



Containerized Treatment Units (CTU)

AdEdge Technologies, Inc

Description

WaterPOD™ Packaged Containerized Treatment Units (CTU) from AdEdge Technologies have been developed to meet the growing U.S. and International demand for small footprint, cost-effective modular water treatment installations. The fully integrated, pre-engineered, pre-wired, packaged water treatment solution combines system performance with economy resulting in an ideal solution for sites where space, cost, and schedule are critical.

WaterPOD™ modular enclosures contain one of AdEdge's many types of Packaged Units or APUs treating a wide variety of

contaminants for drinking water, remediation, or industrial/commercial applications. A single CTU-20 can accommodate design flows of up to 400 gpm (85 cubic meters/hr) inside the unit.

The treatment systems are designed, custom built, and delivered inside the pre-manufactured and customized water tight enclosure. The unit is constructed of painted carbon steel, with steel floor, and multiple other customizable options (insulation, lighting, ventilation, etc) available to meet the site specific requirements.

WaterPOD™ systems can be shipped in the U.S or internationally similar to a standard shipping container. Upon arrival at the site, installation and infrastructure is minimal resulting in an ideal solution without a compromise in performance.

Benefits

- ◆ Pre-designed, pre-piped and integrated treatment system ready for "plug & play" resulting in 25-50% reduction in installation costs compared to conventional building construction
- ◆ Reduced engineering time and expense
- ◆ Minimal on-site work including mechanical and electrical; system inlet / outlet are flanged connections that penetrate the enclosure for simple hookup to the well or water source
- ◆ Power connections available in 110V, 220V per site requirements
- ◆ Can be placed on a simple foundation or concrete slab base
- ◆ The modular concept can save from 15-50% on comparable building costs
- ◆ Can be deployed rapidly to meet aggressive project timelines
- ◆ Ideal for remote sites where construction labor or qualified companies may be less available
- ◆ Reduced time obtaining applicable regulatory or other local building permits



WaterPOD™ Product Specifications

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Containerized Treatment Units (CTU)	Specifications / Description
Treatment System Type	AdEdge Packaged skid mounted Units (APUs) or Modular treatment systems for adsorption, filtration, ion exchange, membrane systems and pre- and post- treatment modules Pressure Filter Vessels, chemical feed with Media for Treatment Carbon Steel Painted Container to House Treatment System Valves, Controls, Meters, Other Options
Primary Contaminants Treated	Arsenic, Iron, Manganese, Fluoride, Uranium, Hydrogen Sulfide, Nitrates, Radium, Total Dissolved Solids, Color, Turbidity, others
Industry Applications	Groundwater or Wellhead Treatment, Remediation, Wastewater Treatment, Mining, and other applications
Treatment Processes	Adsorption, Ion Exchange, Coagulation/Filtration, Oxidation Filtration, Reverse Osmosis or Ultrafiltration
Flow	Up to 400 gpm
Pressure Filter Vessels	100 psi rated, ASME Code Vessels Available as options
Vessel Configuration	2, 3, or 4 Vessels in Parallel or Series

System Piping	Sch 80 PVC, Stainless Steel or other
Valves	Butterfly Vessel Control, Diaphragm System Control
Controls	Manual or Automatic Valve Control with Allen Bradley PLC Automatic Pump Control Available
Container Dimensions	Available in 20' & 40' Lengths x 8' W x 9'6" H
Container Materials	Steel Frame, Corrugated Steel Walls, Treated Wood Floor with Steel Overlay
Heating, Ventilation, AC	Direct Drive Exhaust Fan, Louvers Intake Vents, Heaters, Air Conditioner Available
Insulation	2" High Density Polystyrene Foam w/optional weather proof backing
Doors	Double Swing Out Cargo Doors (One End), Optional Personnel Doors
Electrical & Lighting Systems	Florescent Lighting with Switch, Receptacles, Emergency Lighting, 100 amp Electrical Panel Stubbed to Exterior
Media Loading	Optional Roof Hatches for Ease of Filter Media Loading
Connections	Ready for Hook Up Operation With Flanged Connections Outside Container
Chemical Feed	Pre/Post Chemical Feed Modules for Chlorination, pH Control, Ferric Addition, Polymer Addition
Pumps	Skid Mounted Pumping Systems for Backwash and Recycle
Backwash Recycle System	Customized Minimal and Zero Discharge Backwash Recycle Solutions