

| | SBS | Typhoon | CyclonatorII | CyclonatorIII | CyclonatorIV |
|--------------------------------|---|--|---|---|---|
| Dimensions | | | | | |
| Wash area | Sump Based Any Depth | | Varies | Varies | Varies |
| Weight (dry) | 800 Lb | 5000 Lb | 1600 Lb | 3000 Lb | 6000 Lb |
| L X W X H | 36" D x 72" W x 72" H | 19L x 39W x 3 H | 110" x 48" x 55" | 138" L x 60" W x 84" H | 168" L x 60" W x 84" H |
| Holding tank | 42" diameter, 84" H | Internal | 42" diameter, 84" H | Internal | Internal |
| Capacities | | | | | |
| Water In Process | 180 gallons | 120 gallons | 200 gallons | 850 gallons | 1300 gallons |
| Holding Tank | 600 gallons | 70 gallons | 400 gallons | 1200 gallons | 2000 gallons |
| Pressure | 60 PSI max filter pressure | 40 PSI max filter pressure | 100 PSI max filter pressure | 100 PSI max filter pressure | 100 PSI max filter pressure |
| Flow Filter Process | 0-25 GPM | 3.6 GPM | 12-30 GPM | 12-40 GPM | 0-100 GPM |
| Electric | 220V 1 PH 30A | 220V 1 PH 50A | 220V single, 240V or 480V 3 phase | 220V single, 240V or 480V 3 phase | 220V single, 240V or 480V 3 phase |
| Standard Filtration | | | | | |
| Oil Coalescing | 6 cu ft (792 feet) | 132 sq. feet | 2 cu ft (264 feet) | 6 cu ft (792 feet) | 9 cu ft (1188 feet) |
| Oil Skimming | Stainless steel skimmer 1 GPH capacity | Coalescing media | Stainless steel skimmer 1GPH with internal reservoir | Stainless steel skimmer 1GPH with external reservoir | Stainless steel skimmer 1GPH with external reservoir |
| 1st Bag Filter | none | none | Certa-Seal™ absolute 25 micron cleanable filter | Certa-Seal™ absolute 25 micron cleanable filter | Certa-Seal™ absolute 25 micron cleanable filter |
| 2nd Bag Filter | none | none | Certa-Seal™ absolute 9 micron oil adsorbing depth filter | Certa-Seal™ absolute 9 micron oil adsorbing depth filter | Certa-Seal™ absolute 9 micron oil adsorbing depth filter |
| Ozone | Optional single cell corona discharge | 24/7 automatic ozone injection | 24/7 automatic ozone injection | 24/7 automatic ozone injection | 24/7 automatic ozone injection |
| Settling | 115 gallons with shear wall | 85 gallons | 200 gallons with clean out and 2" drain | 600 gallons with automatic sludge conveyor | 900 gallons with automatic sludge conveyor |
| Recirculation | Optional with ozone | 24/7 complete system recirculation | 24/7 complete system recirculation | 24/7 complete system recirculation | 24/7 complete system recirculation |
| Enclosure | | | | | |
| Material | Stainless Steel with optional polyethylene lid | PPG Pithane coated steel and aluminum | Stainless Steel | Stainless Steel with optional polyethylene lid | Stainless Steel with optional polyethylene lid |
| Components and Controls | | | | | |
| Electrics | NEMA 4 Rated wet environment to NEC standards w/UL listed components | NEMA 4 Rated wet environment to NEC standards w/UL listed components | NEMA 4 Rated wet environment to NEC standards w/UL listed components | NEMA 4 Rated wet environment to NEC standards w/UL listed components | NEMA 4 Rated wet environment to NEC standards w/UL listed components |
| Electric Enclosure | Allen Bradley® PLC, contactors, thermal protection, fuse blocks, fuse blocks, fuse terminations, Industrial use | Allen Bradley® PLC, contactors, thermal protection, fuse blocks, fuse terminations, Industrial use | Allen Bradley® PLC, contactors, thermal protection, fuse blocks, fuse terminations, Industrial use | Allen Bradley® PLC, contactors, thermal protection, fuse blocks, fuse terminations, Industrial use | Allen Bradley® PLC, contactors, thermal protection, fuse blocks, fuse terminations, Industrial use |
