



# ATTACHMENT A

## Description: Reverse Osmosis / DI System (Gilbert Addition)

### CONTROL SYSTEM:

- 208/240 Volt, 3 Phase, 60 Hertz
- UL 508 A control panel label
- Fiberglass Nema Enclosure
- Touchscreen controls / Alarm identification screen
- PLC control system
- Digital resistivity meter 2 cell (RO quality / DI quality)
- Low quality alarm tied into the PLC control system
- High level protection tied into the PLC control system
- Low level protection tied into the PLC control system
- 110 Volt outlet to supply power to resistivity indicator light

### REVERSE OSMOSIS COMPONENTS: 1+ GPM (Expandable to 4 GPM)

- Steel frame / powder coated: Sized to fit thru a 34" door way
- 1.5 stainless steel multistage pump: Grundfos CRI3-9
- Low pressure pump shut-off switch (adjustable)
- 2.5" x 20" filter housing with differential pressure gauges
- Stainless steel control panel
- Pre-filter and post-filter pressure gauges: 4 Panel Mount Gauges
- 1 Hi-flux stainless steel reverse osmosis housings
- 1 reverse osmosis elements
- Stainless steel needle valves
- Feed, and concentrate flow meters 3 each (0 - 10 gpm)
- Feed and concentration pressure gauges

### DI WATER RECIRCULATING SYSTEM: 8 GPM

- Steel frame / powder coated: Sized to fit thru a 34" door way
- .5 HP stainless steel multistage pump: Grundfos
- Ball valve between pump and tank (simplify pump repair / replacement)
- Back-pressure regulator valve: Pump protect from clogged filter
- Back-pressure regulator valve: By-pass into the tank
- 2.5" x 20" filter housing with differential pressure gauges (Pre-DI)
- 2.5" x 20" filter housing with differential pressure gauges (Post-DI)
- Resistivity indicator light for (1st Mixed Bed Tank)
- By-pass to change filters and DI Tanks
- Plumbing material (PVC schedule 80 and Polyethylene tubing)
- High pressure DI compatible hose for DI tanks

### TANK AND ACCESSORIES:

- (2) 100 gallon tank:
- Bulk head fittings for tank penetrations
- .5" polypropylene float switches
- 2.5" x 10" clear filter housing (1 micron to pre-filter air)
- Connection plumbing to cycle water through both tanks

### SPILL CONTAINMENT HIGH LEVEL AND ALARM SYSTEM PACKAGE:

- Polypropylene spill containment tray
- Float switch located in spill tray tied to PLC controls
- 3/4" Actuator valve tied to high level alarm (shut-off supply water)

### ULTRAVIOLET LAMP ASSEMBLY:

- Atlantic UV light MP36C

12 GPM unit  
Stainless steel construction  
Pre-installed and integrated into the DI delivery system

**DIGITAL CHART RECORDER (6 Inputs to record events)**

Chart RO quality  
Chart DI quality  
Ethernet connect on status of water quality (Remote Location)  
\* Remote viewing from PC with proprietary softener (6 Data Points)

**NOTE:** Frame for RO system will have space to expand the number of membranes from 1 to 3 and accommodate a large RO pump.

Frame for DI system will have space to accommodate a larger pump in order to recirculate through a building or add capacity.