POOLEX PC-SLP090

POOLEX Silverline 90 Pool Heat Pump User Manual

Model: PC-SLP090

1. INTRODUCTION

This user manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of your POOLEX Silverline 90 Pool Heat Pump, model PC-SLP090. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of the unit.

2. SAFETY INFORMATION

Always adhere to local electrical codes and regulations. Installation must be performed by a qualified professional. Failure to follow these instructions may result in property damage, serious injury, or death.

- Ensure the power supply is disconnected before any maintenance or service.
- Do not operate the heat pump if any part is damaged or missing.
- Keep children and pets away from the unit during operation.
- Proper grounding is essential to prevent electrical shock.
- Do not block the air intake or exhaust vents.

3. PRODUCT OVERVIEW AND COMPONENTS

The POOLEX Silverline 90 is a high-performance heat pump designed for heating swimming pools. It features a Mitsubishi compressor and a double-spiral titanium exchanger for efficient heat transfer.

Figure 3.1: Front view of the POOLEX Silverline 90 heat pump, showing the main unit with the POOLEX Silverline logo and various indicators. This image illustrates the compact design and primary external features of the heat pump.

Figure 3.2: The POOLEX Silverline 90 heat pump, highlighting its compatibility with pools up to 45m³ and the integrated Touch & Go control system. This image emphasizes the user-friendly interface and capacity suitability.

- 6 Capacidades, hasta 85 m3
- Potencia de 5.5 a 18 kW
- Intercambiador de Titanio
- Anticorrosión

Figure 3.3: Key features of the POOLEX Silverline 90 heat pump, including 6 capacities up to 85m³, titanium exchanger, power range of 5.5 to 18 kW, and anti-corrosion properties. This graphic summarizes the technical advantages of the unit.

Figure 3.4: Accessories included with the POOLEX Silverline 90 heat pump: maintenance cover, anti-vibration support kit, 10-meter extension cable, condensate drainage hose, and 50mm PVC connectors. This image details the complete package for installation and maintenance.

Figure 3.5: The POOLEX Silverline heat pump's energy efficiency, demonstrating up to 80% savings compared to traditional heating methods. This image highlights the economic benefit of using the heat pump.

Figure 3.6: The POOLEX Silverline 90 heat pump uses R410 ecological refrigerant, emphasizing its environmental friendliness. This image points out the type of refrigerant used and its eco-conscious design.

Figure 3.7: The POOLEX Silverline heat pump offers 6 capacities for pools up to 85m³, with a power range of 5.5 to 18 kW. This image illustrates the versatility and scalability of the heat pump series.

4. SETUP AND INSTALLATION

4.1 Site Selection

Choose a well-ventilated outdoor location, away from direct sunlight and heat sources. Ensure sufficient clearance around the unit for proper airflow (minimum 50cm from walls or other obstructions). The ground must be level and capable of supporting the unit's weight (49 kg).

4.2 Plumbing Connection

1. Connect the heat pump to your pool's filtration system after the filter and before any chemical injection points.
2. Use the provided PVC connectors (Ø 50mm) for water inlet and outlet.
3. Ensure all connections are watertight to prevent leaks.
4. Install a bypass valve system to allow for maintenance without draining the pool.

4.3 Electrical Connection

Electrical installation must be performed by a certified electrician in accordance with local regulations.

- The unit requires an electrical power supply (Type: Electric).
- Ensure the circuit is protected by a suitable circuit breaker and residual current device (RCD).
- Properly ground the unit.
- Connect the wired control extension (10m) if using the remote panel.

4.4 Initial Start-up

1. Ensure the pool pump is running and water is flowing through the heat pump.
2. Turn on the power supply to the heat pump.
3. Set the desired water temperature using the LCD control panel.
4. Allow several hours or days for the pool water to reach the set temperature, depending on initial water temperature and ambient conditions.

5. OPERATING INSTRUCTIONS

5.1 Control Panel (Touch & Go)

The heat pump is equipped with an LCD control panel featuring Touch & Go technology for easy operation. Refer to the specific instructions provided with the control panel for detailed navigation.

5.2 Temperature Setting

Use the up/down arrows on the control panel to adjust the desired pool water temperature. The unit will automatically operate to maintain this temperature.

5.3 Operating Modes

The heat pump primarily operates in heating mode. It will automatically turn on when the pool water temperature drops below the set point and turn off once the set point is reached.

