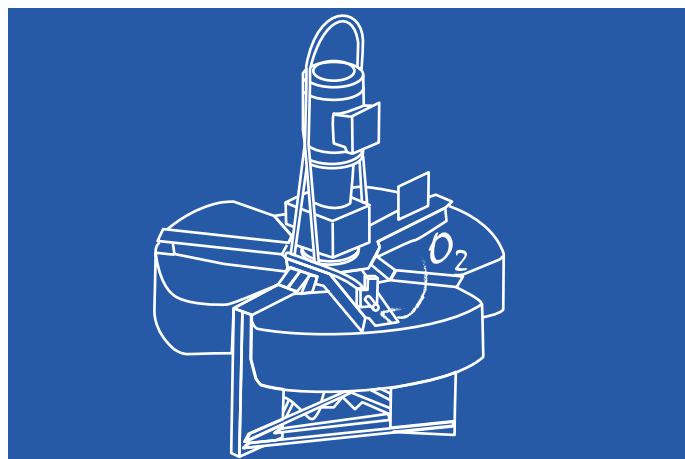


OXY INJECTOR-TURBOXAL

- Well-suited for varying pollution levels
- High oxygen transfer rate
- Very easy installation
- Distinctly low maintenance



The Concept

A powerful and compact floating oxygen-transfer system, the **OXY INJECTOR-TURBOXAL** delivers high-performance oxygenation of wastewater in biological basins and lagoons.

Through Air Liquide's patented system, wastewater and oxygen are thoroughly mixed by a specific turbine in the biomass. The effluent is then dispersed downwards via a powerful impeller, ensuring efficient oxygen transfer to the wastewater.

The **OXY INJECTOR-TURBOXAL** is suitable for treating varying pollution levels without shear stress that could impair the biomass efficiency. For the denitrification step, **OXY INJECTOR-TURBOXAL** is able to mix the basin without gas injection.

Applicable Industries

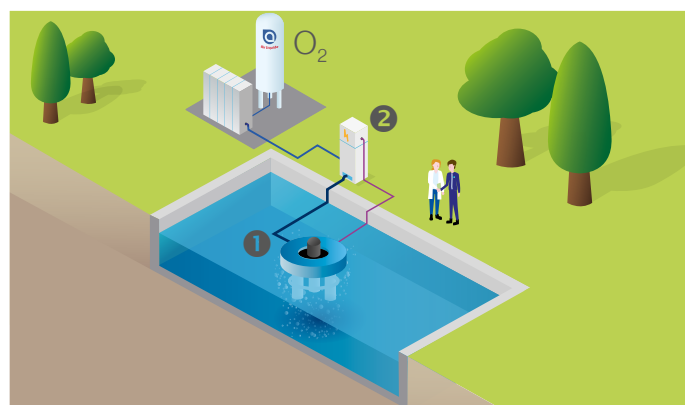
The **OXY INJECTOR-TURBOXAL** is used to implement biological treatments to efficiently remove organic and/or inorganic pollution from municipal or industrial wastewater across varied sectors such as:

- Food and Beverage
- Chemical and Pharmaceutical Processing
- Petroleum Refining
- Fish Farming
- Pulp and Paper
- And various others

Special Features

The **OXY INJECTOR-TURBOXAL** (❶) is composed of a distinctive turbine, an impeller and a motor-reducer. A **GAS CONTROL CABINET** (❷) is installed close to the basin and connected to the gas injection unit.

An Air Liquide expert defines the optimal location of the **OXY INJECTOR-TURBOXAL** at the surface of the basin or lagoon.



One version of the **OXY INJECTOR-TURBOXAL** system is able to suck air or off-gas from an ozone reactor at low pressure.

A single piece of equipment can inject up to 100 kg/h oxygen per device. Multiple **OXY INJECTOR-TURBOXAL** systems can be easily combined to meet the need for dissolved oxygen.

The quantities of oxygen transferred can be optimized by Air Liquide experts with a control system based on dissolved oxygen or redox potential monitoring.

Like the **OXY INJECTOR-VENTOXAL**, our **OXY INJECTOR-TURBOXAL** technology includes electrical control and gas dosing. The **GAS CONTROL CABINET** features safety and emergency functions. The control philosophy can be configured for stand-alone solutions or as an integrated solution in the customer process control system. All registered parameters, like power consumption or oxygen flow are indicated on site and can be sent via all common data transfer modes to the master display of the operator.

Model Range

Choose the **OXY INJECTOR-TURBOXAL** model best adapted to your needs:

OXY INJECTOR-TURBOXAL 200:
gas-pressure inlet down to atmosphere pressure

OXY INJECTOR-TURBOXAL 300:
gas-pressure inlet only

Technical Data

The **OXY INJECTOR-TURBOXAL** is designed to comply with multiple standards.

Specifications	OXY INJECTOR-TURBOXAL 200	OXY INJECTOR-TURBOXAL 300
Size		
Height (m)	2.575 with sling support	2.560 with sling support
Diameter (m)	2.460	2.150
Weight (kg)	1100	800
Materials		
Frame	304l or 316l	
Floats	Polyester body with polyurethane (not submersible)	
Power		
Consumption	22kW	16kW
Electrical supply	400V – 50Hz (EU version)	

Related Offer

The **OXY INJECTOR-TURBOXAL** is a part of our **Nexelia for Biological Treatment** and **Nexelia for Tertiary Treatment** solutions, which are designed and tailored to meet your specific needs. These comprehensive offers combine the best of our gas-application technologies and expert support. As with all solutions under the **Nexelia** label, we work closely with you to pre-define a concrete set of results, and we commit to delivering them.

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