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ENGINEERING DATA SHEET: VALUE-LOOP SERIES



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MODEL – VALUE LOOP

Applications:

WATER SOLUBLE CLEANING:

REsys Value-loop is designed to recycle 100% of the effluent exiting a PCB cleaner operating with deionized water only. In theory, the only water lost is from drag-out into the drying section and evaporation losses up the ventilation stack.

CHEMISTRY CLEANING:

In a Chemistry Cleaning process 3 waste streams exist. The wash bath is continuously recirculates and is only replaced when soil levels in the chemistry reach a saturation point. This exhausted chemistry is typically barreled up and hauled off under manifest. The 2nd waste stream is the chemical isolation rinse (C/I); it cannot be recycled through the Value-loop. The C/I is typically diverted to drain (treatment may be required to meet local municipal codes), or evaporated. The 3rd waste stream is the rinse water overflow. Value-loop is designed to recycle the rinse water overflow. The effectiveness of the Value-loop is dependent on the PCB cleaning system employed. A state-of-the-art PCB cleaning system will improve the cost effectiveness of the Value-loop.

Standard Key Features:

- Extrude aluminum frame: Integrated polypropylene storage tank
- 1.0 HP Stainless Steel Variable Frequency Drive Multi-Stage Pump
- Back Pressure Regulator for consistent system pressures
- Isolation valves to simplify pump removal and filter replacement
- Dual 4.5" x 10" High Temperature Cartridge Filter Housings
- Filter Inlet / Outlet Pressure Transducers
- High temperature CPVC plumbing
- Pneumatic connection to assist in de-watering the ion exchange bottles to simplify routine replacement

Control System Features:

- Full Color Touch Screen: Operation screen, alarm identification, maintenance
- Digital Resistivity Monitor with programmable set point and low water quality alarm (audible and system shut-down).
- High Level Protection
 - Audible Alarm
 - Overflow Weir (can be plugged if no floor drain is available)
 - High Level Actuator Valve for Make-up Water Supply (Battery Back-up)
- Digital Output Flow Transducer
- Digital Pump Protection By-pass Flow Transducer
- UL Listed 508 Control Panel
- Solid State Proximity Sensor located on Sight Tube (Level sensor heights easily adjusted)
- Automatic Water Level Make Up Solenoid
- Alarm output (closed contacts) to connect with facilities alarm systems
- Alarm Input (closed contacts) receives signal from external source to simulate alarm situation

- Hose Break Pressure Switch with Automatic System Shut Down
- Integrated polypropylene spill containment
- Leak detection sensor
- LED Light Tower

Options and Upgrades:

