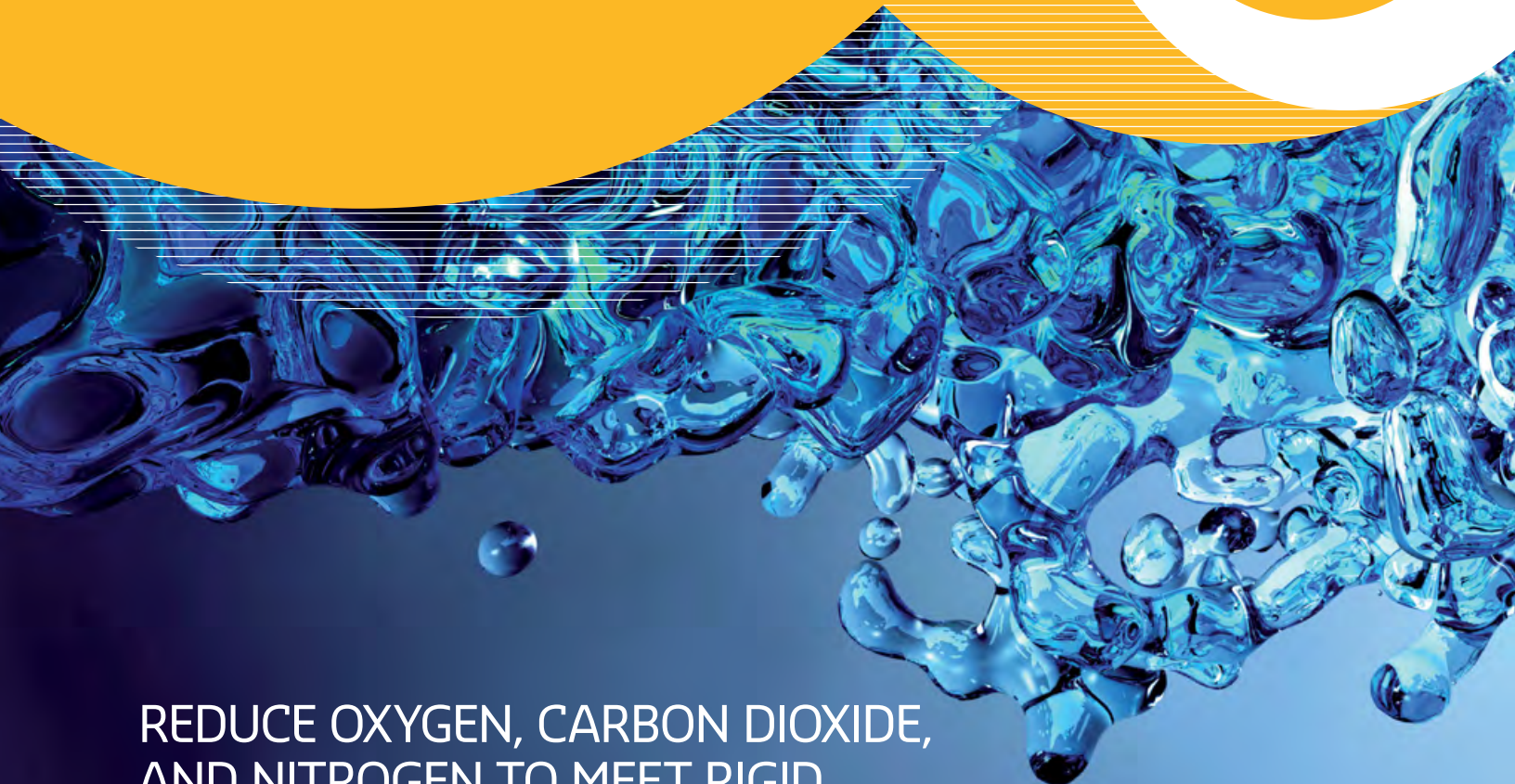


VACUUM DEGASSERS



**INDUSTRIAL
PROCESS
WATER**



REDUCE OXYGEN, CARBON DIOXIDE,
AND NITROGEN TO MEET RIGID
EFFLUENT REQUIREMENTS FOR ANY APPLICATION

+ DESIGN

Custom build and modular units

+ EFFICIENCY

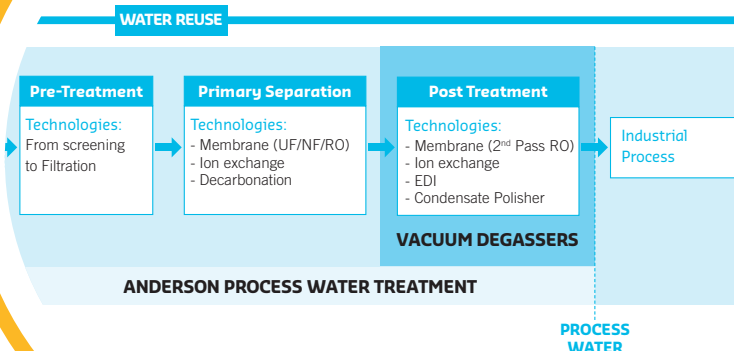
High degassing efficiency for the
most demanding applications



AN EFFICIENT AND EFFECTIVE METHOD OF REMOVING O₂, CO₂ AND N₂ FROM WATER

VACUUM DEGASSERS

INDUSTRIAL PROCESS WATER



VACUUM DEGASSER TECHNOLOGY

Vacuum Degasification is utilized to remove O₂, CO₂ and N₂ and is capable of producing water with part-per-billion levels of these dissolved gasses. This type of equipment is part of the final polishing stage of a water treatment process to produce ultra high-purity water. Our vacuum degasser systems are custom designed to reduce oxygen, carbon dioxide, and nitrogen to meet the rigid effluent requirements of any application.

HOW IT WORKS

A vacuum is pulled on a stream of water, and the vacuum draws the dissolved gas out of solution, removing it from water. There are two basic systems available – tower and membrane. In a vacuum degasser tower, water flows by gravity down through a tower filled with packing as a vacuum is drawn on the tower. The packing in the tower has a very high surface area, disperses the water very effectively, thereby enhancing the removal of O₂, CO₂ and N₂. Performance is further enhanced by using atomizing nozzles as the water enters the tower. In a membrane degasser, water flows across one side of a membrane surface while a vacuum is drawn on the other side. Both types of systems use steam jet eductors or liquid ring pumps to generate the vacuum required.

Our units are custom manufactured to specific client requirements. All systems capacities can be achieved through modular design. Utilizing these building blocks flow rates from 200 gpm to 10,000 gpm are easily constructed to fit into all variations of foot prints specified by our clients.



ADVANTAGES

- + **High degassing efficiency for the most demanding applications**
- + **Compact footprint**
- + **Minimal internal volume**
- + **Single-stage or multi-stage towers.**
- + **Evacuation systems: from single stage steam jet ejectors to multi-stage liquid ring pumps.**
- + **Complex Process Development Capability**
- + **Materials**
 - From carbon steel to specialty alloy
 - Blasted, primed, finished coated with two-part epoxy
- + **Remote controls and alarms**
 - Intrinsic Alarms for: High and Low Pressure, Temperature, Pressure Drop Feed, Conductivity. Control System could include PLC systems for both local and remote and could include linkage to SCADA control center.

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