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Sun2Solar 902535

Sun2Solar XD2 Deluxe Solar Powered Pool Heater Instruction Manual

Introduction Safety Information Package Contents Setup & Installation Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

Thank you for choosing the Sun2Solar XD2 Deluxe Solar Powered Heater. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new pool heater. This system is designed to harness solar energy to warm inground swimming pools up to 15,000 gallons, extending your swimming season with an eco-friendly and cost-effective heating solution.



Image 1.1: The Sun2Solar XD2 Deluxe Solar Powered Pool Heater unit.

2. Safety Information

Please read and understand all safety warnings and instructions before installing or operating this product. Failure to follow these instructions could result in property damage, serious injury, or death.

- Always disconnect power to the pool pump before performing any installation or maintenance.
- Do not operate the heater if any part is damaged. Contact customer support for replacement parts.
- Keep children and pets away from the heater unit during operation.
- Ensure all connections are secure and leak-free to prevent water damage or electrical hazards (if applicable to pump system).
- This heater is designed for inground pools. Do not use for purposes other than its intended use.
- Consult a qualified pool professional for complex installations or if you are unsure about any step.
- Protect the unit from freezing temperatures during off-season storage.

3. Package Contents

Verify that all components are present in your package:

- Sun2Solar XD2 Deluxe Solar Powered Heater Unit(s)

- Bypass Kit (includes valves and T-fittings)
- Hose Clamps
- Hoses
- Hose Reducers
- Teflon Tape
- Adapters for INTEX pools
- Protective Cover



Image 3.1: Included bypass kit components and hose clamps.

4. Setup and Installation

The Sun2Solar XD2 Deluxe heater is designed for easy setup without the need for electric or gas connections. It requires a pool pump of 1 HP or higher for optimal water flow.

4.1. Placement

Position the solar heater in an area that receives maximum direct sunlight throughout the day. For best results, place the unit(s) close to the pool's filtration system.

4.2. Connecting the Heater

1. Ensure your pool pump is turned off and disconnected from power.
2. Identify the return line from your pool filter to the pool. The solar heater will be installed in this line.
3. Install the bypass kit into the return line. The bypass kit allows you to control the water flow through the heater, enabling you to bypass it when heating is not desired or for maintenance.
4. Connect the inlet of the solar heater to the bypass kit's outlet that directs water to the heater.
5. Connect the outlet of the solar heater back to the bypass kit's inlet that directs water back to the pool.
6. Use the provided hoses, hose reducers, and Teflon tape to ensure all connections are tight and leak-free. Secure all hose connections with the included clamps.

7. If connecting multiple heaters, install them in series for increased heating efficiency. Each heater should be connected sequentially in the return line.

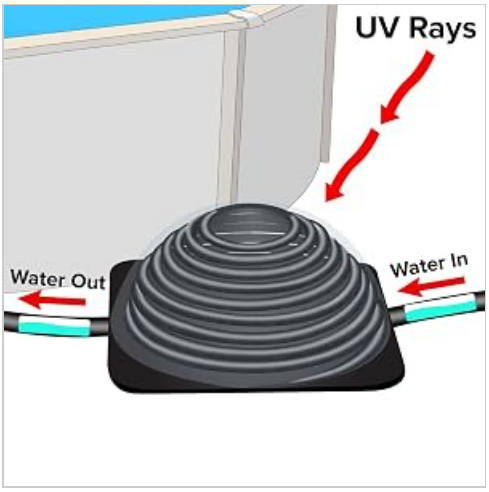


Image 4.1: Diagram illustrating the water flow path from the swimming pool, through the pump, filter, solar heater, and back to the pool.



Image 4.2: Close-up view of the solar heater showing water inlet and outlet connections, and indicating UV rays as the heat source.

