OXYGON

SWIMMING POOL • WATER TREATMENT • HEATING • COOLING



TRITON 250

Submersible Drainage Pump — Clean Water

Installation, Operation & Maintenance Manual

Oxygon Code: 106.07.306 (OX2503)

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Contents

1. Safety Warnings 3
2. Package Contents 3
3. Product Overview 4
4. Technical Specifications 5
5. Installation 6
6. Electrical Connection 6
7. Operation & Float Switch 6
8. Maintenance 7
9. Troubleshooting 7
10. Spare Parts 8
11. Warranty & Contact 8

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 in a safe place for future reference.

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. The pump must be protected by a residual-current device (GFCI/RCD) with a rated current of ≤ 30 mA.

GROUNDING REQUIRED

The pump must be connected to a properly earthed power supply. If you are not certain that an effective grounding system exists, contact a licensed electrician. If the power cable is damaged, it must be replaced immediately by a qualified technician to avoid a hazard.

WATER SAFETY & DRY RUNNING

Never operate the pump below the minimum water level. Dry running destroys the mechanical seal and impeller and voids the warranty. Do not let people enter water in which a mains-powered pump is submerged.

INTENDED USE

The TRITON 250 is intended solely for pumping clean or slightly turbid water containing solid particles smaller than 0.2 mm — landscape ponds, fountains, filter drainage, planting and general water transfer. It must NOT be used for sewage, chemicals, hydrocarbons, solvents, salt water, or water above 35°C.

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

2. Package Contents

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

- TRITON 250 submersible pump with attached automatic float switch
- Hose connector (G1¼” – 1½”, 32/40 mm)
- 10 m power cable with plug (fitted)
- Installation & operation manual (this document)
- Oxygon warranty certificate

3. Product Overview

The TRITON 250 is a compact plastic submersible pump for clean-water drainage and circulation. Its open impeller passes solids up to 0.2 mm, while the fully submersible IP68 motor allows continuous operation underwater. A built-in automatic float switch starts and stops the pump with the water level.



TRITON 250 submersible drainage pump

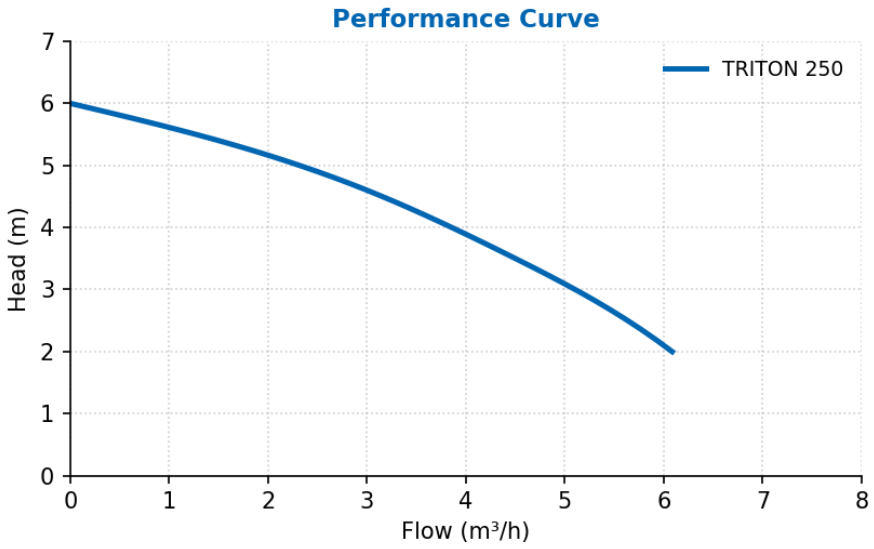
Key Features

- Open impeller — passes solid particles up to 0.2 mm
- Fully submersible motor, protection class IP68
- Pure-copper motor winding, high-temperature bearing
- Single-phase motor with built-in USA (TI) thermal protector
- Double shaft seal for long service life
- Automatic vertical/round float switch (on/off with water level)
- 10 m power cable as standard
- Insulation class F — resistant to high temperature

4. Technical Specifications

Oxygon Code	106.07.306
Input Power (P1)	250 W
Output Power (P2)	120 W
Voltage / Frequency	220–240 V / 50 Hz
Rated Current	1.2 A
Max. Flow (Qmax)	7.5 m³/h (125 l/min)
Max. Head (Hmax)	6 m
Rated Duty Point	4 m³/h @ 3.5 m
Max. Solids Passage	< 0.2 mm
Discharge Outlet	G1¼” – 1½” (32 / 40 mm)
Protection Degree	IP68
Insulation Class	F
Electrical Class	I (earthed)
Power Cable	10 m
Max. Submersion Depth	5 m
Float Switch Start Level	375 mm
Float Switch Stop Level	135 mm
Medium Temperature	0 – 35 °C
Net Weight	4.3 kg

Performance Curve

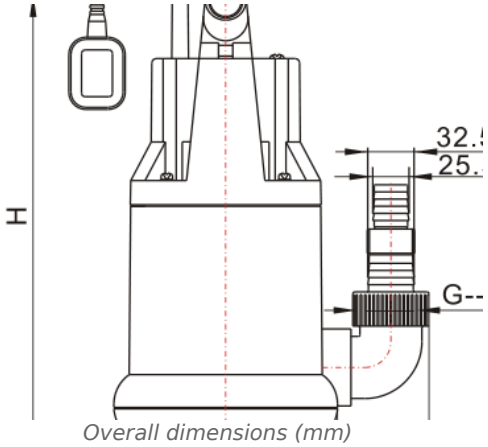


TRITON 250 — flow vs. head (2860 r/min)

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

5. Installation

Place the pump on a firm, flat surface at the lowest point of the area to be drained, so the intake is not obstructed by mud or debris. Connect a hose to the discharge outlet using the supplied connector. Ensure the pump remains submerged during operation and never exceeds the maximum submersion depth of 5 m.



