



CALYPSO

Self-Priming Pool Pump Series (3-10 HP) Installation, Operation & Maintenance Manual

Oxygen codes: 102.01.131 / 132 / 133 / 134 / 135 | (3.0 / 4.0 / 5.0 / 7.5 / 10 HP)



Scan for more

www.oxygen.gr

Contents

1.	Safety Warnings	3
2.	Package Contents	4
3.	General Product Description	4
4.	Technical Specifications	5
5.	Dimensions	6
6.	Performance Curves	7
7.	Installation	8
8.	Electrical Connection	9
9.	Pre-Start Checks & Priming	9
10.	Maintenance	10
11.	Troubleshooting	11
12.	Warranty & Contact	11

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. Do not power the pump through an external timer switch that regularly switches the circuit on and off.

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 by the manufacturer, its service agent or a qualified technician (type-Y attachment) 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 pump body and the strainer basket are completely filled with water before start-up (priming). The pump is intended exclusively for swimming pools.

INTENDED USE

The Calypso pump is intended exclusively for the circulation and filtration of swimming-pool water. Use with chemicals, hydrocarbons, sludge, solvents or flammable liquids, or with water above 50°C, is prohibited. Do not touch moving parts during operation. The appliance is not intended for use by persons (including children) with reduced physical or mental abilities without supervision.

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 12 — 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.

- Calypso pool pump with integrated pre-filter
- Transparent pre-filter lid with sealing gasket
- Pre-filter basket (large-particle strainer)
- Inlet/outlet connection unions (3" / 4")
- Union sealing gaskets (O-rings)
- Installation and operation manual (this document)
- Oxygen warranty certificate

3. General Product Description

The Calypso series consists of single-stage self-priming centrifugal pumps, designed for the circulation and filtration of water in medium and large pools. They are made of reinforced thermoplastic with high resistance to UV and pool chemicals, and feature a full-drain system that prevents residual water from remaining after each stop.

Key Features

- Self-priming after the first fill
- Integrated pre-filter with transparent lid and high-capacity basket
- Full water-drain system at every stop
- Asynchronous motor with thermal protection (single-phase models)
- Durable thermoplastic body, UV-resistant
- Large 3" / 4" connections for high flow rates
- Power range 3.0–10 HP for medium and large installations
- Operation with water up to 50°C

4. Technical Specifications

The following values apply to operation at 50 Hz and are taken from factory data. The maximum flow (Qmax) is measured at zero head and the maximum head (Hmax) at zero flow.

Calypso Series Variants (50 Hz)

Oxygen code	Power (HP)	Power (kW)	Qmax (m³/h)	Hmax (m)
102.01.131	3.0	2.2	65	14
102.01.132	4.0	3.0	78	15
102.01.133	5.0	4.0	95	17
102.01.134	7.5	5.5	102	22
102.01.135	10	7.5	126	21.5

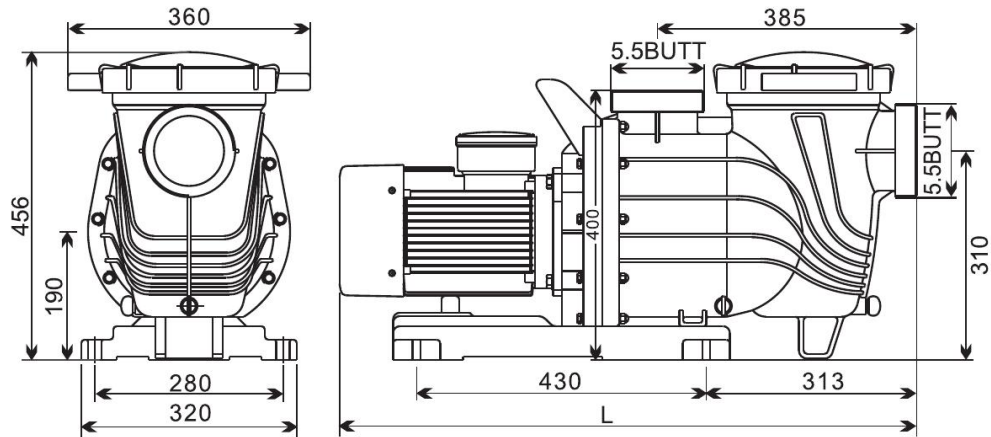
Common Characteristics

Pump type	Single-stage centrifugal, self-priming with pre-filter
Inlet/outlet connections	3" / 4"
Maximum water temperature	50°C
Storage temperature	-10°C to +50°C
Ambient relative humidity	≤ 95%
Thermal protection (TP)	Built-in (single-phase models)
Body material	Reinforced thermoplastic, UV-resistant
Voltage 3.0-4.0 HP	230V/50Hz (single-phase) or 400V/50Hz (three-phase)
Voltage 5.0-10 HP	400V/50Hz (three-phase)
Compliance standard	EN 60335-2-41

The 5.0, 7.5 and 10 HP models are available exclusively in a three-phase version (400V). The 3.0 and 4.0 HP models are available in a single-phase (230V) or three-phase (400V) version.

