

# SILO"

**SIMPLIFYING SEWAGE TREATMENT**WASTEWATER MANAGEMENT MADE SIMPLE

H2O Innovation's SILO membrane bioreactor system redefines satellite wastewater treatment. The simplicity in design allows reliable operation without complicated programming and extraneous mechanical and electrical controls. With *only six moving parts* and a simplified electrical design, it provides the superior effluent quality of a membrane system without the complexity.



IT'S SIMPLE LIKE A CLARIFIER
WITH EFFLUENT LIKE A MEMBRANE





WASTEWATER FEED

FINE SCREENING ACTIVATED SLUDGE MEMBRANE FILTRATION ⇒ ( TREATED EFFLUENT

### WASTEWATER FEED

#### FINE SCREENS

Automated fine screens with 2mm openings protect the system from debris

#### **ANOXIC ZONE**

Chemical consumption is limited, and TN reduced, through denitrification in the anoxic zone

#### **AEROBIC ZONE**

The high concentration bioreactor reduces plant footprint and provides a high solids retention time, to produce extremely low effluent BOD & allow complete nitrification



#### **EQUIPMENT SKID**

Blowers and instruments are installed at the top of the system for compact footprint and true plug-and-play installation.

### MEMBRANE FILTRATION

Bacteria are retained in the system using membrane filters with microscopic pores. An abundant supply of membrane area allows passive filtration without the use of pumps or complicated cleaning regimes to provide simple, worry-free treatment

## **EQUIPMENT ENCLOSURE**

Items requiring frequent access are installed in the patented equipment enclosure at ground level.

TREATED EFFLUENT

CAPACITY	20 - 100 m³/d 5,000 - 25,000 GPD
BOD	< 5 mg/L
TSS	< 5 mg/L
NH <sub>3</sub>	< 0.5 mg/L
TN	< 10 mg/L



Note: The effluent concentrations listed assume typical domestic wastewater

SIMPLE · INDEPENDENT · LEVEL-BASED · OPERATION