| Pumps | NEMA 4X rated with NEMA4X pushbuttons and cord grips | NEMA 4X rated with NEMA4X pushbuttons and cord grips | All TEFC motors, solid state thermal protection, wet environment | All TEFC motors, solid state thermal protection, wet environment | All TEFC motors, solid state thermal protection, wet environment |
| Recovery | Submersible cast iron sump pump with 2" solids capacity | 2" diaphragm pump with 30 RPM reduction gear TEFC | Vacuum generated by TEFC 2-4-3RP regenerative | Sump or above ground industrial pump 2" solids tolerance | Sump or above ground industrial pump 2" solids tolerance |
| Ozone | Optional corona discharge single cell with 1 HP stainless steel injection pump | 1 cell Corona discharge ozone with 1 HP injector pump | Corona discharge (electric) ozone with venturi injection Custom 304 stainless steel 125 PSI/Certa-Seal housing; Optional 65" custom fiberglass media tank 100 PSI | 2-4 cell corona discharge with 1 HP stainless steel injector pump | 2-4 cell corona discharge with 1 HP stainless steel injector pump |
| Filter Housings | Optional 65" custom fiberglass media tank 100 PSI | 1.5 cu ft. custom fiberglass media tank 100 PSI | | Custom 304 stainless steel 125 PSI/Certa-Seal housing; Optional Dual 65" custom fiberglass media tank 100 PSI | Custom 304 stainless steel 125 PSI/Certa-Seal housing; Optional Dual 65" custom fiberglass media tank 100 PSI |
| Operation | | | | | |
| On/Off | Automatic, float activated | Automatic Start/Stop trigger gun activated | water sensor | Automatic Start/Stop water sensor | Automatic Start/Stop water sensor |
| Processing | Automatic, float activated | Automatic Start/Stop trigger gun activated | Automatic, controlled by floats and PLC | Automatic, PLC operation with tank sensors and refill provisions | Automatic, PLC operation with tank sensors and refill provisions |
| Wash Rack | | | | | |
| Dimensions | Sump based, no maximum or minimum size | 9'W x 8'Long or 16'Long | 6' x 6' increments 6" high | Above Ground racks with skid steer trench or Sump based, any depth, any area, indoors or outside | Sump based, any depth, any area, indoors or outside |
| Construction | Steel or Concrete | Diamond Plate Steel, hinged Ramp, integral walls | 3/8" diamond tread plate 7 ga. Structural steel, 19W4 1.5" grating | 3/8" diamond tread plate, 7 ga. Structural steel, 19W4 1.5" grating | Concrete or Steel |
| Capacity | Design driven | 6,000 per line | up to 10,000 Lb. Per line load | up to 25,000 per line | Design driven |
| Walls | Application specific | Steel, 414, tub rail, 360 degree containment | 6th galvanized 2 or 3 sides, taller sides available | 6th galvanized 2 or 3 sides, taller sides available | Application specific |
| Ramps | Not needed, can be designed to suit | Steel, 316 x 61, spring assist, latched sidewalk | 4 x 6 low angle approach | 4 x 6 low angle approach | Not needed, can be designed to suit |
| Trough | Can be designed in with sump | 4' x 12" with multiple suction points | 2 each 8" troughs covered with grates, suction from either end | 2 each 8" troughs covered with grates, suction from either end | Can be designed in with sump |
| Trough, Skid Steer | Can be designed in with sump | Not Applicable | 6' wide side trough designed for cleanout with skid steer | 6' wide side trough designed for cleanout with skid steer | Can be designed in with sump |
| Filtration Options | | | | | |
| 1st Filter | Available Option | Not applicable | 85 gallon large particle filter | Not Needed with integral mud conveyor | Not needed with integral mud conveyor |
