



Hera

Self-Priming Pool Pump Series with Pre-Filter (0.75–2.0 HP,
Single-Phase 230V)

Installation, Operation & Maintenance Manual

Oxygen codes: 106.07.126 / 127 / 128 / 129 / 133 | (0.75 / 1.0 / 1.2 / 1.5 / 2.0 HP —
Single-phase 230V)



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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 can cause serious injury, property damage or death. Keep this manual in a safe place for future reference.

ELECTRICAL HAZARD

Before any installation or maintenance work, disconnect the power supply. Electrical connection must be carried out only by a qualified electrician in accordance with the national wiring rules. The pump must be protected by a residual-current device (GFCI/RCD) with a rated current ≤ 30 mA.

EARTHING REQUIRED

The pump must be connected to an earthed power supply. If you are not sure whether an earthing system is present, contact a qualified electrician. If the power cord is damaged, it must be replaced immediately by a qualified technician to avoid a hazard.

WATER SAFETY & DRY RUNNING

Never run the pump without water. Dry running destroys the mechanical seal and the impeller and voids the warranty. Make sure the pre-filter is completely filled with water before start-up (priming).

INTENDED USE

The Hera pump is intended exclusively for the circulation and filtration of freshwater in pools and spas. Use with chemicals, hydrocarbons, sludge, solvents, or with water above 50°C or with seawater, is prohibited. The appliance is intended only for domestic pool use.

The product complies with EN 60335-2-41 and with the European Directives 2014/35/EU (Low Voltage) and 2014/30/EU (Electromagnetic Compatibility). For warranty terms, see Section 13 — Warranty & Contact.

2. Package Contents

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

- Hera pool pump with integrated pre-filter
- Transparent pre-filter lid with sealing gasket
- Pre-filter basket (large-particle strainer)
- 2 connection unions Ø50 (G2¼) for inlet and outlet
- Union sealing gaskets (O-rings)
- Power cord with plug (single-phase version)
- Installation and operation manual (this document)
- Oxygen warranty certificate

3. General Product Description

The Hera series are self-priming pool pumps, made of reinforced thermoplastic with high resistance to UV and pool chemicals. They incorporate a pre-filter with a transparent lid that allows visual monitoring of the basket without removal. They are an ideal solution for spas and medium-to-large pools.

Key Features

- Self-priming with a suction lift of up to 2.5 m
- Pre-filter with transparent lid and high-capacity basket
- SUS316 mechanical seal — high corrosion resistance
- Asynchronous motor with thermal protection (TP) and Class-F insulation
- IPX5 protection rating — suitable for the pool environment
- Operation with water up to 50°C
- Ø50 mm connections (G2¼ thread) — easy hydraulic installation
- Easy maintenance — tool-free basket removal

4. Technical Specifications

Single-Phase Variants (230V / 50 Hz)

Oxygen code	Power (HP)	Power (kW)	Qmax (m³/h)	Hmax (m)
106.07.126	0.75	0.55	15.3	10.0
106.07.127	1.00	0.75	20.4	12.5
106.07.128	1.20	0.90	22.2	15.0
106.07.129	1.50	1.10	23.4	17.5
106.07.133	2.00	1.50	28.2	18.5

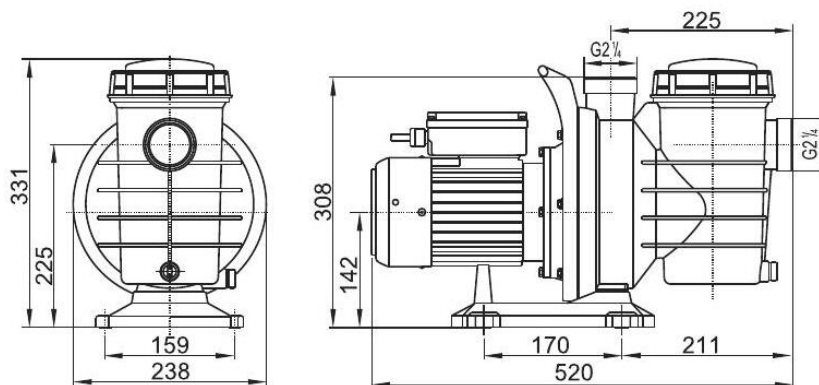
The Qmax and Hmax values are taken from the factory data (table & performance curves at 50 Hz). Actual performance depends on the installation.

