OXYGON

SWIMMING POOL · WATER TREATMENT · HEATING · COOLING



TRITON B-Series

Submersible Sewage Pumps (B400 / B900)

Installation, Operation & Maintenance Manual

Oxygon Codes: 106.07.309 (B400 / OX400B3) · 106.07.310 (B900 / OX900B3)

Scan for more

www.oxygon.gr

OXYGON — Karamaouna St., N. Rysio, 57001 Thessaloniki, Greece
Tel: +30 2310 810 000 | info@oxygon.gr | www.oxygon.gr

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 9

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.

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) rated ≤ 30 mA.

GROUNDING REQUIRED

The pump must be connected to a properly earthed supply. 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. After pumping sewage, wash your hands and disinfect any tools that contacted the water.

INTENDED USE

The TRITON B-Series is intended for pumping sewage and dirty water containing soft solids up to 30 mm — waste-water drainage, flooded pits and cellars, septic/effluent transfer, landscape ponds, fisheries and general drainage. It must NOT be used for flammable or corrosive liquids, 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 (EMC). 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 Oxygon Service Department immediately.

- TRITON B-Series submersible sewage pump with attached float switch
- Hose connector (G1½” / 40 mm for B400 and B900)
- 10 m power cable with plug (fitted)
- Installation & operation manual (this document)
- Oxygon warranty certificate

3. Product Overview

The TRITON B-Series are heavy-duty plastic submersible pumps for sewage and dirty water. The open impeller passes soft solids up to 30 mm, so the pump handles waste water that would block a clean-water pump. The fully submersible IP68 motor runs continuously underwater, is protected by a double shaft seal, and an attached float switch starts and stops the pump automatically with the water level.



TRITON B-Series submersible sewage pump

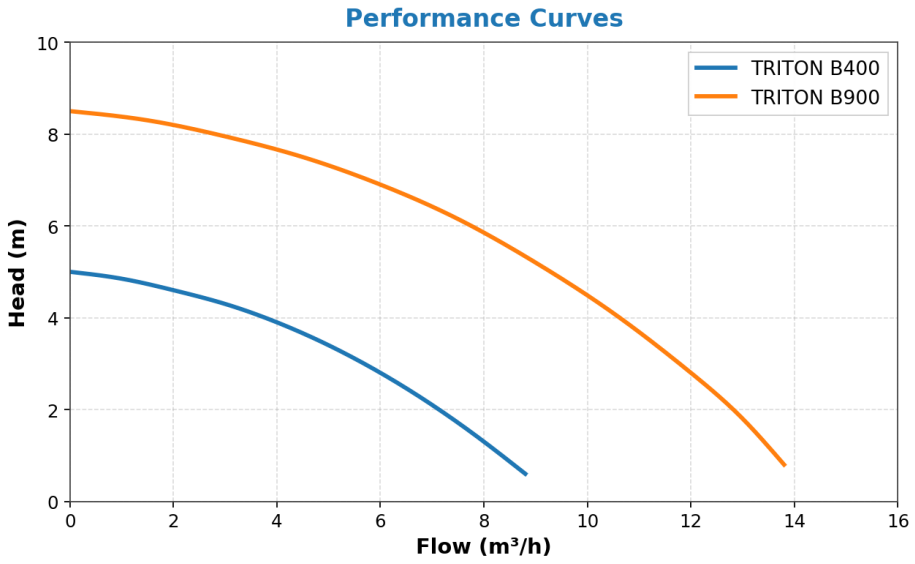
Key Features

- Open impeller — passes soft solids up to 30 mm
- Fully submersible motor, protection class IP68
- Double shaft seal for long service life in dirty water
- Pure-copper motor winding, high-temperature bearing
- Single-phase motor with built-in USA (TI) thermal protector
- Automatic float switch (on/off with water level)
- 10 m power cable as standard
- Insulation class F — resistant to high temperature

4. Technical Specifications

Parameter	TRITON B400	TRITON B900
Oxygon Code	106.07.309	106.07.310
Factory Model	Q400B3	Q900B3
Input Power (P1)	330 W	650 W
Output Power (P2)	150 W	400 W
Voltage / Frequency	220–240 V / 50 Hz	220–240 V / 50 Hz
Rated Current	1.5 A	3.0 A
Max. Flow (Qmax)	9 m³/h (150 l/min)	14 m³/h (233 l/min)
Max. Head (Hmax)	5 m	8.5 m
Rated Duty Point	4 m³/h @ 3.5 m	8 m³/h @ 6 m
Max. Solids Passage	≤ 30 mm	≤ 30 mm
Discharge Outlet	G1½” (40 mm)	G1½” (40 mm)
Protection / Insulation	IP68 / F	IP68 / F
Power Cable	10 m	10 m
Max. Submersion Depth	5 m	5 m
Float Switch Start Level	415 mm	420 mm
Float Switch Stop Level	170 mm	215 mm
Medium Temperature	0 – 35 °C	0 – 35 °C
Net Weight	4.8 kg	5.7 kg

