

**Applications & Equipment:** Where our manufacturers equipment may be used within your specific plant process or application.

### Pump Stations

|                            |   |
|----------------------------|---|
| JWC Environmental:         | Grinders, Auger Monsters, Fine Screens & Screenings Washer  |
| USFilter Davis EMU:        | Submersible: Non-Clog, Single Channel Screw, Vortex, Propeller, Hard Metal Vortex Grit, and Contractor Drainage Pumps<br>Dry Pit Submersible Pumps, Submersible Mixers  |
| USFilter Controls          | Pump Controls   |
| QE Controls:               | Pump Controls   |
| Revere Controls:           | Pump Controls   |
| EBARA International:       | Submersible: Non-Clog, Vortex, Grinder, Propeller, all S.S. Non-Clog and Vortex, and Sewage, Effluent, Sump & Drainage Pumps;<br>Dry Pit Submersible Non-Clog Sewage Pumps<br>All Stainless Steel: Centrifugal End Suction, Self Priming, Stacked Diffuser, Multistage, High Pressure Water Booster Pumps |
| Hayward Gordon:            | Chopper, Hard Metal Grit, Recessed Impeller, Screw Centrifugal, Vertical Cantilever, Vertical Bearing, Solids Handling, Submersible.  |
| Watson Marlow Bredel:      | Chemical Metering Pumps (Tube and Hose Type)  |
| Neptune:                   | Chemical Metering Pumps (Diaphragm & Hydraulically Actuated Diaphragm)Metalfab: Dry Chemical Screw Feeders  |
| McCrometer:                | Flowmeters  |
| USFilter RJ Environmental: | Conventional Carbon (not skid mounted), Conventional Packed Towers, Emergency Vapor Scrubbers, Lo/Pro Packaged Systems, Biological Odor Control Systems, Modular Carbon Adsorbers   |
| USFilter Davis Products:   | Bioxide-AQ Odor and Corrosion Control   |
| USFilter Envirex/Linkbelt: | Mechanical Bar Screens (Coarse and Fine Screens), Screenings Compactors, Screw Compactors   |

### Headworks

|                                     |   |
|-------------------------------------|---|
| USFilter Envirex/Linkbelt:          | Mechanical Bar Screens (Coarse and Fine Screens), Screenings Compactors, Vortex and Circular Grit Collectors, Chain Type Grit Collectors, Chain & Bucket Grit Collectors, Grit Washers & Thickeners, Oil/Water Separators, Screw Compactors |
| USFilter Envirex:<br>(Diffused Air) | Diffusers for Aerated Grit Chambers   |
| JWC Environmental:                  | Grinders, Auger Monsters, Fine Screens, Septage Receiving, Screenings Washer  |
| USFilter Davis EMU:                 | Submersible: Non-Clog, Single Channel Screw, Vortex, Propeller, & Hard Metal Vortex Grit, Pumps, Dry Pit Submersible Pumps  |

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| USFilter Controls          | Pump Controls   |
| QE Controls:               | Pump Controls   |
| Revere Controls:           | Pump Controls   |
| Stamford Scientific (SSI): | Diffusers for Aerated Grit Chambers   |
| Hayward Gordon:            | Chopper, Grit, Recessed Impeller, Screw Centrifugal, Vertical Cantilever, Vertical Bearing, Solids Handling, Submersible.   |
| Hydro International:       | Vortex Grit Equipment, Grit Classifiers, Grit Washers   |
| Ebara International:       | Submersible: Non-Clog, Vortex, Grinder, Propeller, all S.S. Non-Clog and Vortex, and Sewage, Effluent, Sump & Drainage Pumps; Dry Pit Submersible Non-Clog Sewage Pumps           |
| Watson Marlow Bredel:      | Chemical Metering Pumps (Tube and Hose Type)  |
| Neptune:                   | Chemical Metering Pumps (Diaphragm & Hydraulically Actuated Diaphragm)  |
| Metalfab:                  | Dry Chemical Screw Feeders  |
| McCrometer:                | Flowmeters  |
| USFilter RJ Environmental: | Conventional Carbon (not skid mounted), Conventional Packed Towers, Emergency Vapor Scrubbers, Lo/Pro Packaged Systems, Biological Odor Control Systems, Modular Carbon Adsorbers |
| USFilter Davis Products:   | Bioxide-AQ Odor and Corrosion Control   |
| Aqua Aerobic Systems:      | Diffusers for Aerated Grit Chambers   |
| Hayward Gordon:            | Slow Speed Mechanical Mixers  |
| USFilter Asdor:            | Screenings Conveyors  |
| Gardner Denver:            | Centrifugal Blowers and Controls  |
| (Hoffman & Lamson)         |   |
| Gardner Denver:            | Single Stage and Regenerative Blowers and Controls  |
| (AeroFlow and TurboTron)   |   |
| Revere Controls:           | Blower Controls   |