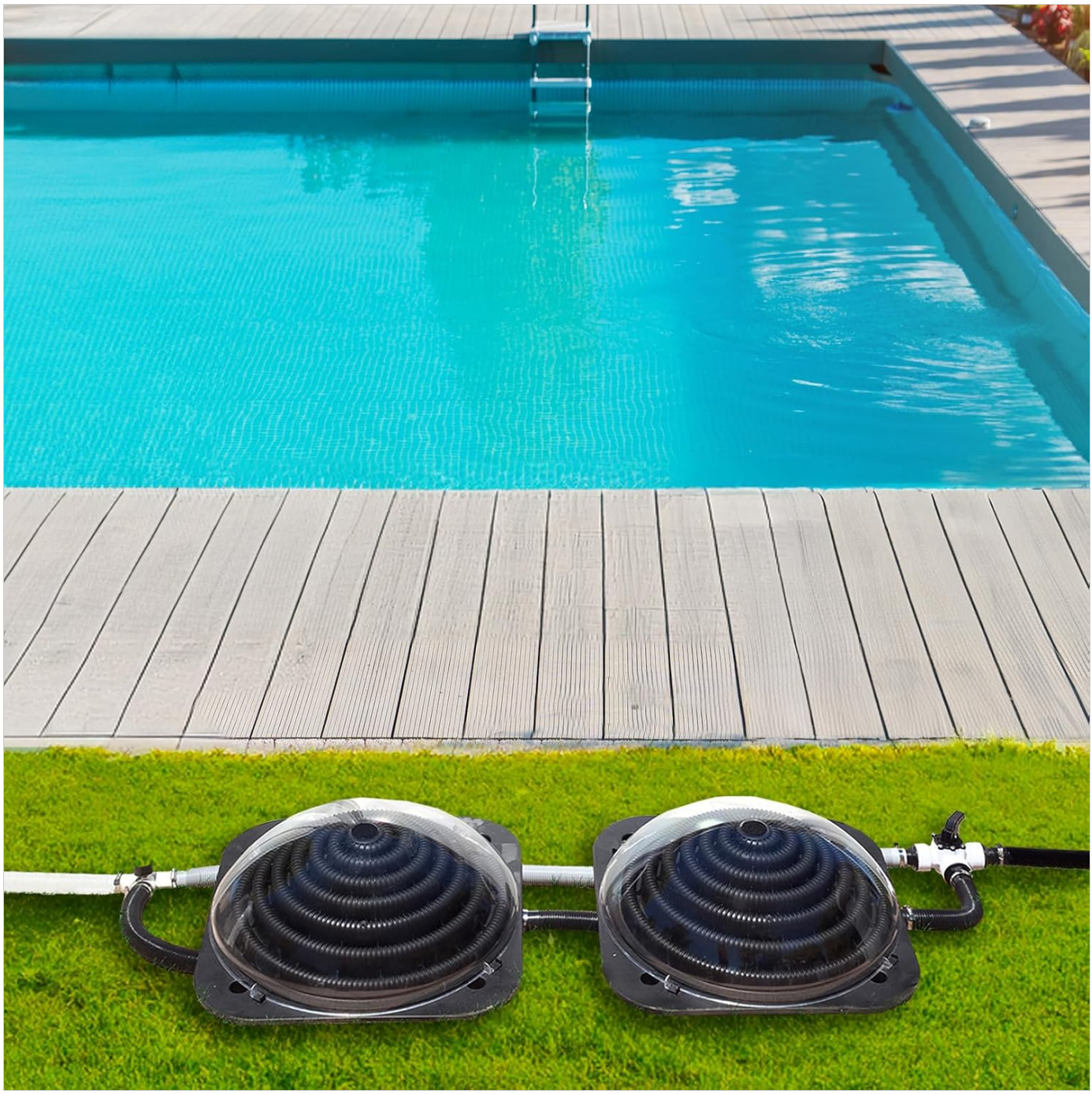


Image 4.3: Example installation of two Sun2Solar XD2 Deluxe heaters connected in series beside an inground pool.

5. Operation

Once installed, the Sun2Solar XD2 Deluxe heater operates by circulating pool water through its black coils, which absorb heat from the sun's UV rays. The warmed water is then returned to your pool.

- **Initial Start-up:** After installation, turn on your pool pump. Slowly open the valves on the bypass kit to direct water flow through the solar heater. Check for any leaks.
- **Optimizing Heat:** For maximum heating, ensure the heater receives direct sunlight for as many hours as possible. The bypass kit allows you to adjust the flow rate through the heater. A slower flow rate through the heater can result in warmer water, but may reduce overall pool circulation. Experiment to find the optimal balance for your pool.
- **Bypassing the Heater:** If you do not wish to heat the pool (e.g., on very hot days or during pump backwash), use the bypass kit to divert water directly back to the pool, bypassing the heater.
- **Monitoring Temperature:** Use a pool thermometer to monitor your pool's temperature and observe the effectiveness of the solar heater.

6. Maintenance

Proper maintenance ensures the longevity and efficiency of your Sun2Solar XD2 Deluxe heater.

