

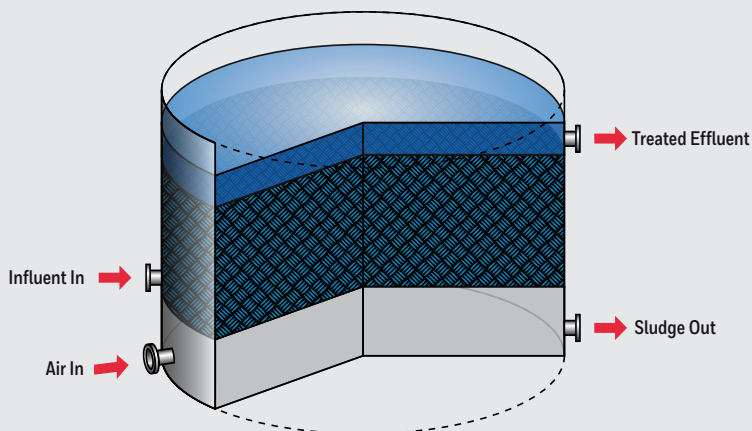
XCeed™ Advanced Biological Reactor

Cost-efficient wastewater treatment for craft breweries

Featuring a small footprint that easily integrates into craft brewery infrastructure, the XCeed™ Bioreactor for Brewery Wastewater provides reliable, cost-effective removal of wastewater contaminants, dramatically reducing water treatment surcharges.

High Efficiency in a Compact Design

Based on immobilized cell bioreactor technology, the Honeywell XCeed™ bioreactor system's modular design incorporates packed bed mixed-media support for immobilized bio-catalysts. The unique design provides high removal rates of organic and inorganic contaminants, and the flexible process configuration allows for a small system footprint.



KEY FEATURES

- **PLUG FLOW** characteristics – Yields a high organic removal efficiency, reduced aeration, lower horsepower and lower energy costs
- **LOW HYDRAULIC RESIDENCE TIME** – Allows for a smaller reactor for easier system integration
- **STABLE MICROBIAL POPULATION** – Resistant to upstream process changes
- **INCREASED MICROBIAL SLUDGE RETENTION TIME** – Generates 70% to 80% less sludge

10K Gallon FRP Bioreactor Tank Specs

OPERATING & DESIGN INFORMATION (STANDARD 10K TANK IS FIBERGLASS REINFORCED PLASTIC, FRP)

TEMPERATURE RANGE	65 – 110 °F 18 – 43 °C
BIOLOGICAL PH RANGE	6.5 – 8.5
CHEMICAL RESISTANCE PH	2 – 12
NUTRIENT QUALITY	Preferred C:N:P ratio 100:10:1
REQUIRED PRETREATMENT	TSS <100, FOG <100 mg/L
HRT (TYPICAL) *	24 hours
WEIGHTS & DIMENSIONS	
HEIGHT	13 ft 3.96 m
DIAMETER	12 ft 3.66 m (I.D.)

For more information

For more information, please contact your Honeywell representative or visit uop.com/brewery.

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