5. Dimensions

Dimensions of the Calypso series in millimetres (mm). The overall length (L) varies per power variant.



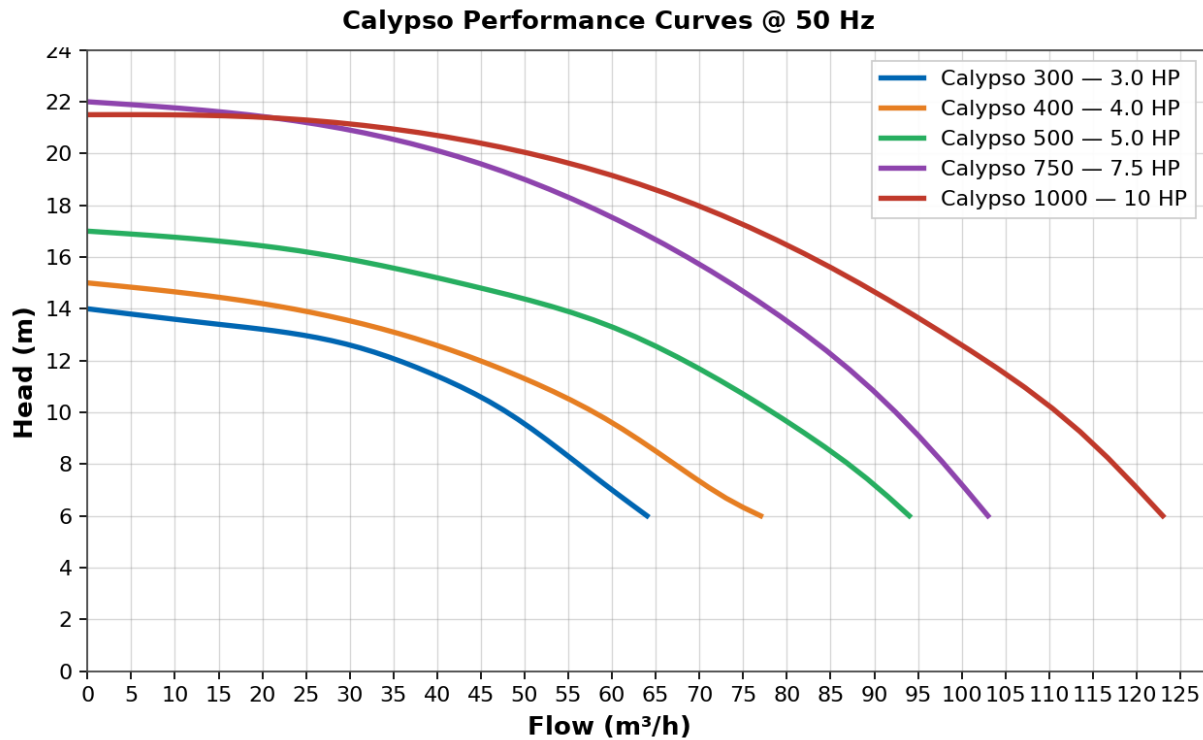
Calypso pump body dimensions (front and side view).

Overall length (L) per variant

Power (HP)	L — Overall length (mm)
3.0 HP	800
4.0 HP	800
5.0 HP	857
7.5 HP	857
10 HP	887

6. Performance Curves

The curves below show the relationship between head (H) and flow (Q) for each variant of the Calypso series 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 Calypso series at 50 Hz (5 variants).

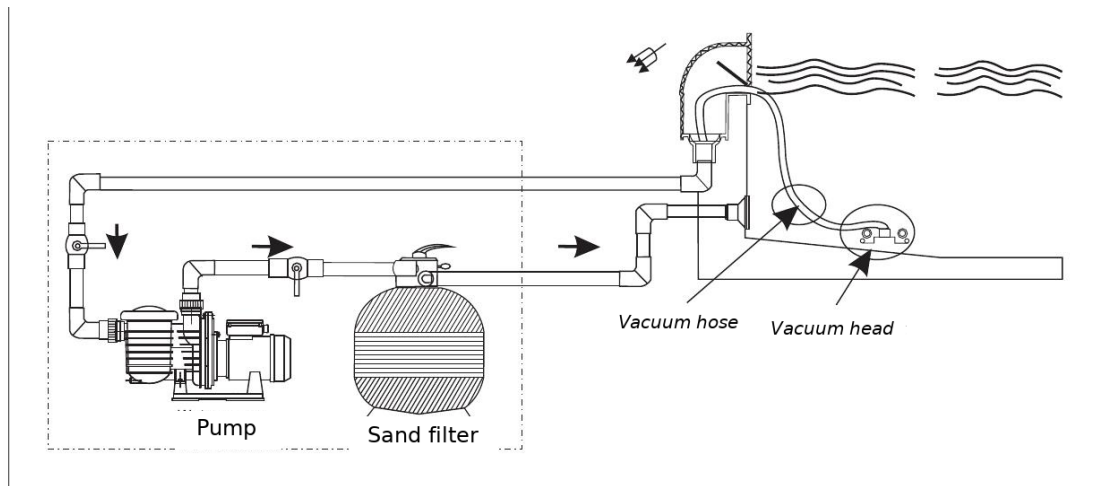
7. Installation

Mounting Location

The pump is installed horizontally, as close as possible to and below the pool water level.
The distance from the pool must comply with the national wiring rules (typically ≥ 3.5 m).
The installation area must be well ventilated, dry and protected from sun and rain.
Fix the pump with screws through the base holes to avoid noise and vibration.
The mounting base must be flat, stable and able to support the weight of the pump.