Overall dimensions (mm)

- Lower the pump by the handle — never by the power cable.
- Keep the intake clear of large debris; use a solid base in muddy conditions.
- Allow the float switch enough clearance to move freely.
- For fixed installations, use a check valve on the discharge line.

6. Electrical Connection

The TRITON 250 is supplied with a 10 m cable and plug for connection to a 220–240 V / 50 Hz earthed socket. The circuit must be protected by a residual-current device (RCD) rated ≤ 30 mA. Do not join or extend the power cable; if a longer run is required, relocate the socket. Never carry or suspend the pump by its cable.

7. Operation & Float Switch

With the float switch fitted, the pump starts automatically when the water rises to the switching level and stops when it drops below it, protecting the pump from dry running. Ensure the float can travel freely. For continuous manual operation, the float can be fixed in the raised position — in this case, supervise the water level so the pump never runs dry.

8. Maintenance

Regular maintenance keeps the pump reliable and preserves the warranty. Always disconnect the power supply before any maintenance.

Rinse the intake base and impeller area with clean water after use in dirty conditions.

Check that the impeller turns freely and is free of fibres or debris.

Inspect the power cable for damage before each use.

For winter storage, clean and drain the pump and store it in a dry, frost-free place.

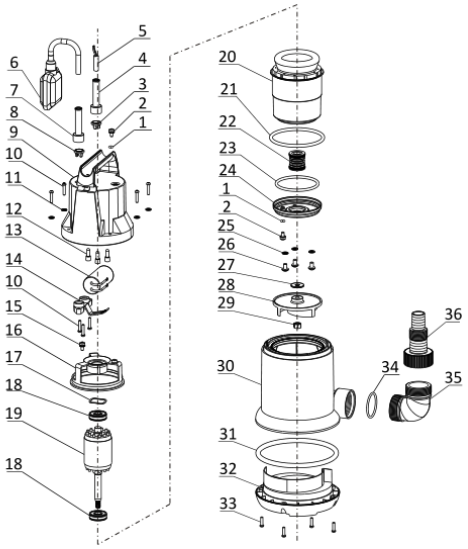
Any repair to the motor, seal or cable must be carried out by a qualified technician.

9. Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power / tripped RCD	Check the socket, plug and RCD; reset if tripped.
Pump does not start	Float switch stuck in low position	Free the float; ensure it can move.
Motor hums but does not run	Impeller blocked by debris	Disconnect power; clear the impeller.
Motor stops after a while	Thermal protector tripped (overheat)	Disconnect and let it cool; check for dry running.
Low or no flow	Discharge hose kinked or too long	Straighten/shorten the hose; check total head.
Low or no flow	Intake blocked	Clean the intake base.
Pump runs but level does not drop	Head exceeds pump capacity (>6 m)	Use a pump with higher head.
Pump does not stop	Float fixed or obstructed	Free the float switch.
Air-locked / not priming	Air trapped in the body	Tilt the pump briefly to release air.
Water leaks at seal	Worn mechanical seal	Have the mechanical seal replaced by a technician.
Excessive vibration/noise	Cavitation or worn bearing	Ensure full submersion; service the pump.

10. Spare Parts

Exploded view of the main components. When ordering spare parts, quote the Oxygon code 106.07.306 and the part number from the diagram.



NO.	Name
1	O-ring
2	Cross recessed pan head screw and washer assemblies
3	Cable clamp
4	Cable head
5	Cable
6	Float switch
7	Cable head
8	Cable clamp
9	Upper cover
10	Cross recessed pan head tapping screws
11	Washer
12	Terminal
13	Capacitor
14	Capacitor clip
15	Cross recessed pan head screw and washer assemblies
16	Back cover
17	Three wave
18	Bearing

NO.	Name
19	Rotor assembling
20	Frame assembly
21	O-ring
22	Mechanical Seal
23	O-ring
24	Gland
25	Washer
26	Cross recessed pan head screw and washer assemblies
27	Washer
28	Impller
29	Hexagon lock nut
30	Pump Casing
31	O-ring
32	Pump Cover
33	Cross recessed pan head tapping screws
34	O-ring
35	Outlet elbow
36	Water outlet

TRITON 250 — exploded view

> Use only original Oxygon spare parts. Non-original parts may impair safety and void the warranty.

11. Warranty & Contact

The TRITON 250 carries a manufacturer warranty against defects in materials and workmanship under normal use, in accordance with Oxygon'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 *EUROCERT*	**14001:2015** Environmental Management *BQV*	**45001:2018** Health & Safety *BQV*
22301:2019 Business Continuity *EUROCERT*	**46001:2019** Water Efficiency *BQV*	

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