### **Chemical & Ultraviolet Disinfection, Chemical Addition**

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|-------------------------|---|
| Wedeco UV Technologies: | Ultraviolet UV Systems for Water & Wastewater   |
| Watson Marlow Bredel:   | Chemical Metering Pumps (Tube and Hose Type)  |
| Neptune:                | Packaged Chemical Feed Systems and Pumps of all Materials of Construction. Hydraulically Actuated Chemical Feed, Electronic Diaphragm, Liquid Polymer Systems |
| Netzsch:                | Progressing Cavity Pumps of all Materials of Construction   |
| Onyx Valve:             | Pinch Valves & Pressure Sensors   |
| Fluid Dynamics:         | Liquid & Dry Polymer Feed Systems   |
| Metalfab:               | Dry Chemical Feeders, Bin Activators, Volumetric Screw Feeders, Compact & Miniature Screw Feeders, Bulk Bin Storage   |
| TAH:                    | In-Line Static Mixers   |

### **Aeration & Mixing**

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| Hayward Gordon: | (Slow and High Speed) Portable, Top Entry, Side Entry, Dynamic In-Line, Static In-Line, MagDrive Mixers |
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| USFilter Davis EMU:                         | Submersible & Jet Aerators   |
| Neptune:                                    | Portable Mixers  |
| Gardner Denver:<br>(Hoffman & Lamson)       | Centrifugal Blowers and Controls   |
| Gardner Denver:<br>(AeroFlow and TurboTron) | Single Stage and Regenerative Blowers and Controls   |
| Revere Controls:                            | Blower Controls  |
| Aqua Aerobic Systems:                       | Floating Aerators and Mixers, Fine Bubble Flexible Membrane and Tube Diffusers, Stainless Steel Coarse Bubble, Retrievable Diffuser Systems  |
| Biomixer:                                   | Fine Bubble Aeration   |
| USFilter Envirex:                           | <b>Coarse Bubble Diffusers:</b> S-P, Variair, Snap-Cap, Airseal, (Diffused Air) Wideband Stainless Steel, Airband Wideband Plastic Diffuser<br><b>Fine Bubble Diffusers:</b> FlexDisc (Threaded Connection), FlexDome (Ceramic Dome Replacement), DualAir Membrane and Ceramic, FineAir Membrane & Ceramic, Flexline Tubular |
| Stamford Scientific (SSI):<br>Environetics: | Fine Bubble Flexible Membrane and Tube Diffusers<br>Baffle Walls   |

### **Package & Complete Plants**

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|-----------------------|---|
| Aqua Aerobic Systems: | SBR (Sequencing Batch Reactors), MSBR (Modified Sequencing Batch Reactor), Multiple Barrier Membrane System   |
| USFilter Envirex:     | Cannibal Solids Reduction Process, SBC (Submerged Biological Contactor), RBC (Rotating Biological Contactor), VRL (Vertical Loop Reactors), VertiCel Aeration System,   |
| USFilter Davco:       | Field Erected Carbon Steel, Galvanized Steel, Stainless Steel or Fiberglass, Treatment Plants available with every type of modern process technology, and in a variety of proprietary configurations, including single path and unique dual path designs, RBC (Rotating Biological Contactor), SBR (Sequencing Batch Reactors), Oxidation Ditches |

### **Filtration**

|                                       |  |
|---------------------------------------|--|
| Aqua Aerobic Systems:                 | Cloth Media Filters (Disk and Diamond), Concrete & Steel Traveling Bridge Filters, Complete Rebuilds   |
| USFilter Envirex:                     | Microscreens, SmartBNR Process Control System  |
| USFilter Davco:                       | Denitrification Filters, Continuous Backwash Filters, Concrete & Steel Traveling Bridge, Steel Package Concrete Basins (Retrofit), Complete Rebuilds |
| Gardner Denver:<br>(Hoffman & Lamson) | Centrifugal Blowers and Controls   |

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|---|---|
| Gardner Denver:<br>(AeroFlow and TurboTron) | Single Stage and Regenerative Blowers and Controls  |
| Revere Controls:                            | Blower Controls   |
| EBARA International:                        | Submersible: Non-Clog, Vortex, Grinder, Propeller, all S.S. Non-Clog and Vortex, and Sewage, Effluent, Sump & Drainage Pumps;<br>Dry Pit Submersible Non-Clog Sewage Pumps<br>All Stainless Steel: Centrifugal End Suction, Self Priming, Stacked Diffuser, Multistage, High Pressure Water Booster Pumps |
| Fluid Dynamics:                             | Liquid & Dry Polymer Feed Systems   |
| USFilter Davis EMU:                         | Dry & Wet Pit Wastewater Submersible, Propeller, Screw, Vortex, Vortex Grit, Submersible Mixers, Contractor   |
| Kruger:                                     | Biostyr, a high rate upflow submerged media biologically aerated filter (BAF). Operational Biostyr sites now achieve a wide spectrum of effluent performance ranging from carbon (COD and BOD) reduction to full nitrification and de-nitrification.  |