| Material | Polyethylene | Not Applicable | Stainless steel or aluminum | Not Applicable | Not Applicable |
| Dimensions | 50 gallons 19" x 32" | Not Applicable | 24" x 24" x 42" | na | na |
| Filters | Four Each 25-200µ Cleanable Felt | Not Applicable | Four Each 25-200µ Cleanable Felt | na | na |
| Media | Suspended solids reduction | Integral media tank | Suspended solids reduction | Suspended solids reduction | Suspended solids reduction |
| Dimensions | 5 cu ft. 65" H | Integral media tank | 90" x 36" x 90" skid mounted | 90" x 36" x 90" skid mounted | 90" x 36" x 90" skid mounted |
| Controls | Manual Brass valves for fresh water back flush through backflush tank | Automatic Backflush with 1/2 HP backflush pump | Automatic, controlled by floats and PLC | Automatic, controlled by floats and PLC | Automatic, controlled by floats and PLC |
| Pump | 1 HP Stainless Steel Media Pump | 1 HP Stainless Steel Media Pump | ITT Goulds | ITT Goulds | ITT Goulds |
| Housing | Fiberglass 125 PSI Vertical housing with custom base | Fiberglass with custom base | High pressure vertical design industrial grade | High pressure vertical design industrial grade | High pressure vertical design industrial grade |
| Media | Multi-Layer with 2" slotted laterals and particulate removal to 3 micron available | Multi lateral side inlet/outlet 10 micron solids removal | Three grades of media from gravel to zeolite | Three grades of media from gravel to zeolite | Three grades of media from gravel to zeolite |
| Backwash | Custom Backwash tank to package backflush debris | Automatic Integral Backflush Tank | Manual or automatic | Manual or automatic | Manual or automatic |
| Biological | Oil and biological applications | Not Available | Oil and biological applications | Oil and biological applications | Oil and biological applications |
| Aerobic Bacteria | Specific to application, liquid or dry | Specific to application, liquid or dry | Specific to application, liquid or dry | Specific to application, liquid or dry | Specific to application, liquid or dry |
| pH adjust | Dema injection pump with scott instrumentation | Dema injection pump with scott instrumentation | Dema injection pump with scott instrumentation | Dema injection pump with scott instrumentation | Dema injection pump with scott instrumentation |
| Air Injection System | | | | | |
| | 5HP high flow air injection with ultra-fine pore dispersion | 5HP high flow air injection with ultra-fine pore dispersion | 5HP high flow air injection with ultra-fine pore dispersion | 1HP high flow air injection with ultra-fine pore dispersion | 1HP high flow air injection with ultra-fine pore dispersion |
| Tankage | | | | | |
| Carbon | Custom 800 gallon tank with 3000 sq. ft. biomass support | Custom 800 gallon tank with 3000 sq. ft. biomass support | Custom 800 gallon tank with 3000 sq. ft. biomass support | Custom 2000 gallon tank system with 9000 sq. ft. biomass support | Custom 2000 gallon tank with 9000 sq. ft. biomass support |
| Dimensions | Metal, BOD and odor control | Metal, BOD and odor control | Metal, BOD and odor control | Metal, BOD and odor control | Metal, BOD and odor control |
| Controls | 80" x 36" x 90" skid mounted | 80" x 36" x 90" skid mounted | 80" x 36" x 90" skid mounted | 80" x 36" x 90" skid mounted | 80" x 36" x 90" skid mounted |
| Pump | Automatic, controlled by floats and PLC | Automatic, controlled by floats and PLC | Automatic, controlled by floats and PLC | Automatic, controlled by floats and PLC | Automatic, controlled by floats and PLC |
