

PFAS REMOVAL PFx™ STANDARD SYSTEMS



201 Lincoln Boulevard
Middlesex, NJ 08846
(732) 469-4540
www.psiprocess.com Employee Owned



AdEdge™
water technologies
A Chart Industries Company

GAC-PFx-MODULAR

AdEdge standard systems for the treatment of ground and surface water for per and Polyfluoroalkyl Substances (PFAS) compounds to below current federal, state, or other regulatory standards.

The PFX systems use Calgon F400 media are available both in Skid mounted or Modular configurations for ease of installation indoors or outdoors. Systems are equipped with piping, valve rack, and instrumentation to meet the needs for a wide range of flows and customer needs, including both parallel and lead / lag capabilities.

AdEdge provides all the needed engineering and field service support for system sizing, selection, startup and commissioning to attain the treatment objectives. AdEdge can also provide the necessary pre- or post-treatment processes and equipment to meet multi-contaminant treatment scenarios.



TECHNICAL SPECIFICATIONS

| Vessel and Operating Specifications | |
|---|--|
| # of Vessels | 2 (modular) |
| Material | Carbon Steel, non-ASME code with optional ASME code vessels |
| Max Pressure | 100 PSI @ 135°F |
| Empty Bed Contact Time | 7.5-10 mins |
| External Coatings | |
| External Coating | Tnemec N69F Epoxy (Indoor Installations) Add Tnemec 1075 Urethane for Outdoor use |
| Material Specifications | |
| Filter Media | Calgon F400 |
| Underbedding | N/A |
| Piping Specifications | |
| Piping/Valve Size | Sch 80 PVC (or DI*) |
| Process Control Valve | Wafer style butterfly valves |
| Service I/O | 150# Sch 80 PVC (or DI*) Flange |
| Backwash I/O | 150# Sch 80 PVC (or DI*) Flange |
| Discharge | 4" 316 SS Camlock slurry discharge on vessels larger than 84" in diameter |
| Lower Distributors | PVC Hub and Slotted Lats, SS for vessel sizes larger than 84" |
| Instrumentation | |
| 0-100 psi Pressure gauges on inlet / outlet | |
| McCrometer Flow Meter | |

PROCESS DESCRIPTIONS

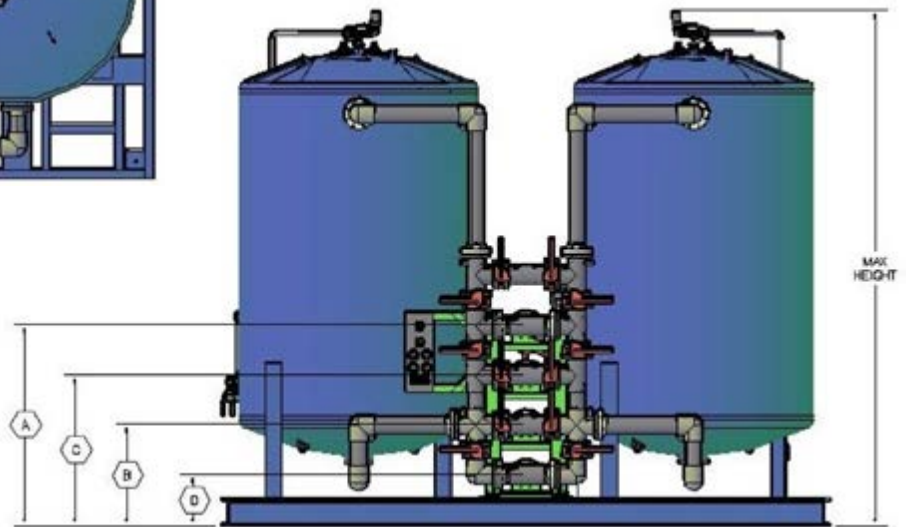
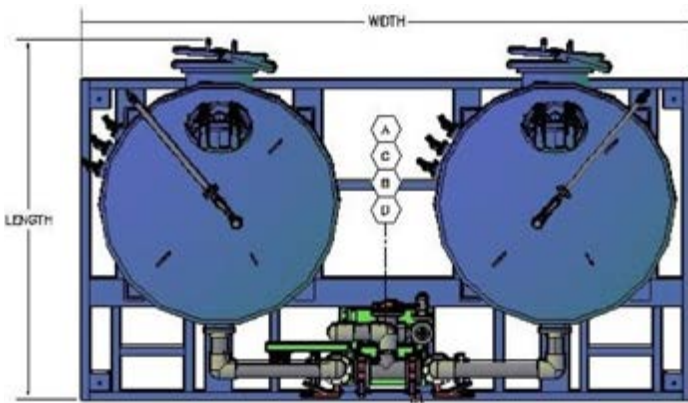
| XXXX | Flowrate (gpm) | Backwash (gpm) | Upper Distributor | Interior Liner | Media per vessel (ft³) |
|--------|----------------|----------------|----------------------------|-------------------|------------------------|
| 2472 | <10 | 28 | 1-point upturn PVC lateral | 3M Scotchkote 134 | 14 |
| 3672 | 11-23 | 64 | 1-point upturn PVC lateral | 3M Scotchkote 134 | 31 |
| 4872 | 24-40 | 113 | 2-point upturn PVC lateral | Tnemec Series 22 | 55 |
| 6072 | 41-65 | 177 | 4-point upturn PVC lateral | Tnemec Series 22 | 87 |
| 6672 | 66-80 | 214 | 4-point upturn PVC lateral | Tnemec Series 22 | 107 |
| 7296 | 81-124 | 254 | 4-point upturn PVC lateral | Tnemec Series 22 | 165 |
| 8496* | 125-171 | 346 | 4-point upturn SS lateral | Tnemec Series 22 | 230 |
| 9696* | 172-245 | 452 | 4-point upturn SS lateral | Tnemec Series 22 | 333 |
| 10896* | 246-315 | 573 | 4-point upturn SS lateral | Plasite 4110 | 433 |
| 12096* | 316-400 | 707 | 4-point upturn SS lateral | Plasite 4110 | 549 |

