



## **INSTRUCTION MANUAL**

### **Sun2Solar® Deluxe Solar Heater**



**Get Started!** 

Item# 902534, 902535

REV:09152022



## Safety Instructions

Read through these instructions carefully before you use the product.

**CAUTION: Failure to comply fully without instructions for use, or safety instructions, may cause damage to the unit or injury to individuals.**

- Please read the instruction manual and the directions shown
- Do not allow children to handle this equipment
- Do not position the equipment too close to the pool
- Do not use any petroleum-based lubricants. Petroleum attacks the product's plastic components
- This equipment is not intended for use by anyone (including children) with restricted physical, sensory or mental ability, or with limited experience and / or limited knowledge, unless they are supervised by someone responsible for their safety, or they receive instruction from them regarding the use of the equipment
- Children must be supervised to ensure they do not play with the equipment

## General Information

### Conditions for the Installation of a Solar Heater

The Sun2Solar® Deluxe Solar Heater you have purchased is intended for use with inground and above-ground pools. And is easy to install and handle. The installation instructions are based on the following conditions:

- 1) You have a pool which is fully built and filled with water
- 2) Your pool has a filter system
- 3) You have the required connector hoses to supply the pool and filter system with water (1 ¼" – 1 ½")

Once the equipment is installed, it is connected between your filter system and your pool using the two hose connectors. (Fig 1) The connector hose forces the cold water from your filter unit into the solar chambers of your solar heater. Here it is heated by the sun's energy and then fed on to the second connector hose towards the pool.

A = Feed from the filter unit to the solar collector  
B = Feed from the solar collector to the swimming pool inlet nozzles

Water heating depends on the following factors: Flow rate and level of exposure to the sun

Solar heating only functions efficiently in sunshine. It can remain connected to the pump in poor weather as this only causes a slight loss of pressure in the pump.

## Tools and Accessories Required

These tools are required for assembly, but are not included in your set:

- Phillips screwdriver
- Flat head screwdriver

## The Ideal Location for Your Sun2Solar® Deluxe Solar Heater

Your solar heater needs to be in a location with as much sunlight as possible

- Never position the solar heater over the surface of your pool
- Keep it an adequate distance away from your pool (keep a safe distance)
- The solar heater is designed to allow maximum possible penetration of sunlight

## Product Care

The solar heater should not be exposed to cold weather. The solar heater should be stored in an area protected from frost before the first frost, or at the end of the pool season.

All parts must be rinsed or cleaned with water only. Detergents may damage the protective cover

## Wintering

Drain all the water from the solar collector by closing off the pipes. Store the equipment away for winter in an area protected from frost. Remove the pool return pipes.

Make sure there is no water left inside the equipment as this can freeze. Water expands as it freezes and so can damage the solar chambers.

## Technical Data

### Sun2Solar® Deluxe Dome Above Ground Pool Heater:

- Dimensions: L x W x H – 55" x 55" x 27"
- Maximum Pressure 1 Bar at 68° F
- Water flow rate max 7,500 l/h
- Water content collector 10 l

### Sun2Solar® Deluxe Dome Inground Ground Pool Heater:

- Dimensions: L x W x H – 78" x 78" x 42"
- Maximum pressure 2 bar at 65° F
- Water flow rate max 10,000 l/h
- Water content collector 10 l



## Assembly Instructions

Before you begin installation of the solar heater, turn off the filter pump and close off all water connections.

### **Sun2Solar® Deluxe Dome Above Ground Pool Heater**

- Attach the feet to the underside of the solar collector (**Fig. 2,3**)
- Fit the 2 connection adapters to the underside of the solar heater (**Fig 4,5,6**)
- Connect the hoses between the filter unit, the solar collector and the pool
- Assembly with a 1 ¼" hose connector. This is pushed directly over the connection adapter and fastened with the hose clamp (**Fig 7**)
- Assembly with a 1 ½" hose connector (**Fig 8,9,10**) First push the rubber reducer fitting 1 ¼ - 1 ½" over the connection adapter. Then push the 1 ½" hose over the reduction fitting and fasten with a hose clamp
- Intex® special adapter: This is needed on large Intex® pools which have swimming pool hoses with gate valves (**Fig 11, 12**)

### **Sun2Solar® Deluxe Dome In-Ground Pool Heater**

#### **Connection between solar collector and pool**

For pools with a 1 ¼" or 1 ½" swimming pool hose follow the instructions below:

- Attach the hose to the return connector on the underside of the solar heater
- Use a hose clip to connect the hose to the return connector (**Fig 13**)
  - A) Pool Return Hose
  - B) Reduction Fitting (if required)
  - C) Hose Clip
  - D) Return Connector

For large Intex® pools (which have swimming pool hoses with gate valves) follow the instructions below (**Fig 14**)

- Connect the Intex® special adapter and the O Ring with the return connector. Make sure the O Ring is in the Intex® special adapter
- Screw on the pool hose with the Intex® special adapter. Make sure that the seal between the hose and the Intex® special adapter is correctly inserted.
  - A) Intex® Special Hose
  - B) Intex® Special Adapter
  - C) O Ring
  - D) Return Connector
  - E) Flat Seal

## **Correct Positioning of the Solar Heater**

Attach both legs to the underside of the device and adjust position to maximize exposure to the sun. Make sure the surface is stable and level

The device should be assembled as show (**Fig 15**)

- A) Swimming pool hose to the pool
- B) Swimming pool hose from the filter / pump
- C) Return connector
- D) Connector flow

Make sure that all hose connections are watertight and the hose is not kinked or have any sharp corners. If the hoses are not watertight, check whether the O Rings are correctly positioned and all connections are screwed together firmly. Do not over-tighten the hose clamps.