| Housing | ITT Goulds | ITT Goulds | ITT Goulds | ITT Goulds | ITT Goulds |
| Media | High pressure vertical design industrial grade | High pressure vertical design industrial grade | High pressure vertical design industrial grade | High pressure vertical design industrial grade | High pressure vertical design industrial grade |
| Ultra Filter | Activated carbon | Activated carbon | Activated carbon | Activated carbon | Activated carbon |
| Flow | Scale of removal | Scale of removal | Scale of removal | Scale of removal | Scale of removal |
| Pressure | Housing and pump installed on Cyclonator | Housing and pump installed on Cyclonator | Housing and pump installed on Cyclonator | Housing and pump installed on Cyclonator | Housing and pump installed on Cyclonator |
| Tank | 600-gallon, 42" diameter 84" H | 600-gallon, 42" diameter 84" H | 600-gallon, 42" diameter 84" H | Up to 2000 gallons | Up to 2000 gallons |
| Flows | 1.2 GPM | 1.2 GPM | 1.2 GPM | 2-4-8 GPM | 2-4-8 GPM |
| Pressure | Maximum pressure 200 PSI | Maximum pressure 200 PSI | Maximum pressure 200 PSI | Maximum pressure 200 PSI | Maximum pressure 200 PSI |
| Pump | ITT Goulds | ITT Goulds | ITT Goulds | ITT Goulds | ITT Goulds |
| Housing | Stainless steel Codeline housing | Stainless steel Codeline housing | Stainless Steel Housing | Stainless Steel Housing | Stainless Steel Housing |
| Membrane | Spiral Wound Thin Film Membrane | Spiral Wound Thin Film Membrane | Spiral Wound Thin Film Membrane | Spiral Wound Thin Film Membrane | Spiral Wound Thin Film Membrane |
| Controls | Flow and Pressure | Flow and Pressure | Flow and Pressure | Flow and Pressure | Flow and Pressure |
| Reverse Osmosis | Manual or automatic membrane cleaning loop | Manual or automatic membrane cleaning loop | Manual or automatic membrane cleaning loop | Manual or automatic membrane cleaning loop | Manual or automatic membrane cleaning loop |
| Dimensions | Salts, soaps and heavy metal removal | Salts, soaps and heavy metal removal | Salts, soaps and heavy metal removal | Salts, soaps and heavy metal removal | Salts, soaps and heavy metal removal |
| Tank | Housing and pump installed on Cyclonator | Housing and pump installed on Cyclonator | Housing and pump installed on Cyclonator | Housing and pump installed on Cyclonator | Housing and pump installed on Cyclonator |
| Flows | 600-gallon, 42" diameter 84" H | 600-gallon, 42" diameter 84" H | 600-gallon, 42" diameter 84" H | Up to 2000 gallons | Up to 2000 gallons |
| Pressure | 1.2 GPM | 1.2 GPM | 1.2 GPM | 2-4-8 GPM | 2-4-8 GPM |
| Pump | Maximum pressure 200 PSI | Maximum pressure 200 PSI | Maximum pressure 1000 PSI | Maximum pressure 1000 PSI | Maximum pressure 1000 PSI |
| Housing | ITT Goulds Stainless Steel RO pump | ITT Goulds Stainless Steel RO pump or PD Pump | ITT Goulds Stainless Steel RO pump or PD Pump | ITT Goulds Stainless Steel RO pump or PD Pump | ITT Goulds Stainless Steel RO pump or PD Pump |
| Membrane | Codeline Housing | Codeline Housing | Codeline Housing | Codeline Housing | Codeline Housing |
| Controls | Spiral Wound Thin Film Membrane | Spiral Wound Thin Film Membrane | Spiral Wound Thin Film Membrane | Spiral Wound Thin Film Membrane | Spiral Wound Thin Film Membrane |
| Flush | Flow and Pressure Automatic Start/Stop | Flow and Pressure Automatic Start/Stop | Flow and Pressure Automatic Start/Stop | Flow and Pressure Automatic Start/Stop | Flow and Pressure Automatic Start/Stop |
| | Manual Cleaning Loop | Manual Cleaning Loop | Manual Cleaning Loop | Manual or automatic membrane cleaning loop | Manual or automatic membrane cleaning loop |