Common Characteristics

Pump type	Self-priming with pre-filter
Inlet/outlet connections	Ø50 mm (G2¼ thread)
Self-priming suction lift	up to 2.5 m
Maximum water temperature	50°C
Storage temperature	-10°C to +50°C
Ambient relative humidity	≤ 95%
Protection rating	IPX5
Insulation class	F
Thermal protection (TP)	Built-in
Body material	Reinforced thermoplastic, UV-resistant
Mechanical seal	SUS316
Motor shaft	Stainless steel
Supply voltage	230V / 50Hz (single-phase)

5. Dimensions

Dimensions of the Hera series in millimetres (mm). The overall length (L) may vary slightly depending on the motor of the variant.

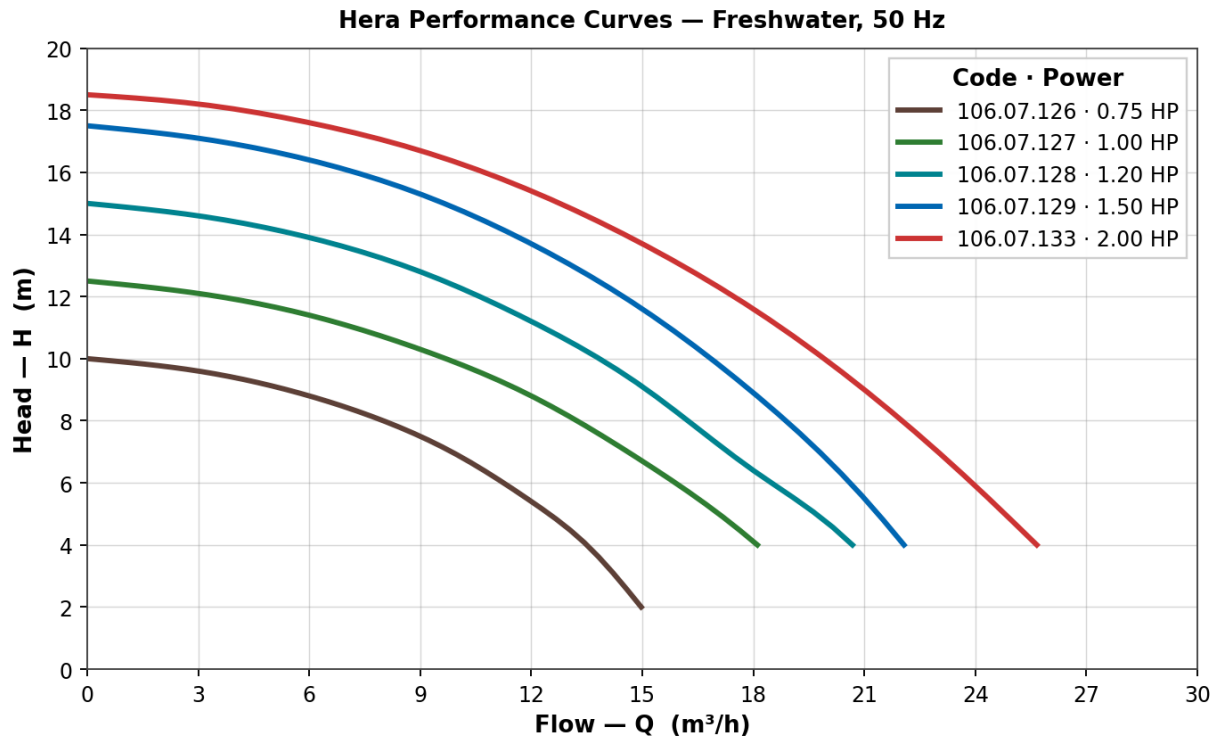


Hera pump body dimensions (front and side view).

