

# BIOX™ Mobile - Oxygen Apparatus for Water Treatment.

Flexible and simple solution for capacity increase in small- to medium-sized industrial wastewater treatment plants.



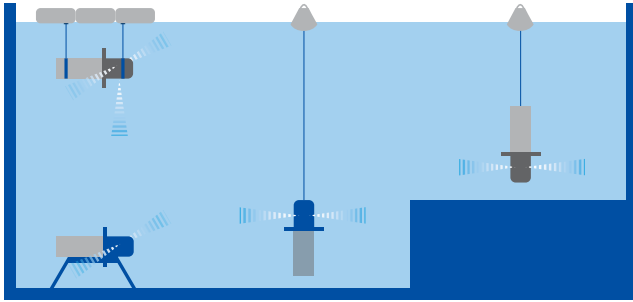
## **Boosting your plant capacity**

Messer's BIOX™ water treatment product line has been developed to meet aeration and mixing needs in wastewater treatment plants. The "BIOX mobile" is a flexible solution suitable for all industrial wastewater treatment plants using aeration processes. It can be used to bridge seasonal and production peaks or as a backup solution during maintenance. Its modular concept allows for flexible capacity management and it can be easily stored and installed again when needed. A single unit can oxygenate and mix approximately 150 to 180 m<sup>3</sup> [39,000 to 48,000 US gallons] of wastewater aeration basin volume.

## **Benefits at a glance**

- Portable, lightweight submerged jet dissolver, can be installed without a crane
- Flexible installation to fit any shape of basin: floating or fixed, horizontal or vertical
- Wet installation: no need to drain the tank or halt operation
- Low maintenance and operation costs
- Allows for rapid response to temporary peak loads and maintenance of main equipment

## Installation



Flexible installation. Submerged venturi mixer for better mixing power and improved dissolved oxygen distribution. Nozzles can be blocked to enable horizontal mounting.

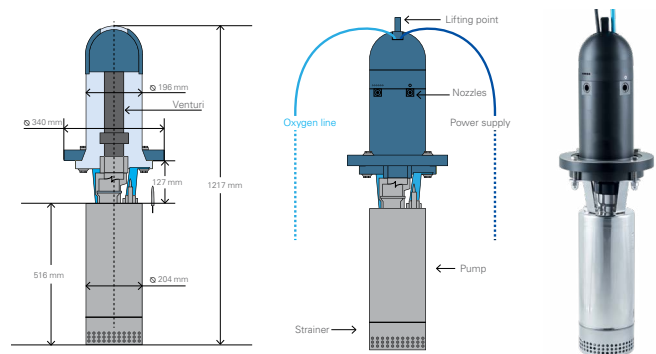
## Who can benefit from BIOX mobile

- Ideal for small- and medium-sized industrial plants, both with temporary and semi-permanent aeration needs
- Operators who face variable loading or seasonal demand
- Plants with moderate mixing demand that need additional mixing
- Basins with water depth ranging from 3 m to 15 m (10 to 49 ft)

## Technical characteristics

BIOX mobile	Metric system	Imperial system
Capacity O <sub>2</sub> /h	10 to 25 kg	22 to 55 lbs
Power rating P1	7,5 kW	10 hp
Power supply	380-400 V / 50 Hz (EU version)	480 V / 60 Hz (US version)
Weight	57 kg	126 lbs
Cable	20 m	65 ft
Head	0,5 bar	7.25 psi
Total height	1217 mm	3.992 ft
Pump type (IP68)	Centrifugal – radial	Centrifugal – radial
Water temperature max.	45 °C	113 °F
Pump flow	74 m <sup>3</sup> /h	19548 gal/h
Minimum immersion	3 m	10 ft
Max. immersion	15 m	49 ft
Solids diameter	<10 mm	<0.39 in

## External features and dimensions



- Four jet nozzles for effective mixing
- High-density polyethylene body (HDPE)
- Patented BIOX water treatment low-pressure-drop Venturi
- Stainless steel pump body
- Low noise level
- No aerosol, noise or foam

**MESSER**   
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