sub>O Heaters, Filter and Pool. Damaged caused by neglect is not covered under warranty.

## FREQUENTLY ASKED QUESTIONS

### HOW DOES THE SOLAR HEATER WORK?

Water is pumped through the solar collector using your pool pump. The sun then heats the black heater which transfers heat to the water running through it. The warmed water returns back to your pool.

### HOW WELL DOES THE SOLAR H<sub>2</sub>O HEATER WORK?

If installed and sized properly, a Solar H<sub>2</sub>O Heater can raise your pool temperature as much as 8° F to 10° F. In order to get the most out of the unit, the Solar H<sub>2</sub>O Heater should be exposed to sunlight as long as possible. The Solar H<sub>2</sub>O Heater should be turned off at night and on cool or cloudy days so that you don't cool the pool. It is also highly recommended to use a solar cover or liquid solar blanket to help maintain the heat that you are generating.

### DO I NEED A SPECIAL PUMP?

Typically not, most pool pumps are more than sufficient to do the job as long as they are in good working condition.

### WHERE SHOULD THE SOLAR H<sub>2</sub>O HEATER BE PLACED?

The Solar H<sub>2</sub>O Heater can be placed anywhere where it will get direct sunlight. This includes putting it directly on the ground. Be sure to keep it out of high traffic areas as the heater can be damaged by walking on it.

### WHAT ADDITIONAL PARTS DO I NEED TO PURCHASE?

- You will need at least one hose to go from the heater back to the return. You may also need another hose to go from the filter to the heater if your existing return hose is not long enough.
- It is recommended to install the optional diverter kit (sold separately) so that you can turn the collector off.

## WINTERIZING

**THE SOLAR H<sub>2</sub>O HEATER MUST BE DRAINED AND BLOWN FREE OF ANY WATER TO PREVENT FREEZE DAMAGE. FREEZE DAMAGE IS NOT COVERED UNDER THE WARRANTY!**

Remove the hoses from both ends of the Solar H<sub>2</sub>O Heater. Blow pressurized air, using a reversed shop vac or air compressor, through the heater until no water comes out. It is recommended that the heater be disconnected and stored in a warm dry area.

## SOLAR H<sub>2</sub>O HEATER AC 70203 WARRANTY

### ONE YEAR LIMITED WARRANTY

**One year limited warranty from date of purchase.**

The AC 70203 Solar H<sub>2</sub>O Heater is guaranteed to be free of manufacturers defects in material and workmanship under normal use in accordance with the proper installation and operation manual.

**This Warranty** does not cover the following: Damage due to freezing caused by or related to improper drainage, winterization, or storage. Damage or failures arising from use of the product which does not comply with the instructions provided in this manual.

**This Warranty** is in lieu of all other express warranties. Replacement of defective products as provided under this warranty is your exclusive remedy. The manufacturer will not be liable in contract or tort for any direct, consequential, special, or incidental loss or damage arising out of the use or inability to use this product.

### WARRANTY COVERAGE

**1st Year** — 100% coverage against any manufacturers defects.

**ALL WARRANTY CLAIMS MUST BE HANDLED DIRECTLY WITH THE DEALER WHERE THE PRODUCT WAS PURCHASED.  
A SALES RECEIPT IS REQUIRED TO VERIFY PROOF OF PURCHASE**