### **Thickening, Dewatering & Biosolids Processing & Handling**

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| Fluid Dynamics:          | Liquid & Dry Polymer Feed Equipment  |
| Komline Sanderson:       | Gravity Belt Thickeners, Belt Filter Presses, Paddle Dryers, Vacuum, Filter Presses & Plunger Pumps                        |
| Watson Marlow Bredel:    | Sludge and Chemical Feed Pumps (Tube and Hose Type)  |
| USFilter Asdor:          | Steel Conveyors, Truck Loading Station, Biosolids Storage Hoppers & Silos  |
| Neptune:                 | Liquid Polymer Feed Equipment, Chemical Metering Pumps   |
| Netzsch:                 | Progressing Cavity & Rotary Lobe Pumps   |
| Onyx Valve:              | Pinch Valves & Pressure Sensors  |
| JWC Environmental:       | Sludge Grinders  |
| Flottweg:                | Centrifuge   |
| USFilter Davis Products: | Sludge Dryers, Thickeners Clarifiers   |
| Hayward Gordon:          | Solids Handling Pumps  |
| McCrometer:              | Mag-Meter Flowmeters   |
| Neptune:                 | Chemical & Liquid Polymer Feed Equipment   |
| USFilter DSG:            | Gravity Belt Thickeners, Belt Filter Presses, Filter Presses, Rotary Drum Thickeners, Centrifuge, Dryers, Rams Screw Press |
| Columbian TecTank:       | Sludge Holding Tanks   |
| USFilter Envirex:        | Gravity Thickeners, DAF (Dissolved Air Flootation), Float-Treat Thickeners   |

### **Clarification & Separation**

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| USFilter Envirex: | Metallic and Non-Metallic Chain & Scraper Collector, Chain & Scraper Drive Assemblies, Cross Collectors, Wood & Fiberglass Flights, Flight Monitoring Systems, Scum Pipes, Surface Skimmers, Folded Flow DAF (Dissolved Air Flootation) Separator, DAF (Dissolved Air Flootation) Separator, Tow-Bro & |
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| JWC Environmental: | Rim-Flo Clarifiers, Rim-Center Feed Scraper Clarifier, Circular Clarifiers, Clarifier Drives, Secondary Clarifiers, Chain & Scraper Mechanism Retrofits, Rim-Flo/Tow-Bro Secondary Clarifier, Circular Scraper Collector, Spiral Scraper Type Clarifiers, Telescopic Sludge Valve |
| USFilter Davco:    | Scum Grinders   |
| USFilter Davco:    | Circular DAF (Dissolved Air Flootation), Conventional Modular Steel Clarifier, Primary & Secondary Clarifiers, Parallel Plate Separator   |
| EnviroNetics:      | Baffle Walls  |

### **Digestion & Digester Recirculation**

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| Kruger:                                     | BioPasteur is an extremely small-footprint process that can easily be placed ahead of an existing anaerobic digester system for the benefit of reducing pathogens to Class A levels |
| Gardner Denver:                             | Centrifugal Blowers and Controls  |
| Watson Marlow Bredel:<br>(Hoffman & Lamson) | Sludge Feed Pumps (Tube and Hose Type)  |
| Gardner Denver:<br>(AeroFlow and TurboTron) | Single Stage and Regenerative Blowers and Controls  |
| Revere Controls:                            | Blower Controls   |
| Komline Sanderson:                          | Plunger Pumps   |
| JWC Environmental:                          | Grinders  |
| USFilter Envirex:                           | Heat Exchangers, Combination Heater/Heat Exchanger, Digester Gasholders, Gas Mixing, Gas Safety Equipment, Digester Covers  |
| Columbian TecTank:                          | Digester Tanks & Covers   |
| Hayward Gordon:                             | Chopper, Grit, Recessed Impeller, Screw Centrifugal, Vertical Cantilever, Vertical Bearing, Solids Handling, Submersible.   |
| Netzsch:                                    | Progressing Cavity & Rotary Lobe Pumps  |
| Onyx Valve:                                 | Pinch Valves & Pressure Sensors   |
| EnviroNetics:                               | Baffle Walls  |

### **Odor & Corrosion Control**

|                            |   |
|----------------------------|---|
| USFilter RJ Environmental: | Conventional Carbon (not skid mounted), Conventional Packed Towers, Emergency Vapor Scrubbers, Lo/Pro Packaged Systems, Biological Odor Control Systems, Modular Carbon Adsorbers |
| USFilter Davis Products:   | Bioxide-AQ Odor and Corrosion Control   |
| Watson Marlow Bredel:      | Chemical Feed Pumps (Tube and Hose Type)  |
| Neptune:                   | Chemical Metering Pumps (Diaphragm & Hydraulically Actuated Diaphragm)  |