

SH30IM (KOK)(English) (Date: 151110)
 size: W420 x L290mm
 Material: 200gsm art paper (粉紙 / 銅板紙)
 Finishing: glossy lamination (過光膠)
 Printing: 1C (印1色)

Duomo™ GB | Solar Heater Owner's Manual



IMPORTANT

Prior to installing this product, read and follow all warning notices and instructions accompanying this product. Failure to follow safety warnings and instructions can result in injury, death, or property damage. See the instruction manual.

SAFETY WARNINGS & INSTRUCTIONS

Read and follow all instructions in this manual before using the equipment. Failure to do so may result in severe or fatal injury.

WARNING:

- This heater is not intended for use by children or people with reduced physical/sensory/mental capabilities, or a lack of experience and knowledge. This applies unless they have been authorized to use the heater by someone responsible for their safety.
- Solar heater (the tube in particular) and the water inside can be very hot after being exposed to the sun for some time, especially if the water has been stagnant.
- Improper assembly of the equipment may cause severe injury.
- NEVER allow children to operate the solar heater.
- Forbid children from playing with the dome bag.
- Hazardous pressure. In order to avoid explosion and, as a result, possible severe or fatal injuries, the solar heater operating pressure must not exceed 3bar (43psi).
- Turn off the pump prior to installing and disconnecting the solar heater from your filtration system.

CAUTION:

- The solar heater must be positioned in such way to prevent it from being used as means of access to the pool by young children.
- Never stand, sit, or put any object on the heater and dome cover.
- Remove any pool return inlet water accessories such as water fountain, water fall, spa, etc., as they may reduce the flow rate and create pressure inside the solar heater, damaging the unit as a result.
- DO NOT put any weight on the solar heater.
- DO NOT jump, step, or walk on the solar heater.
- Never place any pool chemicals in the proximity of the solar heater as chemical fumes and/or spills can cause severe corrosive damages to its panel and accessories.
- DO NOT apply any petroleum-based lubricant, as it could damage the product.
- If a chlorinator is used, make sure it is placed after in the system. Otherwise, the chlorine may damage the unit.

The warnings and cautions above are not intended to incorporate all possible instances for risks and / or severe injuries. Pool owners should always exercise the utmost caution and common sense when they utilize and operate their pools and relevant equipment.

General Information

Duomo™ features an innovative dome design that provides better heat transfer than traditional solar systems, and that eliminates the need to set aside yard space for conventional solar panels. It is a compact solution that is set-up easily in a few steps.

With the hose connectors provided, Duomo™ is compatible with filtration systems that require a soft hose connection of Ø32mm (1¼in).

How It Works

Duomo™ should be installed between the pump/filter and the return inlet of the pool. Cold water flows from the pool's water outlet to the pump/filter, and through to the solar heater. Water is heated by the sun while flowing through the heater coils and is then returned to the pool via the return inlet.

Points to Note:

1) Installation

Prior to installation, make sure you have filled your above-ground pool with water and it is properly set up and connected with the required filtration hoses and the filter / pump. The solar heater will become very heavy after it is filled with water. Select a proper spot to install Duomo™ – a completely level and firm ground that is below the level of pool water, with maximum exposure to sunshine. Position the heater after the pump/filter and before the chlorinator in the system.

WARNING

- Turn off the pump prior to installing and disconnecting Duomo™ from your filtration system.

CAUTION:

- Never place any pool chemicals in the proximity of Duomo™ as chemical fumes and/or spills can cause severe corrosive damages to its panel and accessories.
- Duomo™ must be positioned so as to prevent it from being used as means of access to the pool by young children.
- Never stand, sit, or put any object on the heater and dome cover.
- Make sure the site for installation is free of any sharp objects as they could cause damages to the dome bag.

2) Operating Pressure

Make sure that the solar heater operating pressure does not exceed 3bar (43psi). It is recommended to have a pressure gage installed before the solar heater and after the pump/filter in the set-up to monitor the water pressure inside Duomo™.

