

Turboxal™



The oxygen surface transfer device for wastewater treatment

TURBOXAL

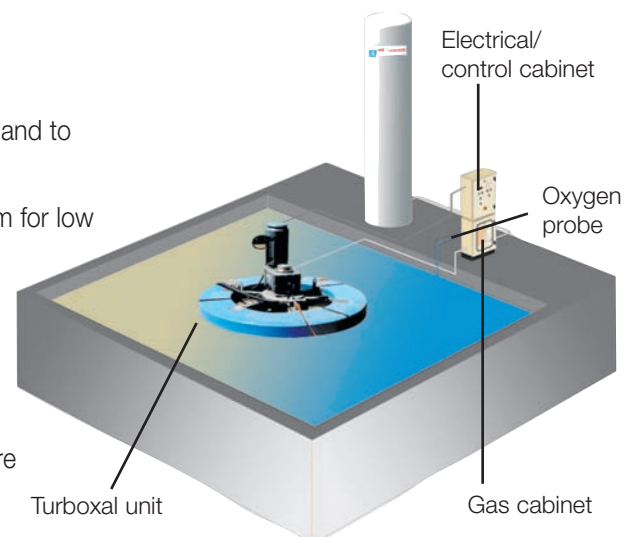
DESIGNED TO FLOAT AT THE SURFACE OF YOUR BASIN OR LAGOON, THIS DEVICE IS A COMPACT OXYGEN TRANSFER SYSTEM. EFFLUENT AND OXYGEN ARE MIXED IN A SELF-ASPIRATING TURBINE. THE MIXED STREAM IS DIRECTED DOWNWARD BY MEANS OF A POWERFUL IMPELLER, ENSURING AN EXCELLENT TRANSFER OF OXYGEN TO THE MIXED LIQUOR.

FEATURES

- Very easy to install
- Particularly well adapted to low-depth basins or lagoons (2 to 4.5 m) and to basins where additional submerged systems cannot be installed.
- High transfer efficiency: 1.5 times higher than a venturi-injector system for low water depth.
- The float not only maintains the turbine at the surface, but also prevents solid particles from entering into the moving parts of the turbine.

SAFETY CONDITIONS

An emergency stop as well as clogging and overheating detectors are standard features on this device.





TURBOXAL TECHNICAL DATA

	Overall dimension (mm)	Weight (kg)	Power (kW)	Oxygen (kg/h)
Height	2,200	1,120	15 to 17	20 to 80
Diameter	2,350			



AIR LIQUIDE OFFERS:

- High oxygen transfer with low energy requirement
- Large mixing capacity: up to 14,000 m³/hr
- Technical assistance from dedicated environmental specialists
- Process control to optimize oxygen consumption
- Data recording and telemetry
- Optimized implementation through computer modeling

BENEFITS:

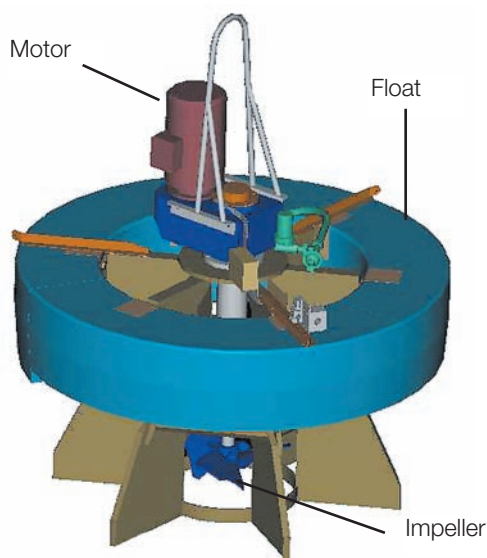
- Increased biological treatment capacity (peak shaving or permanent)
- Reduced footprint of new biological plant
- Stabilized aerobic sludge
- Odor abatement

YOUR ACTIVITIES:

- Dairy food and beverage
- Chemical processing
- Petroleum refining
- Pulp and paper mills
- Municipalities
- And many others

TURBOXAL IS DESIGNED TO BE FED BY A LOW-PRESSURE GAS

If the process requires ozone, it allows you to reuse oxygen-rich off-gas instead of venting it. Low-pressure oxygen saves energy whenever oxygen is produced on-site by a Compact VSA™. Dual mode: when treating low load effluent, save oxygen by switching to the "air-feed" mode.



AIR LIQUIDE CANADA INC., 1250 RENÉ-LÉVESQUE BLVD. WEST, SUITE 1700, MONTREAL, QUEBEC H3B 5E6 (514) 933-0303

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