



SIRO Series

Self-Priming Swimming Pool Pumps Installation, Operation & Maintenance Manual

Oxygen Codes: 106.07.302 • 303 • 304 • 305 • 311



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1. Safety Warnings

CAUTION — BEFORE INSTALLATION

Read this entire manual carefully before installing or operating the pump. Failure to follow the safety instructions may cause serious injury, property damage or death. Keep this manual for future reference. This appliance is intended for household and indoor use, for swimming pools only.

RISK OF ELECTRIC SHOCK

Before any installation or maintenance work, disconnect the power supply. Electrical connection must be carried out only by a licensed electrician in accordance with national wiring regulations (EN 60335-2-41). The pump must be protected by a residual-current device (GFCI/RCD) rated ≤ 30 mA. Never make the electrical connection before the pipework has been connected.

GROUNDING REQUIRED

The pump must be connected to a properly earthed supply. The equipotential bonding conductor between the pool and the pump must have a cross-section of 2.5–6 mm². If the power cable is damaged, it must be replaced by the manufacturer, its service agent or a qualified technician to avoid a hazard.

WATER SAFETY & DRY RUNNING

The pump must NEVER operate dry. Always fill the prefilter body with water before start-up. Dry running destroys the mechanical seal and impeller and voids the warranty. Do not let people enter water while a mains-powered pump is running. The appliance must not be supplied through an external switching device such as a timer.

INTENDED USE

The SIRO Series are self-priming centrifugal pumps intended solely for the circulation and filtration of clean swimming-pool water at 5–50°C. They must NOT be used for sewage, water with coarse solids, chemicals in concentrated form, hydrocarbons, solvents, or flammable liquids.

This product complies with standard EN 60335-2-41 and with European Directives 2014/35/EU (Low Voltage) and 2014/30/EU (EMC). CE-EMC tested (SGS, 2026). For warranty terms, see Section 11 — Warranty & Contact.

2. Package Contents

On delivery, check that the package contains all of the following. In case of missing parts or transport damage, contact the Oxygen Service Department immediately.

- SIRO self-priming pump with transparent prefilter lid and basket
- Ø50 mm union connectors (G2¼")
- Prefilter basket (installed)
- Installation & operation manual (this document)
- Oxygen warranty certificate

3. Product Overview

The SIRO Series are single-stage, self-priming centrifugal pumps for swimming-pool circulation and filtration. A large transparent prefilter (1.5 L basket) traps leaves and debris before the impeller and can be inspected at a glance. The pump self-priming from a suction lift of up to 2.5 m and incorporates a total-emptying system that drains residual liquid at each stop. The body is corrosion-resistant engineered plastic with a pure-copper motor winding.



SIRO Series self-priming pump with transparent prefilter

Key Features

- Self-priming up to 2.5 m suction lift
- Large transparent prefilter — 1.5 L basket, easy inspection
- Total-emptying system — drains residual liquid at each stop
- Single-phase motor with built-in USA (TI) thermal protector
- Pure-copper motor winding, insulation class F
- Protection degree IPX5
- Corrosion-resistant engineered-plastic body
- Ø50 mm union connections (G2¼")