Performance Curves

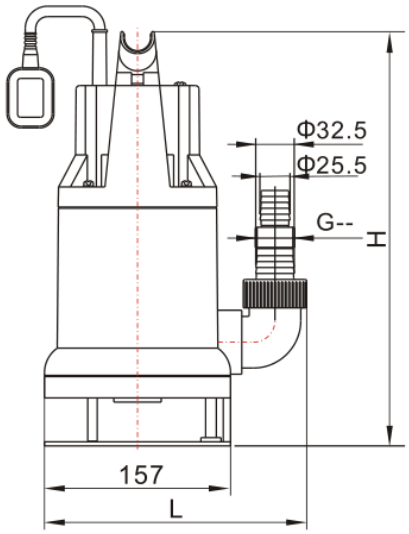


TRITON B400 & B900 — flow vs. head (2860 r/min)

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 base at the lowest point of the area to be drained, so the intake is not buried in sludge. Connect a hose to the discharge outlet using the supplied connector. For permanent sewage installations, fit a check valve and a quick-coupling on the discharge line. Keep the pump fully submerged during operation and never exceed the 5 m maximum submersion depth.



Overall dimensions (mm)

- Lower the pump by the handle — never by the power cable.
- Stand the pump on bricks or a base plate in muddy pits to keep the intake clear.
- Allow the float switch enough clearance to move freely.
- For fixed installations, fit a check valve on the discharge line.

6. Electrical Connection

The pump is supplied with a 10 m cable and plug for 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. Give the float enough clearance to move freely. In tanks with heavy solids, check the float regularly so that rags or debris do not jam it in the raised or lowered position.

8. Maintenance

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

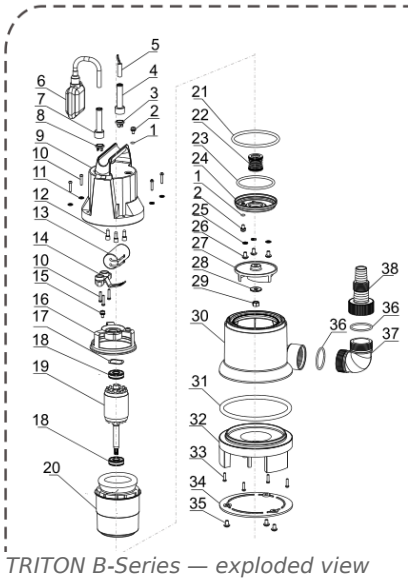
- Flush the pump with clean water after pumping sewage or muddy water.
- Check that the impeller turns freely and is clear of rags, fibres or hard debris.
- Inspect the power cable and float cable for damage before each use.
- For winter storage, clean and drain the pump and keep it in a dry, frost-free 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 jammed by solids > 30 mm or rags	Disconnect power; clear the impeller and intake.
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 or impeller clogged with debris	Disconnect power; clean the intake and impeller.
Pump runs but level does not drop	Head exceeds pump capacity	Use a pump with higher head (B900).
Pump does not stop	Float fixed or obstructed	Free the float switch.
Air-locked / not pumping	Air trapped in the body	Tilt the pump briefly to release air.
Water leaks at seal	Worn mechanical seal	Have the double shaft 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 (106.07.309 for B400, 106.07.310 for B900) and the part number from the diagram.



TRITON B-Series — exploded view

No.	Part	No.	Part
1	O-ring	20	Frame assembly
2	Screw	21	O-ring
3	Cable clamp	22	Mechanical seal
4	Cable head	23	O-ring
5	Cable	24	Gland
6	Float switch	25	Washer
7	Cable head	26	Screw
8	Cable clamp	27	Impeller
9	Upper cover	28	Washer
10	Screw	29	Hexagon lock nut
11	Washer	30	Pump casing
12	Terminal	31	O-ring
13	Capacitor	32	Pump cover
14	Capacitor clip	33	Screw
15	Screw	34	Base
16	Back cover	35	Screw
17	Three wave	36	O-ring
18	Bearing	37	Outlet elbow
19	Rotor assembling	38	Tie-in

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

11. Warranty & Contact

The TRITON B-Series 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

Company	OXYGON — Karavasilis Stergios & Sia EE
Headquarters	Karamaouna St., N. Rysio, 57001, Thessaloniki, Greece
Phone	+30 2310 810 000
Service	+30 2312 208 240
Email	info@oxygon.gr
Website	www.oxygon.gr
Romania subsidiary	OXYGON SRL — Str. Constelatiei 1 Bis, Voluntari, 077191, Bucharest
Romania Phone	+40 753 380 848
Romania Email	info@oxygon.ro

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.