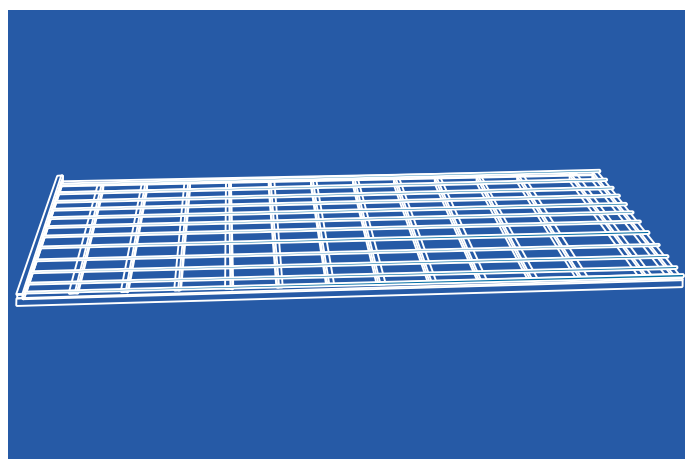


INJECTOR-POROXYAL

- Cost effective
- No need for electrical power for gas injection
- Suitable for deep basins
- Easy installation
- Low maintenance



The Concept

A cost-effective system designed by Air Liquide, the **INJECTOR-POROXYAL** treats wastewater by injecting oxygen (O_2) into deep static biological basins (>5m). It's also well suited to dissolve CO_2 for pH control.

If carbon dioxide (CO_2) has to be dissolved in a wastewater flow, then the **INJECTOR-BICONE** is the appropriate equipment.

Based on the dissolved oxygen amount, a control cabinet regulates the oxygen flow until the dissolved oxygen (DO) set point is reached. This prevents oxygen deficit in biological basins and/or overdosing.

There's no need to empty basins for installation or maintenance.

Applicable Industries

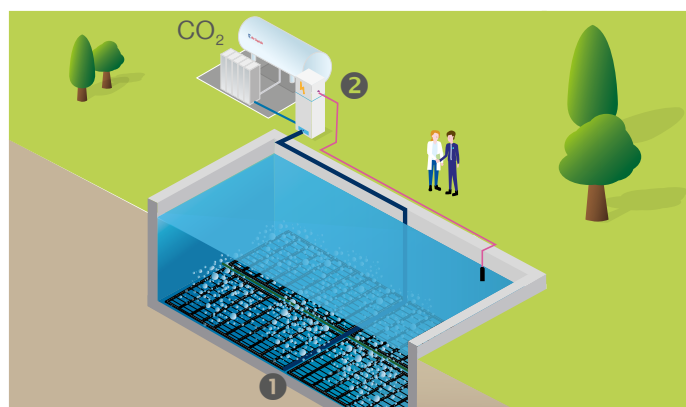
The **INJECTOR-POROXYAL** is used to implement biological treatments to remove organic and inorganic (e.g. sulphur) pollution from municipal or industrial wastewater and is suited to multiple sectors, such as:

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

Special Features

A ground injection system, the **INJECTOR-POROXYAL (1)** is immersed at the bottom of a basin, and includes :

- Stainless steel frame
- Porous hoses made of (specific) EPDM rubber with 6 holes every 5 mm (around 1200 holes per meter)



Additionally, it works without electricity for gas injection or any other power source unless an impeller is added to enhance the medium circulation.

A **GAS CONTROL CABINET (2)** is installed close to the basin and connected to the gas injection unit.

Model Range

Choose the INJECTOR-POROXAL model best adapted to your needs:

INJECTOR-POROXAL 30*

INJECTOR-POROXAL 60*

INJECTOR-POROXAL 90*

(*) Numbers correspond to the hose length (in m)

Technical Data

Type	Typical dimensions (L x W x H) m	Hose length (m)	Weight (kg)	Water flow (m ³ /h)	Oxygen (kg/h)
INJECTOR-POROXAL 30	3 x 2 x 0.15 6 x 1 x 0.15	30	70	100	10-15
INJECTOR-POROXAL 60	6 x 2 x 0.15	60	120	200	15-25
INJECTOR-POROXAL 90	26 x 2 x 0.15	90	19	130	15-35

Dimensions can be adjusted to different basin sizes.

Related Offer

The **INJECTOR-POROXAL** is a part of our **Nexelia for Biological Treatment** and **Nexelia for pH Control** 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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