

### TECHNICAL DESCRIPTION

The micro-stations BIOXYMOP are designed according to the process of aerobic immersed fixed culture. They allow to treat domestic wastewater from individual dwellings.

Designed to be simple and easy to install, this system ensures the most effective treatment.

### OPERATION

The micro-stations are composed of 3 compartments:

- Primary decanter of 3 m<sup>3</sup>
- Aeration basin
- Clarifier

Domestic wastewater comes into the primary decanter, this pre-treatment allows to retain the largest particles at the bottom and floating particles on the surface.

The pre-treated effluent then passes through the aeration basin where dissolved pollutants are eliminated by purifying bacteria fixed on the free supports.

The last stage of treatment occurs in the clarifier.

The treated effluent is separated from suspended solids.

The AIRLIFT system allows the recirculation of the effluents to the primary settling tank.

The treated effluent meets the requirements of standard EN 12566-3 and modified decree of 7/09/09.

Discharge of treated wastewater can be done in two ways:

- by drainage and infiltration into the soil.
- by discharge into the superficial hydraulic medium, subject to compliance with the applicable technical requirements.

### MAINTENANCE

All maintenance instructions appear in the user's guide.

A maintenance contract must be signed with a specialist authorized by SIMOP as soon as it is put into service.

**GUARANTEE OF RESULTS, OPERATION AND ELECTROMECHANICAL PARTS MAY BE ACQUIRED ONLY UNDER THIS CONDITION.**



### ADVANTAGES

- Very low energy consumption
- Very low footprint
- Shallow depth
- Plug & Play system
- Emptying every 36 months
- Reduced maintenance cost
- Installation in green spaces or under roadways
- Installation with water table
- Gravity system
- Monobloc
- Good tolerance to load variations
- Odourless