5.4 Wi-Fi Module (Optional)

An optional Wi-Fi module is available for remote control and monitoring. Consult the Wi-Fi module's separate manual for installation and operation instructions.

6. MAINTENANCE

6.1 Regular Cleaning

- Keep the area around the heat pump clear of debris, leaves, and other obstructions.
- Clean the evaporator coil regularly with a soft brush or low-pressure water to ensure efficient airflow.
- Wipe down the exterior casing with a damp cloth.

6.2 Winterization

Before winter or prolonged periods of non-use, it is essential to properly winterize the heat pump:

1. Disconnect the power supply.

2. Drain all water from the heat pump's plumbing system to prevent freezing damage.

3. Cover the unit with the provided maintenance cover or a suitable protective cover.

6.3 Condensate Drainage

Ensure the condensate drainage hose is clear and properly routed to allow water to drain away from the unit's base.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Heat pump not starting	No power; circuit breaker tripped; low water flow.	Check power supply; reset circuit breaker; ensure pool pump is running and filter is clean.
Insufficient heating	Ambient temperature too low; dirty evaporator coil; incorrect temperature setting; undersized unit for pool volume.	Heat pump efficiency decreases in cold weather; clean coil; verify temperature setting; ensure unit matches pool size (40-50m³ for this model).
Unusual noise	Loose components; fan obstruction; compressor issue.	Check for loose parts; clear any obstructions from fan; if compressor noise persists, contact qualified technician.
Water leaking	Loose plumbing connections; condensate drainage issue.	Tighten connections; ensure condensate hose is clear and properly routed. Note: Condensate drainage is normal operation.

For issues not listed or if problems persist, contact a qualified service technician or POOLEX customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	PC-SLP090
Brand	POOLEX (Manufacturer: Poolstar)
Power Output	9 kW
Recommended Pool Volume	40 to 50 m³ (up to 110 m³ compatible)
Compressor Type	High-performance Mitsubishi compressor
Exchanger Type	Double-spiral titanium exchanger (Twisted Tech)
COP (26/26 conditions)	> 6
Dimensions (L x W x H)	92.7 x 34 x 63.6 cm
Weight	49 kg
Energy Type	Electric
Refrigerant	R410 (Ecological)
Control Panel	LCD with Touch & Go technology

Feature	Detail
Compatibility	Compatible with all pool types, including salt treatment.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Poolstar website. Keep your proof of purchase for warranty claims.

Included accessories: Anti-vibration support kit, PVC connectors (Ø 50mm 1½"), condensate drainage hose, multi-language user manual, wired control extension (10m).

Related Documents - PC-SLP090

	[Poolex Silverline Top Heat Pump Installation and User Manual](#) Discover the Poolex Silverline Top heat pumps, offering up to 80% energy savings for swimming pools with R32 refrigerant. This manual provides detailed installation, operation, and maintenance guidance.
	[Poolex Silverline Top Heat Pump: Installation and User Manual](#) Comprehensive installation and user manual for the Poolex Silverline Top series of heat pumps. Includes safety instructions, technical specifications, installation guides, operation, maintenance, and troubleshooting.
	[Poolex Silverline FI Heat Pump Installation and User Manual](#) Comprehensive guide for the Poolex Silverline FI heat pump, covering installation, operation, maintenance, and troubleshooting. Learn how to set up and use your heat pump for optimal performance.
	[Poolex Poolican: The 4-in-1 Smart Pool Manager for Pools up to 25m³](#) Discover the Poolex Poolican, an all-in-one pool manager that simplifies maintenance with circulation, filtration, heating, and treatment. Control your pool effortlessly via smartphone. Ideal for pools up to 25m³.

[Poolex Silverline Top Wärmepumpe: Installations- und Bedienungsanleitung](#)
Umfassende Installations- und Bedienungsanleitung für die Poolex Silverline Top Wärmepumpen-Serie (Modelle 6 bis 20 kW). Enthält wichtige Sicherheitshinweise, technische Daten, Installationsschritte, Bedienungsanleitungen und Wartungsinformationen.

[Poolex Silverline FI Installation and User Manual](#)
Comprehensive installation and user manual for the Poolex Silverline FI series heat pumps (Models 70, 90, 120, 150, 200), covering safety, installation, operation, maintenance, and troubleshooting.