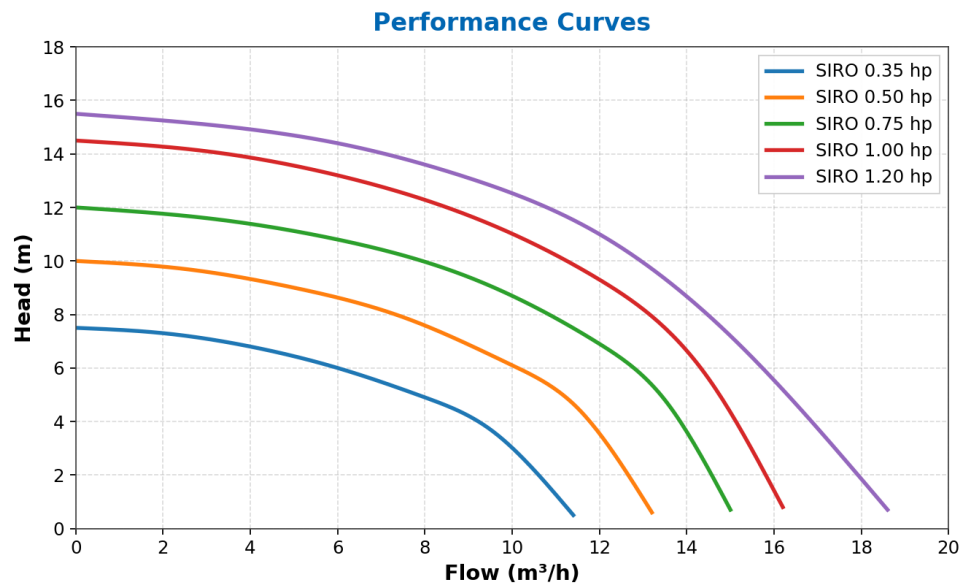
4. Technical Specifications

Model	Oxygen Code	Power (kW / HP)	Qmax	Hmax	Current
SIRO 0.35 hp	106.07.302	0.25 / 0.35	11.5 m³/h	7.55 m	1.6 A
SIRO 0.50 hp	106.07.303	0.37 / 0.50	13.3 m³/h	10.0 m	2.0 A
SIRO 0.75 hp	106.07.304	0.55 / 0.75	15.1 m³/h	12.3 m	3.2 A
SIRO 1.00 hp	106.07.305	0.75 / 1.00	16.2 m³/h	14.7 m	3.8 A
SIRO 1.20 hp	106.07.311	0.90 / 1.20	18.7 m³/h	15.4 m	4.6 A

Common Features

Voltage / Frequency	220-240 V / 50 Hz (single-phase)
Self-Priming Height	up to 2.5 m
Prefilter Volume	1.5 L
Connection Ports	Ø50 mm unions (G2¼")
Protection Degree	IPX5
Insulation Class	F
Thermal Protector	built-in (USA TI)
Max. Working Pressure	0.5 MPa (5 bar)
Medium Temperature	5 – 50 °C
Overall length (L)	438 mm (0.35-1.00 hp) · 470 mm (1.20 hp)
Ambient temperature	max. 50 °C

Performance Curves

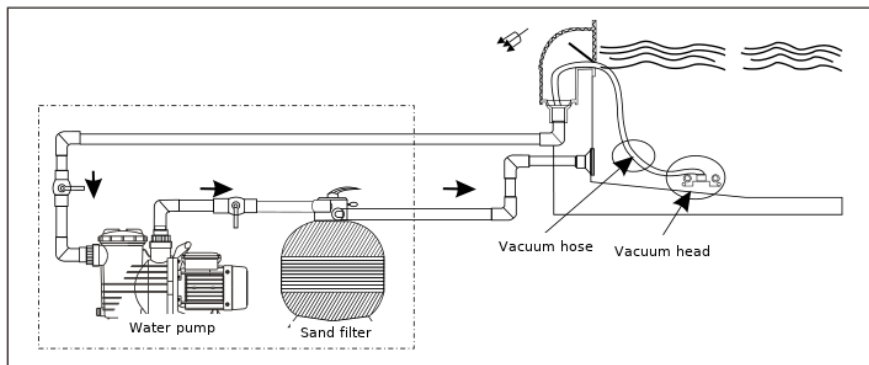


SIRO Series — flow vs. head (2900 r/min)

Performance values are nominal, measured with clean water at 20°C. Actual performance depends on pipe length, diameter and total head.

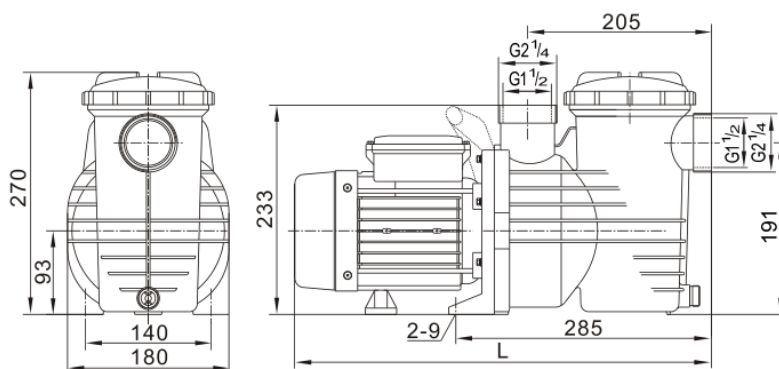
5. Installation

Install the pump in a dry, well-ventilated place as close to the pool as possible, on a firm, flat base that prevents noise and vibration. Keep the suction and discharge pipes as short as possible and of a diameter equal to or greater than the pump ports. Avoid traps in the pipework, as they impede total emptying. The rating label must remain visible after installation.