Hydraulic Connection

The suction and discharge pipes must have a diameter equal to or greater than the pump connection.
The suction pipework should be as short as possible and free of air traps.
The pipes must not rest on the pump body — provide independent support.
Seal all unions and joints well; avoid leaks onto the motor.



Typical pool pump-filter installation diagram.

8. Electrical Connection

QUALIFIED ELECTRICIAN ONLY

The electrical installation must have a multi-pole disconnection device with a contact opening of at least 3 mm and must comply with national regulations. Make sure the mains voltage and frequency match the motor nameplate.

Connection Requirements

- Supply through a residual-current device (RCD) with a rated leakage current ≤ 30 mA.
- Correct connection of the earth cable — mandatory.
- Equipotential bonding between pool and pump with a conductor of 2.5–6 mm² cross-section.
- Single-phase models have built-in thermal protection.
- On three-phase models, check the motor rotation direction according to the mark on the fan cover.
- Do not use an extension lead to power the pump.

9. Pre-Start Checks & Priming

Pre-Start Checks

- Make sure the pump shaft rotates freely.
- Check that the mains voltage and frequency match the nameplate.
- Make sure all hydraulic connections are watertight.
- Check that there is a minimum water level and that the pump will not run dry.

Priming Procedure

- Remove the transparent pre-filter lid.
- Fill the pre-filter body with water up to the port level.
- Refit the basket and the lid, making sure the gasket is seated correctly.
- Start the pump; it will complete priming within a few minutes.
- After stopping, drain the water according to the maintenance instructions when required.

10. Maintenance

DISCONNECT BEFORE MAINTENANCE

Before any maintenance or cleaning work, disconnect the pump from the power supply and release the circuit pressure.

Routine Maintenance

Clean the pre-filter basket regularly of leaves and particles.

Check the lid gasket and lubricate it with silicone when needed.

Periodically check the connections for leaks.

The pump requires no special maintenance or scheduling under normal use.

Winterization

During prolonged inactivity, disassemble, clean and store the pump in a dry, well-ventilated place.

Fully drain the water from the body to avoid frost damage.

Circuit cleaning: (1) fill with water up to the port level, (2) run for 2-3 minutes, (3) drain the water after the motor stops.

11. Troubleshooting

The table below summarises the most common problems and checks. If the problem persists, contact a qualified technician or the Oxygen Service Department.

Problem	Possible Cause	Check / Solution
The pump does not start	No power supply	Check the fuse/breaker, the residual-current device (RCD) and the power connection.
The pump does not start	Thermal protection tripped	Let the motor cool down; check for overload or a blocked shaft.
The pump does not start	Blocked shaft	Disconnect the power and check whether the shaft rotates freely.
The motor hums but does not turn	Wrong voltage or phase loss (three-phase)	Check the voltage and all three phases at the panel.
The pump does not prime	Priming not performed	Fill the pre-filter with water and repeat the priming procedure.
The pump does not prime	Air entering the suction	Check the tightness of the unions, pre-filter lid and suction pipe.
Low flow	Clogged basket or filter	Clean the pre-filter basket and check the sand filter.
Low flow	Partly closed valve or restriction	Fully open the valves and check for restrictions/bends in the pipes.
Low flow / pressure	Low supply voltage	Check the mains voltage; avoid cable extensions.
Noise or vibration	Cavitation or loose mounting	Check for adequate water suction and tighten the mounting base.
Water leak	Worn O-ring or mechanical seal	Replace the gasket; for the mechanical seal, contact a technician.
The pump stops periodically	Thermal trip due to overheating	Improve room ventilation and check for overload.

12. Warranty & Contact

Oxygen provides a two (2) year warranty from the date of purchase for all manufacturing components of the Calypso 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).
- Damage from incorrect installation or electrical connection outside specifications.
- Damage from chemical attack (e.g. over-chlorination, non-approved chemicals).
- Frost damage (incorrect winterization).
- Wear of the pre-filter basket and O-rings (consumables).

Contact Information

Company	OXYGON — Karavasilis Stergios & Sia EE
Headquarters	Karamaouna St., N. Rysio, 57001, Thessaloniki, Greece
Phone	+30 2312 208 240
Mobile	+30 6945 157 589
Email	info@oxygen.gr
Website	www.oxygen.gr
Romania subsidiary	OXYGON SRL — Str. Constelatiei 1 Bis, Voluntari, 077191, Bucharest
Romania Phone	+40 753 380 848
Romania Email	info@oxygen.ro

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.