Base width	238 mm
Body height	331 mm
Suction axis height	142 mm
Overall length (L)	≈ 520 mm
Connection ports	G2 1/4 (Ø50 mm)

6. Performance Curves

The curves below show the relationship between head (H) and flow (Q) for each variant of the Hera series under freshwater conditions at 50 Hz. The data is factory-derived and indicative — actual performance depends on the installation (pipe length/diameter, bends, valves, filter cleanliness).



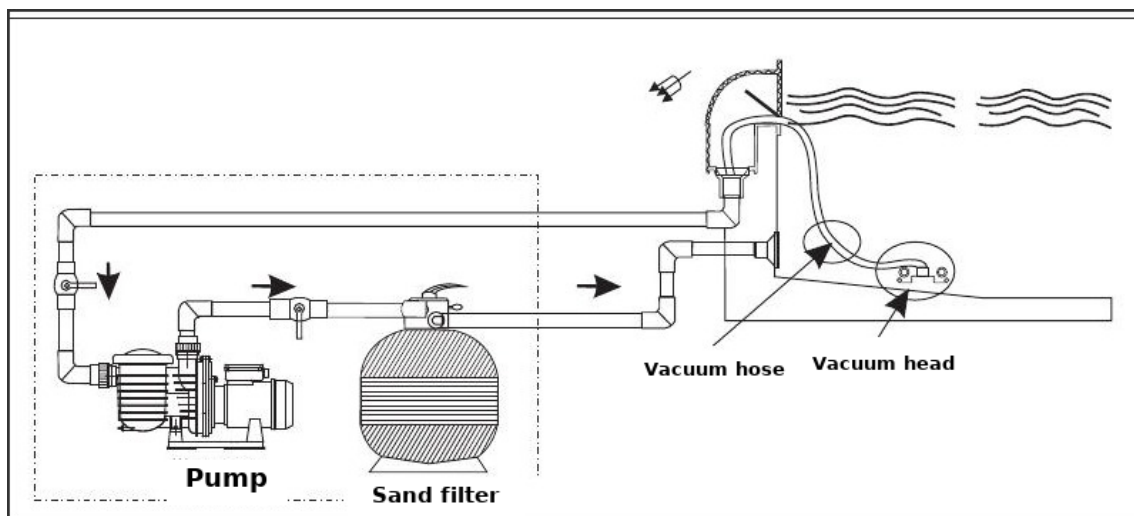
Q-H curves of the Hera series — freshwater, 50 Hz.

7. Installation

Mounting Location

- Install the pump as close as possible to the pool water level (suction lift up to 2.5 m).
- The distance from the pool must be ≥ 3 m (national wiring rules).
- The installation area must be well ventilated, dry and protected from sun/rain.
- The mounting base must be flat and stable, able to support the weight of the pump.
- Leave at least 400 mm of free space around the pump for maintenance.

Installation Diagram



Typical Hera pump installation with sand filter and vacuum kit.

Hydraulic Connection

- Use pressure PVC pipe of diameter $\geq \text{Ø}50$ (DN50) for suction and discharge.
- Keep pipe runs and 90° bends to a minimum for lower pressure losses.
- Fit isolation valves on either side of the pump for easy maintenance.
- Seal the unions with PTFE tape or a suitable liquid sealant — without over-tightening.
- Give the suction pipe a slight slope towards the pump to avoid trapped air.

8. Electrical Connection

MANDATORY PROTECTION

The pump supply must pass through a residual-current device (GFCI/RCD) ≤ 30 mA and be protected by a suitable fuse/circuit breaker. Installation is carried out only by a qualified electrician.

Recommended Cable Cross-Sections (Single-phase 230V)

Power (HP)	Cable cross-section
0.75	3 × 1.5 mm ²
1.00	3 × 1.5 mm ²
1.20	3 × 2.5 mm ²
1.50	3 × 2.5 mm ²
2.00	3 × 2.5 mm ²

Check the mains voltage on the pump nameplate before connection.

The single-phase motor has built-in thermal protection (automatic reset).