3) Linking additional units of Duomo™

Do not install additional units of Duomo™ when the filtration/pump is in operation. Always turn off the pump prior to installing and disconnecting the heater.

Duomo™ Solar Heater Installation

Prior to installing Duomo™, make sure all parts are present in the package.

CAUTION: Make sure the site for installation is free of any sharp objects as they could damage the dome bag.

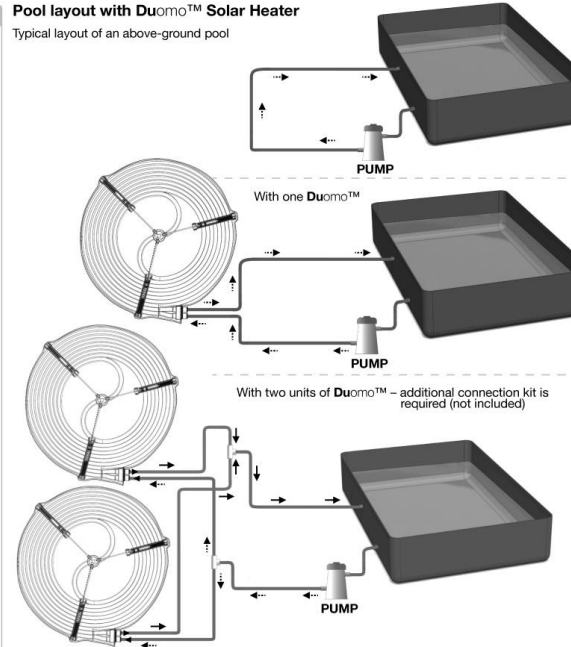
• Primary Component (for the connection of one Duomo™)

1 x Duomo™ preinstalled inside the dome bag	3 x support chamber	3 x L-shaped metal rod
1 x centerpiece	2 x hose clamp (to secure pool hose onto the heater hose connector- inlet and outlet nozzle)	1 x Ø32mm (1¼") soft hose (for connecting filter/pump to Duomo™)

A screwdriver is the only tool required (to secure the hose clamp to the hose connectors).

Pool layout with Duomo™ Solar Heater

Typical layout of an above-ground pool



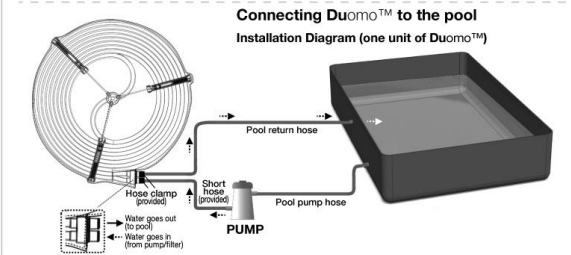
Open the zipper and partially uncover the heater. Slide and insert the straight end of the L-shaped metal rod into the support chambers as shown below.



Insert the hook end of the L-shaped rod into the cavity of the centerpiece. With all 3 rods fixed in place, Duomo™ should have a conic shape. Close the cover and zipper.



Rotate the heater in order for the hose connector to face pool. Duomo™ is now ready to be connected to the pool.



CAUTION:

- Before you begin to connect Duomo™ to your pool, make sure the pool water outlet and return inlets have already been closed and connected with hoses. Refer to your pool manual or consult your pool dealer for proper instructions.
- Turn off the pump prior to installation.

NOTE:

In order to maximize water flow from the heater to the pool, it is recommended to maintain only pump/filter and Duomo™ in the set-up. Remove any additional accessories such as a chlorinator, which could reduce the flow. Also, as chlorinated water may damage the heater, make sure the chlorinator is positioned after the heater if you choose to include it in the set-up.

- Detach the pool return hose from your pump/filter.
- Connect the short hose provided to the filter/pump and Duomo™ and secure them with the hose clamps.
- Connect the pool return hose to Duomo™.
- Make sure all hose connections are secured and that hoses are not kinked or bent at a sharp angle before starting the pool pump.