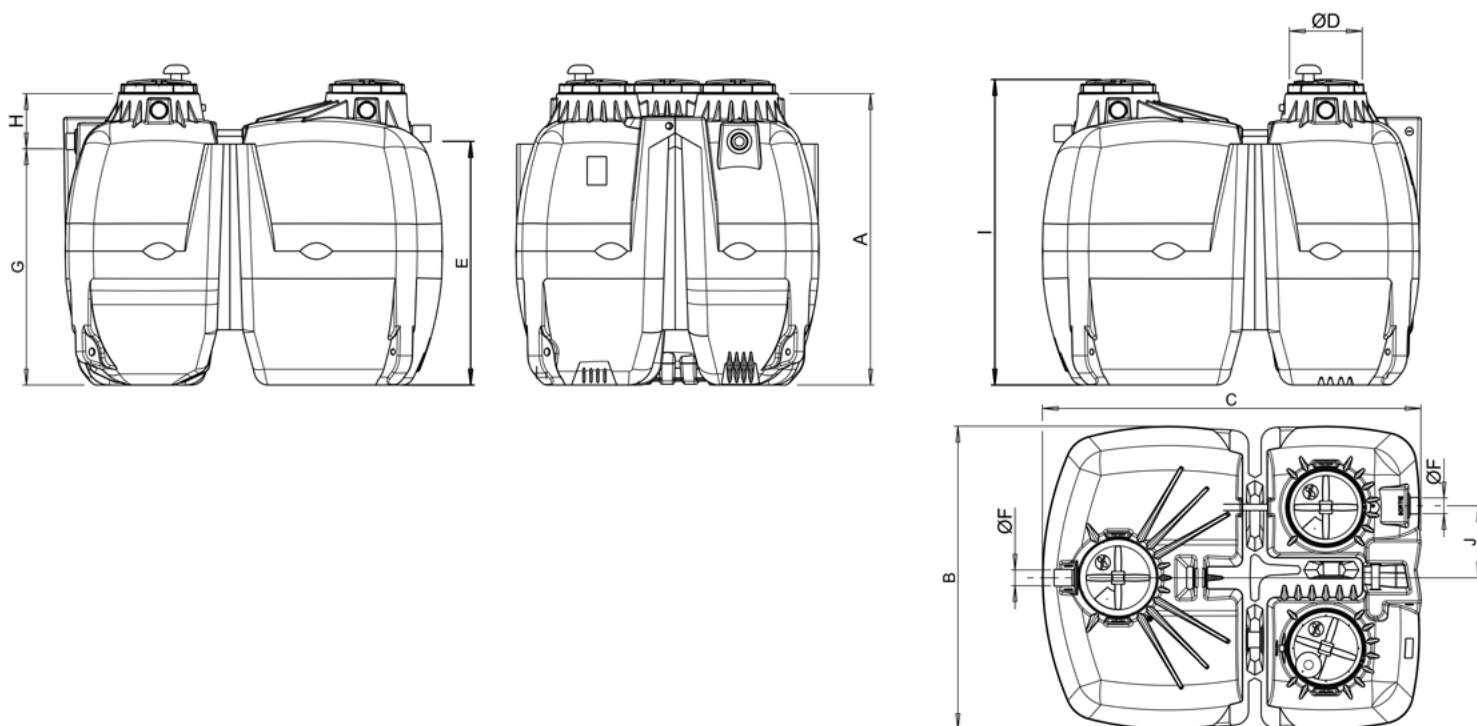
### GUARANTEES

Simop guarantees that micro-stations of the range bioxymop allow to treat domestic wastewater in accordance with the regulatory requirements in force at the time of their installation. These performances are guaranteed under normal conditions of use, care and maintenance in accordance with the instructions of the user's manual.

The tank is guaranteed 10 years, if the installation conditions have been respected.

Electromechanical parts are guaranteed 1 year under normal conditions of use.

The warranty period starts on the day of the micro-station installation to the user.



| Reference       | dimensions in mm |      |      |     |              |     |               |     |      | Useful volume | Weight |
|-----------------|------------------|------|------|-----|--------------|-----|---------------|-----|------|---------------|--------|
|                 | A                | B    | C    | ØD  | E<br>(inlet) | ØF  | G<br>(outlet) | H   | I    |               |        |
| BIOXYMOP6027/06 | 1850             | 1912 | 2405 | 400 | 1550         | 100 | 1500          | 350 | 1940 | 5060 litres   | 370 kg |

## ● OPTIONS

- RH2/4031 Screwed extension shaft of 300 mm cleavable every 50 mm
- KITMD/6027 Kit for remote mounting of the compressor
- REL4/6025 External box for compressor
- AE6027 Visual and sound alarm for compressor

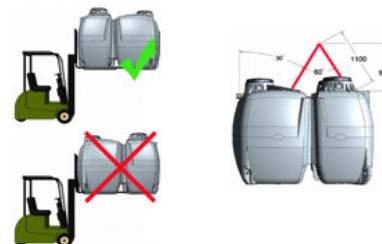


## MANUTENTION, INSTALLATION ET MISE EN SERVICE :

Refer to the user's manuel BIOXYMOP6027/06 section «installation and handling guide» or to our installation sheet PHPE.

The maximum backfill without reinforced concrete slab is 600 mm.  
Maximum level of the water table = 1,5 m from the bottom of the tank.  
Filling the tank with the aeration basin.

The tank has forklift pockets for lift trucks to easy handling. The use of fork extensions is highly recommended for safe handling. Lifting can also be achieved by lifting straps using the lifting rings provided for this purpose.



## HYDRAULIC CONNECTION:

The inlet and outlet of the micro-station are identified by inscription (see photos).  
The micro-station has the inlet/outlet sleeves of ND100 and is ready to be connected with PVC pipe of ND100.  
The effluent inlet and outlet pipes must have a minimum slope of 2% (attention: take into account the settlement of the ground). No 90° bend should be present 1 m before inlet and after outlet of the micro-station.

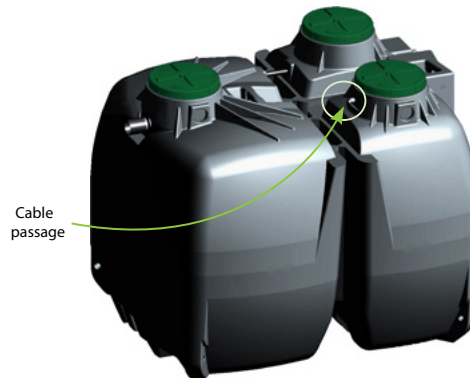


## ELECTRICAL CONNECTION :

During earthworks, put in place a sheath with a minimum diameter of 60 mm between the micro-station and the general electrical panel.  
Pull the necessary cable to supply the compressor with the appropriate cable sections: (compressor supplied with 1 m of cable)

|  |     |
|--|-----|
| Cable section (mm <sup>2</sup> )             | 1.5 |
| Max. distance compressor / micro-station (m) | 20  |

Before any work on the electrical equipment, switch off the system. The connection can be made on a socket with the differential protection of 30 mA. Live connection to a differential circuit breaker is not mandatory but recommended.



## VENTILATION AND AIR INTAKE :

The connection of the micro-station ventilation must comply with the XP DTU 64.1.  
The opposite illustration shows the connection for the primary and secondary ventilation on the micro-station.

The air inlet is ensured by the pipe of fall of the wastewater in the primary ventilation in its diameter (100 mm minimum) until the free air and above the inhabited premises. Fermentation gases must be evacuated by a ventilation system equipped with a static and wind extractor located 0.40 m above the ridge and at least 1 m from any openings and any other ventilation.