## **Connecting Several Solar Heaters**

If you would like to increase the heating power, you can connect several collectors together. For this you will need an additional swimming pool hose 1 ¼" – 1 ½".

We recommend connecting a maximum of 4 collectors, depending on the power of your filter unit.

**We recommend use of a Sun2Solar® bypass kit (**Fig 16**) (**Item# 902518A**)**

**Not only does this help optimal control of heat output, it also helps targeted control of the water flow rate, depending on the power of the filter unit.**

## **Initial Use**

Once the solar heater is assembled and the hoses are connected to the filter pump and the pool. Open the water supply and ensure that water is flowing through the hose. Then turn on the filter system. Air bubbles will rise from the inlet nozzle in the pool. This happens as the air is expelled from the solar heater. If this continues for more than 2-3 minutes, check the tightness of the connections in your system.

Please Note: Cover your pool overnight to avoid loss of heat.

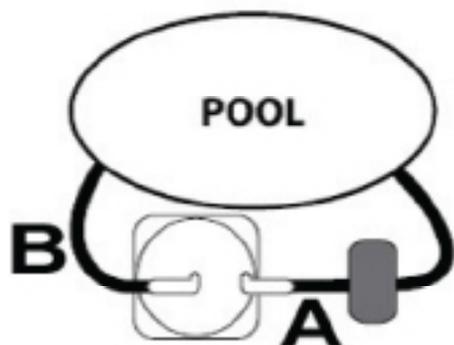


## Trouble Shooting

Problem	Cause / Solution
<b>The pool does not warm up</b>	<ul style="list-style-type: none"><li>• Make sure that water is flowing through the hoses</li><li>• Has it been sunny enough?</li><li>• Exploit the maximum amount of sunlight and increase the running time of the filter pump</li><li>• Cover your pool overnight to avoid loss of heat</li><li>• It is possible that you may need several solar collectors</li></ul>
<b>No bubbles appear after the equipment has been attached to the pump</b>	<ul style="list-style-type: none"><li>• Check the filter system and ensure that water from the pool is flowing through the filter pump, then through the solar collector and finally through the connector house back to the pool</li></ul>
<b>Air bubbles come out of the pool return after the pump has been turned on</b>	<ul style="list-style-type: none"><li>• Check the connector hoses for any damage</li><li>• Check that the hose clamps have been properly tightened</li></ul>
<b>Water escaping</b>	<ul style="list-style-type: none"><li>• Check the seals in the systems of pipes</li><li>• Check whether you have tightened the hose clamps tightly enough</li><li>• Check the connector hoses for any cracks</li></ul>

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There is no affiliation or relationship between Sun2Solar® and Intex® Corp.*

**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**



**Figure 5**



**Figure 6**



**Figure 7**



**Figure 8**



**Figure 9**



**Figure 10**



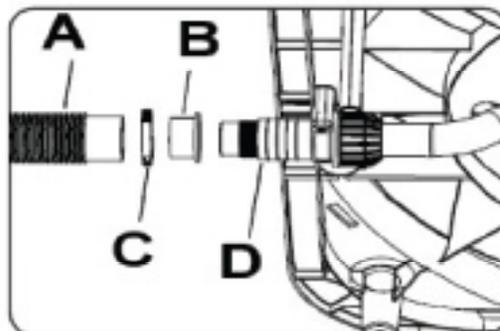
**Figure 11**



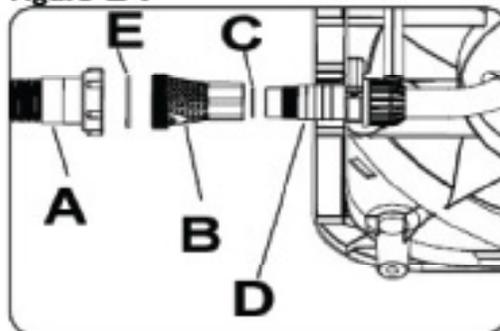
**Figure 12**



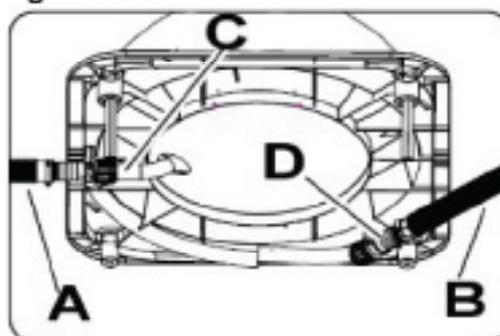
**Figure 13**



**Figure 14**



**Figure 15**



**Figure 16**