Initial Operation

If your filter/pump has a pressure release valve, refer to your pump/filter manual on how to open it. Unblock the pool water outlet and inlet to let water flow through the hoses. Close the release valve once water begins to flow out of it.

NOTICE: If you are using Duomo™ after a long period of inactivity such as winter storage, please rinse the heater's interior with water. Make sure the pump is turned off. Block the pool return according to the pool manual and disconnect the pool return hose from Duomo™. Water should begin to flow. Let it continue to flow for a few minutes and follow instructions from your pool manual to block the pool suction outlet and stop the flow. Reconnect the pool return hose to the heater and secure the connection with a hose clamp. Afterwards, unblock both pool return and suction outlet.

Turn on the pump and water should start flowing into the pool via the heater.

WARNING:

- Duomo™ (especially the tube) and water inside can become very hot after being exposed to sunshine for an extended period of time, especially if the water inside has been stagnant.

Note: It is normal for the temperature of the tube surface to cool down during operation. It is the result of heat being transferred from the tube to the water inside.

TIPS: You are recommended to place a solar cover on the pool at night to minimize heat loss.

On hot days, cover the dome with a cover cloth when your pool does not require additional heating.

Winterization and Maintenance

To minimize the buildup of condensation inside the dome bag, open the dome bag when the heater is no longer in use, and close it at night. If necessary, use a dry cloth to wipe the dome bag clean. Do not apply any cleaning solution.

WARNING:

- Turn off the pump prior to disconnecting the heater/hoses from your pump/filter/filtration system.

In order to winterize the unit, block the pool water inlet and outlet and then disconnect the solar heater from the hoses.

Drain all the water out of the solar heater at the end of the season. Water left inside may freeze, causing the tubes to break as the ice expands. Disconnect the hoses and let the remaining water discharge, then lift up Duomo™ and spin it in order to drain the water inside the tube.

Shut off the two holes of hose connector to prevent insects from entering.

Keep the solar heater stored in a sheltered area and away from any chemicals that could potentially damage the cover bag.

Do not place any object on the solar heater and its cover bag.

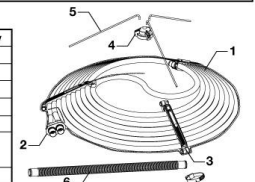
Keep the solar heater stored out of reach of children.

Troubleshooting

Problem	Possibilities / Solution
Water is not heating	<ul style="list-style-type: none"> • Make sure the filtration system works to circulate the water. • Sunshine is not strong enough. • Additional solar heaters are required. • Cover the pool with a solar cover on at night to minimize heat loss. • Cover the pool with a solar cover while using the solar heater to increase the heating efficiency.
Duomo™ is leaking water	<ul style="list-style-type: none"> • Check to see if there is any leakage from the connector seal and whether the unit is damaged. Tighten the hose / hose connector for a more secure connection. Always use a hose clamp. Replace with a new Duomo™ if it is damaged.
Air is trapped inside the tube (presence of bubbles)	<ul style="list-style-type: none"> • Make sure the water level in the pool is above the water outlet. • Check to see if the flow rate has weakened because the pump / filter is clogged with debris. Clean the filter or pre-filter in the pump regularly. • Check to see if the hose is clogged. Try to purge out the clog. • Check to see if the hose is damaged. Replace with a new one if necessary. • Check to see if the hose connection is tight enough. Tighten with the hose clamp further if necessary.

Exploded-view Drawing

No.	Part Name	Qty
1	Solar heater (preinstalled in clear cover bag)	1
2	Heater nozzle (water in & out)	1
3	Support chamber	3
4	Centerpiece	1
5	L-shaped metal rod	3
6	1 x Ø32mm (1¼") soft hose (for connecting filter/pump to solar heater)	1
7	Hose Clamp	2



© 2015 Kokido Development Ltd.

All rights reserved. No part of this document may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of Kokido Development Ltd.

We reserve the right to change all or part of the features of the articles or contents of this document without prior notice.

SH30
Made in China

