



## AquaPRS™ PFAS Removal System

### Standard Scope of Supply

The example scope of supply below is for a single stage treatment with the AquaPRS™ PFAS removal process. Please note the sizes, volumes and number of components will vary based on the project specific design.

Below is the equipment supply to be provided by Aqua-Aerobic Systems, Inc. The scope of supply is limited to the items included in the supply list below. A list of additional items to provide a complete system are included in the design notes.

- 1 Sorbent Contact Tank Group(s):
  - 1 6" - Influent Flow Meter(s)
  - 1 6" - Modulating Influent Control Valve(s)
  - 1 4,650 gal - Sorbent Contact Tank(s)
  - 1 Level Transducer & Transmitter(s)
  - 1 HWL Float Switch(es)
  - 1 Pressure transmitter(s).
  - 1 3" - Actuated Drain/Waste Valve to Settling Tank.
  - 1 20 gpm - Sorbent Transfer Pump(s)
  - 1 2" - Actuated Sorbent Feed Isolation Valve(s)
  - 1 1.5" - Actuated Sorbent Supernatant Return Valve(s)
  
- 1 Loose Recycle Pump(s) & Separator Process Valve(s) Group(s):
  - 1 5418 gpm - Recycle Pump(s)
  - 1 Pressure Transducer
  - 1 18" - Actuated Separator Feed Valve(s)
  - 1 16" - Actuated Separator Recycle Return Valve(s)
  - 2 4" - Actuated CIP Return Flow Valve(s)
  - 2 18" - Manual Recycle Pump Isolation & Return Valve(s)
  
- 1 Separator System Group(s):
  - 5 Rack Frame(s) per Separator
  - 10 Separator Modules Per Rack
  - 10 4" - Rack Effluent Header(s)
  - 10 8" - Rack Influent Header(s)
  - 10 8" - Rack Recycle Return Header(s)
  - 10 4" - Actuated Backpulse Valve(s)
  - 10 4" - Actuated Effluent Valve(s)
  
- 1 Backpulse System Group(s):
  - 1 4" - Backpulse Flow Meter(s)

- 1 250 gpm - Backpulse Pump(s)
  - 1 Backpulse Pressure Transmitter(s)
  - 1 Backpulse Pressure Gauge(s)
  - 1 4" - Actuated Backpulse Isolation Valve(s)
- 1 Effluent Isolation Group(s):
- 1 6" - Actuated Effluent Isolation Valve(s)
  - 1 6" - Manual Effluent Isolation Valve(s)
  - 1 Effluent Pressure Transmitter(s)
- 1 Settling Tank Group(s):
- 1 3,824 gal - Settling Tank(s)
  - 1 Level Transducer & Transmitter
  - 1 HWL Float Switch(s)
  - 1 20 gpm - Sorbent Waste & Supernatant Transfer Pump(s)
  - 2 1.5" - Actuated Sorbent Supernatant Isolation Valves
  - 2 1.5" - Actuated Sorbent Drain/Waste Valve(s)
- 1 Common Loose Header Piping Interconnecting Rack Group(s):
- 1 12" by 18" by 12" - Influent Header
  - 1 12" by 16" by 12" - Recycle Return Header
  - 1 4" by 6" by 4" - Common Effluent Header
- 1 Control Panel(s) consisting of:
- FRP enclosure(s).
  - Fuses and fuse blocks.
  - GFI convenience outlet(s).
  - Control relay(s).
  - Selector switch(es).
  - Indicating pilot light(s).
  - Ethernet switch(es).
  - Hubbell Cat 6 Ethernet Cable.
  - Power supply(ies).
  - Compactlogix Processor.
  - Compactflash.
  - End cap(s).
  - Power supply(s).
  - Input card(s)
  - Relay output(s).
  - Analog input(s).
  - Analog output(s).
  - Panelview plus 6 1250 operator interface(s).
  - UL label(s).
- 1 CIP Chemical Feed Equipment Group:
- 1 Caustic Chemical Drum Level Transducer(s) & Transmitter(s)
  - 1 25 gal/hr - Peristaltic Pump - Caustic
  - 1 Acid Chemical Drum Level Transducer(s) & Transmitter(s)
  - 1 25 gal/hr - Peristaltic Pump - Caustic

- 0 Chlorine Chemical Drum Level Transducer(s) & Transmitter(s)
  - 0 25 gal/hr - Peristaltic Pump - Caustic
  - 0 Critic Acid Chemical Drum Level Transducer(s) & Transmitter(s)
  - 0 25 gal/hr - Peristaltic Pump - Caustic
- 1 CIP Tank & Valve Equipment Group:
- 1 300 gpm - CIP Recycle Pump(s)
  - 1 1950 gal - CIP Tank(s)
  - 4 6" - Actuated CIP Solution Return Isolation Valve(s)
  - 1 4" - Actuated CIP Solution Feed Isolation Valve(s)
  - 1 0.5" - Actuated CIP Chemical Feed Isolation Valve(s)
  - 1 Level Transducer & Transmitter(s)
  - 1 Heater Element
  - 1 pH/temperature probe & transmitter
- 1 Sorbent Feed & Storage Equipment Group:
- 2 30 gpm - Sorbent Feed Pump(s)
  - 2 Sorbent Storage Vessel: Bulk Vessel(s) - 1,985 gal - Capacity
  - 2 Tanks Mixer(s)
  - 2 HWL Float Switch(es)
  - 2 Level Transducer(s) & Transmitter(s)
- 1 Spare Parts & Equipment Group:
- 1 Recycle Pump
  - 0 Backpulse Pump
  - 0 Sorbent Feed Pump
  - 1 Sorbent Contact Level Transducer & Transmitter
  - 1 Sorbent Storage Vessel Level Transducer & Transmitter

## OPTIONAL EQUIPMENT

Below is optional equipment not included in Aqua-Aerobic Systems, Inc. standard scope of supply for the AquaPRS treatment system.

- 1 Effluent / Backpulse Tank Group(s):
- 1 3,750 gal - Effluent / Backpulse Tank
  - 1 Effluent / Backpulse Level Transducer & Transmitter
  - 1 HWL Float Switch
- 1 Influent Pump Group(s):
- 1 465 gpm - Influent Pump(s)
    - 1 - Duty Pump(s)
    - 0 - Redundant Pump(s)
  - 1 Pressure Gauges & Transmitters
- 1 Strainer Group(s):
- 2 465 gpm - Influent Strainer(s)
    - 1 - Duty Strainer(s)
    - 1 - Redundant Strainer(s)
  - 2 Pressure Gauges & Transmitters