Read by combining vessel OD then side shell into one number. I.e., a vessel with 72" OD and 96" side shell would be 7296

CONSOLIDATED SPECS FOR MODULAR SERIES WITH CALGON GAC MEDIA

| XXXX | Pipe Size (inches) | A (inches) | B (inches) | C (inches) | D (inches) | Top Manway Size (inches) | Side Manway Size (inches) | Width (inches) | Length (inches) | System Weight (lbs) | Max Height (inches) |
|--------|--------------------|------------|------------|------------|------------|--------------------------|---------------------------|----------------|-----------------|---------------------|---------------------|
| 2472 | 2 | 49 | 16-3/8 | 39-1/16 | 6-7/16 | 12x16 | N/A | 66-1/2 | 47-5/8 | 4417 | 105 |
| 3672 | 2 | 49 | 16-3/8 | 39-1/16 | 6-7/16 | 12x16 | N/A | 92 | 60 | 9713 | 105 |
| 4872 | 3 | 42-9/16 | 19-3/16 | 30 | 6-5/8 | 12x16 | N/A | 121 | 76-3/4 | 17341 | 115-1/8 |
| 6072 | 4 | 52-1/8 | 22-3/8 | 37-1/4 | 7-1/2 | 12x16 | N/A | 148 | 75-3/4 | 27989 | 121 |
| 6672 | 4 | 52-1/8 | 22-3/8 | 37-1/4 | 7-1/2 | 12x16 | N/A | 148-3/8 | 80-3/8 | 34644 | 121 |
| 7296 | 4 | 52-1/8 | 22-3/8 | 37-1/4 | 7-1/2 | 12x16 | 20 | 172 | 106 | 52221 | 146 |
| 8496* | 6 | 60-1/4 | 26 | 42-1/8 | 7-7/8 | 12x16 | 20 | 205-1/4 | 115 | 73349 | 151-13/16 |
| 9696* | 6 | 60-1/4 | 26 | 42-1/8 | 7-7/8 | 12x16 | 20 | 223-1/4 | 115 | 99816 | 151-13/16 |
| 10860* | 6 | 60-1/4 | 26 | 42-1/8 | 7-7/8 | 12x16 | 20 | 253-5/16 | 139 | 129982 | 174-1/2 |
| 12096* | 8 | 68-1/16 | 29-7/16 | 47-9/16 | 8-5/16 | 12x16 | 20 | 286-1/2 | 152 | 176997 | 194-3/4 |
| 12096* | 8 | 68-1/16 | 29-7/16 | 47-9/16 | 8-5/16 | 12x16 | 20 | 286-1/2 | 152 | 176997 | 194-3/4 |

*DI piping



201 Lincoln Boulevard
Middlesex, NJ 08846

(732) 469-4540

www.psiprocess.com

Employee Owned