Typical installation — pump, sand filter and vacuum line

Overall Dimensions



Overall dimensions (mm)

Seal all connectors and unions well; avoid any dripping onto the motor.

The suction and discharge pipes must not rest on the pump.

Fit isolating valves on both ports to allow prefilter servicing.

For Class I fixed installations without a plug, provide a disconnection means with ≥ 3 mm contact separation.

6. Electrical Connection

Connect the pump to a 220–240 V / 50 Hz earthed supply. The circuit must be protected by a residual-current device (RCD) rated ≤ 30 mA and the supply cable must comply with EMC standards. Single-phase motors have a built-in thermal protector. Check that the mains voltage and frequency match the pump name plate before connecting. The equipotential bonding conductor must be 2.5–6 mm². Do not supply the pump through a timer or external switch.

7. Priming & Start-up

Before the first start-up, verify that the pump shaft turns freely. Fill the prefilter body with water to the level of the suction port and refit the transparent lid — the pump must NEVER run dry. Start the pump only when the suction and discharge pipes are connected and there is no obstacle in them. The pump self-priming from a suction lift of up to 2.5 m; priming takes 2-3 minutes while air is expelled. Check the motor rotation direction against the arrow on the fan cover. Once primed, adjust the valves to obtain the desired flow.

8. Maintenance

The SIRO pumps require no special maintenance or programming. Always disconnect the power supply before any maintenance.

Inspect and empty the transparent prefilter basket regularly; rinse it with clean water.

Close the isolating valves before opening the prefilter lid; reseal the lid O-ring correctly.

If the pump will be idle for a long period, disassemble, clean and store it in a dry, well-ventilated place.

After correct installation the pump can be fully emptied through the drain — protect it from frost.

Any repair to the motor, seal or cable must be carried out by a qualified technician.

9. Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power / tripped RCD	Check the incoming power, circuit breaker and GFCI/RCD.
Pump does not start	Impeller blocked	Disconnect power; clear the impeller and prefilter.
Motor hums but does not run	Low supply voltage / long extension cord	Check the supply voltage; avoid extension cords.
Motor stops after a while	Thermal protector tripped (overheat)	Disconnect and let it cool; check for dry running.
Pump does not prime	Air leak on the suction side	Seal all suction unions; refill the prefilter with water.
Pump does not prime	Prefilter lid not sealed	Refit the lid and its O-ring correctly.
Low or no flow	Prefilter basket clogged	Clean the prefilter basket.
Low or no flow	Suction inlet blocked or air being sucked	Clear the inlet; ensure it stays below the water level.
Low or no flow	Jets pointed into the suction inlet	Point the return jets away from the suction inlet.
Water leaks at the seal	Worn mechanical seal	Have the mechanical seal replaced by a technician.
Excessive vibration / noise	Loose base or worn bearing	Secure the base; service the pump.

10. Spare Parts

When ordering spare parts, quote the Oxygen code of your pump (106.07.302–305 or 106.07.311) and the description of the part. Main serviceable components:

- Transparent prefilter lid and lid O-ring
- Prefilter basket
- Mechanical seal
- Impeller and diffuser
- Motor with capacitor and thermal protector
- Union connectors and gaskets (Ø50 mm)

Use only original Oxygen spare parts. Non-original parts may impair safety and void the warranty. For a full exploded parts diagram, contact the Oxygen Service Department.

11. Warranty & Contact

The SIRO Series carries a manufacturer warranty against defects in materials and workmanship under normal use, in accordance with Oxygen's terms of sale. The warranty does not cover damage from dry running, unsuitable liquids, improper installation, or repair by unauthorised persons. Retain your proof of purchase.

Contact Information

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ISO Certifications

9001:2015 Quality Management <i>EUROCERT</i>	14001:2015 Environmental Management <i>BQV</i>	45001:2018 Health & Safety <i>BQV</i>
22301:2019 Business Continuity <i>EUROCERT</i>	46001:2019 Water Efficiency <i>BQV</i>	

Recycling of materials must be carried out in accordance with applicable regulations.