

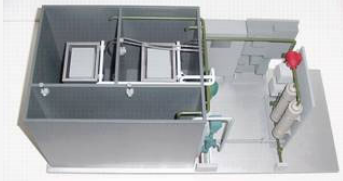


# Pre-engineered, Prefabricated Wastewater Treatment Package Plants

	PREFABRICATED STRUCTURE UNITS (B-Series)	CONTAINER UNITS (C-Series)	PALLET UNITS (P-Series)
<b>TYPICAL ILLUSTRATION</b>			
<b>DESCRIPTION</b>	Self-contained, modular wastewater treatment system housed in a concrete structure producing high quality, reusable effluent	Self-contained, relocatable wastewater treatment system producing high quality, reusable effluent	Fully integrated, transportable wastewater treatment system with palletized components, producing high quality, reusable effluent
<b>APPLICATIONS</b>	5,000 - 30,000 GPD	5,000 - 30,000 GPD	5,000 - 50,000 GPD
<b>FEATURES</b>	Automatic, fully integrated treatment equipment, with power and liquid interfaces, delivered in a durable modular structure	Automatic, fully integrated treatment equipment, with power and liquid interfaces, housed in a durable, insulated, weather-tight, ISO container	Automatic, fully integrated treatment equipment, arranged on pallets with electric and plumbing inter-connections for easy installation and operation
<b>TYPICAL EFFLUENT QUALITY</b>	BOD <sub>5</sub> , TSS ≤ 5mg/L, TN ≤ 10, fecal coliform = ND	BOD <sub>5</sub> , TSS ≤ 5mg/L, TN ≤ 10, fecal coliform = ND	BOD <sub>5</sub> , TSS ≤ 5mg/L, TN ≤ 10, fecal coliform = ND
<b>STANDARD EQUIPMENT</b>	Membrane bio-reactor (MBR) with odor control, ultraviolet disinfection, PLC control system, duplexed pumps and blowers	Membrane bio-reactor (MBR), ultraviolet disinfection, PLC control system, insulation, duplexed pumps and blowers	Membrane bio-reactor (MBR) with odor control, ultraviolet disinfection, PLC control system, duplexed pumps and blowers
<b>OPTIONS</b>	Cold weather heating & insulation package, workspace A/C, sludge thickening, dial-out emergency notification	Work space heating and A/C, sludge thickening, dial-out emergency notification	Sludge thickening, dial-out emergency notification
<b>INTERFACE REQUIREMENTS (provided by owner)</b>	Wastewater collection/separation tank, equalization/pump tank, sludge holding tank, prepared site with power	Wastewater collection/separation tank, equalization/pump tank, sludge holding tank, support pad with power	Wastewater collection/separation tank, equalization/pump tank, sludge holding tank, support pad with power and weather-proof enclosure for electrical equipment
<b>TYPICAL MARKET APPLICATIONS</b>	Wastewater treatment facility for residential developments, commercial campuses, resorts, visitor centers, country clubs, RV Parks, etc.	Stand-alone sanitary service for commercial buildings, seasonal camps, training sites, reconstruction, emergency management, etc.	Integrated wastewater treatment unit for office buildings, schools, hospitals, hotels, apartment buildings, etc.

## SEAPOINT™ Wastewater Treatment Package Plant Products

# SEAPOINT Integrated Wastewater Treatment Products

## General Specifications

### Treatment Technology & Wastewater Processing Capabilities:

- Treatment system based upon flat-plate membrane bio-reactor (MBR) technology
- 2 to 21 gallons per minute, at 3,000 to 30,000 gallons per day average flow (Up to 50,000 gpd in Series P)
- 6 to 42 gallons per minute for emergency flow up to 24-hours
- *Effluent Supplied Head Pressure: 15'*

**Wastewater Influent Characterization:** The system is optimized to operate within the following blended municipal wastewater input parameters:

- *Maximum Particle Size: 1/8"*
- *TSS: 30 day average not to exceed 300 mg/L*
- *BOD<sub>5</sub>: 30 day average not to exceed 300 mg/L*
- *TKN: 30 day average not to exceed 45 mg/L*
- *Influent Temperature: 50°F (10°C) to 80°F (27°C)*
- *pH: 5.0 – 9.0*

### Treated Effluent Characterization:

- *Maximum Particle Size: not to exceed .005"*
- *TSS: not to exceed 5 mg/L average*
- *BOD<sub>5</sub>: not to exceed 5 mg/L average*
- *Total Nitrogen: not to exceed 10 mg/L average*
- *Turbidity: not to exceed 1.0 NTU*

These influent and effluent values are for standard plant equipment. Additional treatment options are available for influent concentrations that exceed these values and effluent concentrations that must be lower.

### Electric Power Requirements:

- *Customer Supplied Inlet Power: 3-phase, 50 or 60 Hz. Single phase option available for smaller units.*
- *Frequency Stability Limit: +/- 1 Hz of specified line frequency*
- *Line Voltage Fluctuation Limit: +/- 5%*

### Mechanical Equipment

- Effluent pumps and recirculation pumps, aeration blowers, control valves, and ultraviolet disinfection unit are pre-mounted in the system
- Supply pumps are included with the system for installation in the equalization tank.
- Standard system has installed backups for pumps, blowers, and UV disinfection.

### System Controls & Process Monitoring:

- PLC controlled for total automatic operation, including automatic switchover to standby equipment, as needed.
- Display panel for alarms and faults
- Internal modem for remote dial-in connection to PLC
- Optional dial-out modem for emergency notification

### Installation Site:

- *Operating Temperature:* The system will operate at ambient temperatures ranging from 40°F (4°C) to 90°F (32°C). Optional insulation/heating and/or air conditioning are available for operation outside this range.
- *Location:* The installation site should be located in close proximity to the wastewater collection area and a power source sufficient to operate the system.
- *Additional Tanks:* A collection/separation (C/S) tank, which receives all wastewater, and an equalization (EQ) tank, which supplies the system, are required. Filtering capable of removing all particles greater than 1/8 inch is required between the C/S and EQ tanks. Filters are supplied for installation into the C/S tank. An optional active bar screen is available. A sludge holding tank is recommended. Tanks are available as options.
- *Site Work:* Installation of building and tanks, and all on-site plumbing and electrical connections between the treatment unit and peripheral equipment are the responsibility of the customer.

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