Earth the pump at an earthing point with resistance $\leq 0.2 \Omega$.

Do not use extension leads.

Equipotential bonding conductors must have a cross-section of 2.5–6 mm².

9. Pre-Start Checks & Priming

Pre-Start Checklist

Check that the power supply is compatible with the motor (voltage, frequency).

Confirm that the pump is firmly fixed and there is no stress from the pipework.

Make sure the pump shaft rotates freely.

Open the suction and discharge isolation valves.

Remove the transparent lid, fill the pre-filter with water to the top, and carefully close the lid.

Priming Procedure

Start the pump and watch the transparent lid.

Within 1–3 minutes, the air in the suction is expelled and the pump fills completely with water.

If priming is not completed within 5 minutes, stop the pump and check suction tightness, pre-filter fill level and any blocked components.

Do not run the pump dry for more than 5 minutes.

THE PUMP MUST NEVER RUN DRY.

10. Maintenance

DISCONNECT BEFORE MAINTENANCE

Before any maintenance work, disconnect the power supply at the main switch and close the isolation valves.

Weekly Maintenance

Check and clean the pre-filter basket (or whenever it appears full).

Rinse the basket with clean water — remove leaves, hair, insects.

Monthly Maintenance

Check the pre-filter lid gasket for wear — lubricate with water-contact silicone if needed.

Check the transparent lid for cracks — replace immediately if found.

Visually check the connections and unions for leaks.

Annual Maintenance & Winterization

Full cleaning of the pump body and pre-filter.

Check the mechanical seal and motor bearings for leaks/noise.

Winter: disconnect the power and fully drain the water (drain plug).

Leave the pre-filter lid open for ventilation — frost protection.

11. Troubleshooting

Problem	Possible Cause	Check / Solution
The pump does not start	No power supply	Check the fuse / breaker / GFCI.
The pump does not start	Wrong connection (voltage)	Verify against the nameplate.
The pump does not start	Thermal protection tripped	Wait 10-15 minutes, check ventilation.
The pump does not start	Blocked shaft	Switch off, check for a foreign object.
No priming	Pre-filter not filled with water	Remove the lid, fill completely with water.
No priming	Air leak in the suction	Check unions, seals and the inlet valve.
No priming	Clogged basket or sand filter	Clean the pre-filter basket, check the filter.
Low flow	Clogged pre-filter basket	Clean the basket.
Low flow	Clogged sand filter	Backwash the sand filter.
Low flow	Partial air leak	Check the tightness of the lid and suction unions.
Excessive noise	Cavitation	Check the water level, fully open the valves.
Excessive noise	Foreign object in the basket	Switch off, clean the basket.
Excessive noise	Worn bearings	Repair by an authorised service centre.
Leak at the lid	Faulty gasket	Replace the O-ring, lubricate with silicone.
Persistent leak from the body	Worn mechanical seal	Replace the seal by an authorised service centre.

12. Spare Parts & Accessories

Use only genuine Oxygen spare parts to maintain performance and warranty. When ordering, state the Oxygen code and the pump model.

Spare part	Description / Use
Mechanical seal	SUS316 — shaft sealing
Impeller	Per power (HP) — state the model
Diffuser	Directs the flow towards discharge
Pre-filter basket	Particle-collection strainer
Transparent lid + O-ring	Watertight pre-filter cover
Union gaskets / O-rings	Sealing of the Ø50 connections
Start capacitor	Single-phase motor — per power
Drain plug	Draining / winterization

13. Warranty & Contact

Oxygen provides a two (2) year warranty from the date of purchase for all manufacturing components of the Hera series, provided that installation is carried out correctly in accordance with this manual and with the company's warranty terms.

Excluded from the warranty

- Wear from dry running.
- Damage from exceeding the maximum water temperature (>50°C) or use in seawater.
- Damage from incorrect installation or electrical connection outside specifications.
- Damage from chemical attack (e.g. over-chlorination, non-approved chemicals).
- Frost damage (incorrect winterization).
- Consumables: pre-filter basket, O-rings, gaskets, capacitor.

Contact Information

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ISO Certifications

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

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