- **Regular Cleaning:** Periodically inspect the heater's surface for debris (leaves, dirt) and clean as needed to ensure maximum sun exposure. Use a soft cloth and mild soap if necessary.
- **Leak Checks:** Regularly inspect all hose connections for leaks. Tighten clamps or re-tape connections with Teflon tape if leaks are detected.
- **Protective Cover:** When the heater is not in operation, or during periods of extreme weather, use the provided protective cover to shield the unit from environmental elements.
- **Winterization:** Before freezing temperatures arrive, completely drain the solar heater and disconnect it from your pool system. Store the unit in a dry, protected area to prevent freeze damage.

7. Troubleshooting

If you encounter issues with your solar pool heater, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pool not heating sufficiently	Insufficient direct sunlight	Relocate heater to a sunnier spot or clear any obstructions.
	Incorrect water flow through heater	Adjust bypass kit valves to ensure proper flow. Ensure pump is 1 HP or higher.
	Pool volume too large for number of heaters	Consider adding additional solar heater units in series. Refer to the heating chart in Section 8.
Water leaks at connections	Loose clamps or improper sealing	Tighten hose clamps. Reapply Teflon tape to threaded connections.
Low water flow	Clogged filter or pump basket	Clean pool filter and pump basket.

8. Specifications

- **Model Number:** 902535
- **Product Dimensions:** 30.7 x 30.7 x 15.35 inches (L x W x H)
- **Item Weight:** 25 pounds
- **Maximum Pool Volume:** Up to 15,000 gallons
- **Recommended Pump Size:** 1 HP or higher

8.1. Heating Performance Chart

The following table provides an estimate of the days required to increase pool temperature by 5°F, based on pool volume and the number of heaters used. Results are based on 10 hours of direct sunshine per day and may vary with weather conditions.

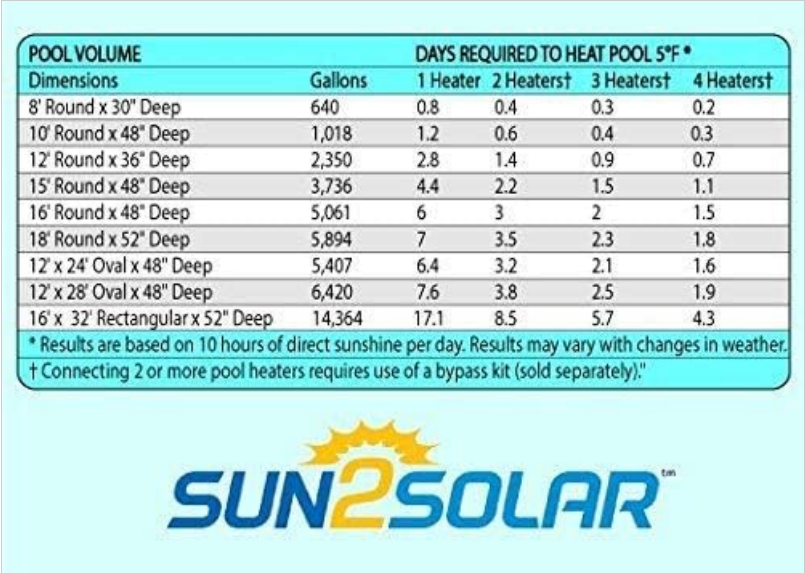


Image 8.1: Heating performance chart for various pool sizes and number of heaters.

Pool Volume	Dimensions	1 Heater (Days to heat 5°F)	2 Heaters (Days to heat 5°F)	3 Heaters (Days to heat 5°F)	4 Heaters (Days to heat 5°F)
640 Gallons	8' Round x 30" Deep	0.8	0.4	0.3	0.2
1,018 Gallons	10' Round x 48" Deep	1.2	0.6	0.4	0.3
2,350 Gallons	12' Round x 36" Deep	2.8	1.4	0.9	0.7
3,736 Gallons	15' Round x 48" Deep	4.4	2.2	1.5	1.1
5,061 Gallons	18' Round x 48" Deep	6	3	2	1.5
5,894 Gallons	18' Round x 52" Deep	7	3.5	2.3	1.8
5,407 Gallons	12' x 24' Oval x 48" Deep	6.4	3.2	2.1	1.6
6,420 Gallons	12' x 28' Oval x 48" Deep	7.6	3.8	2.5	1.9
14,364 Gallons	16' x 32' Rectangular x 52" Deep	17.1	8.5	5.7	4.3

**Results are based on 10 hours of direct sunshine per day. Results may vary with changes in weather. Connecting 2 or more pool heaters requires use of a bypass kit (included).*

9. Warranty & Support

For warranty information, technical support, or to inquire about replacement parts, please contact Sun2Solar customer service. You can find more information and contact details by visiting the official Sun2Solar store:

Visit the Sun2Solar Store

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