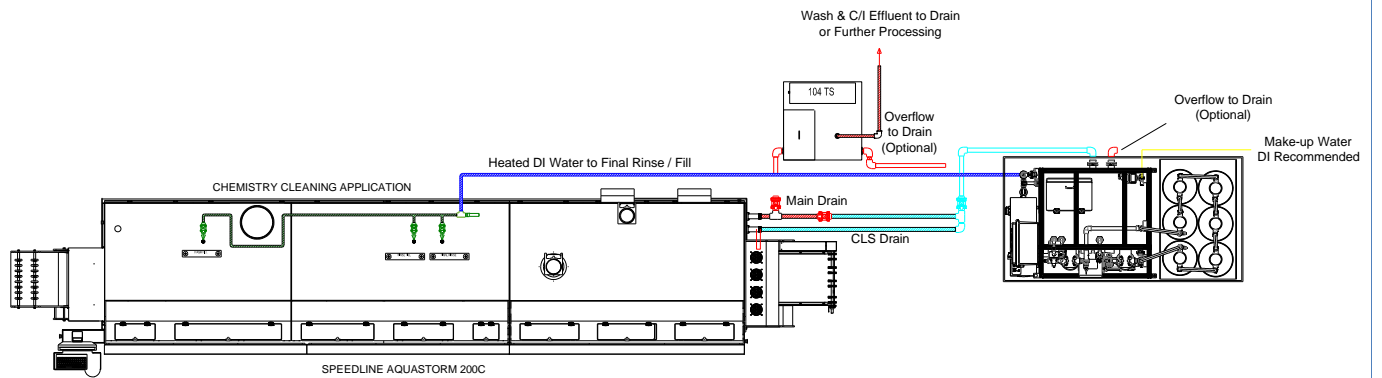
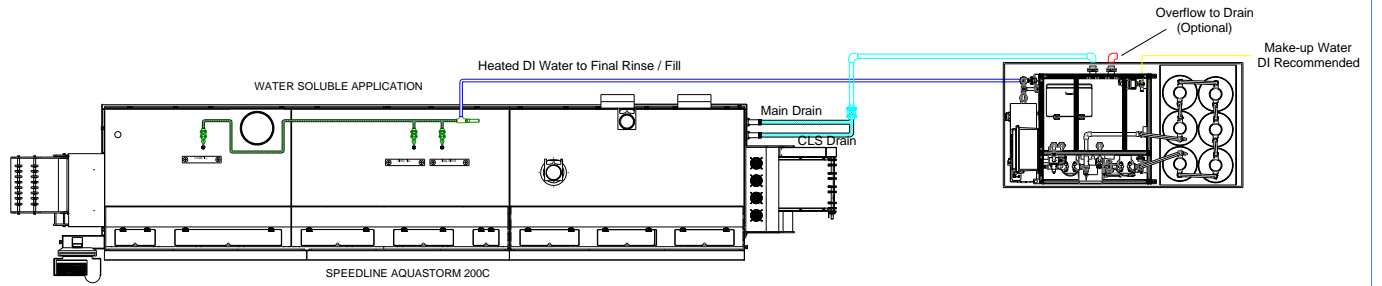
- In-Line Booster Heater (30 kW, 45 kW)
 - Digital Temperature Controller (PID)
 - Solid State Relays
 - Stainless Steel Heating Vessel
 - In-Line Flow Switch
 - Over Temperature/Pressure Protection
- Braided stainless steel hose (interface with quick disconnect fittings)

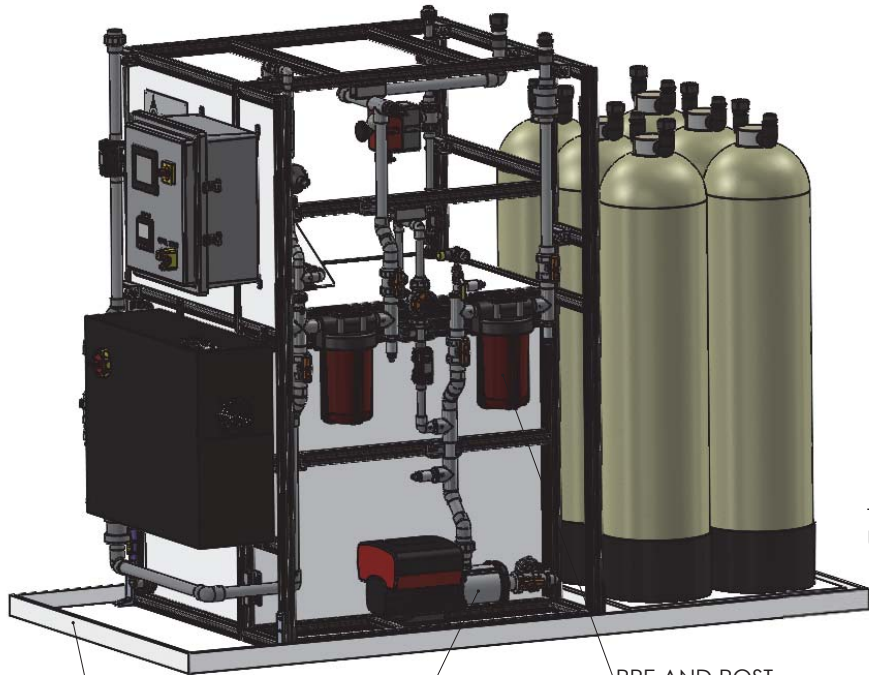
SPECIFICATIONS

- Dimensions: 92" (L) x 48" (W) x 72" (H)
- Tank Capacity: 82 Gallons
- Flow Rate: 0 – 8 GPM
- Output Pressure: 40 PSI
- Proximity: Gravity fed from Cleaning system (15 linear feet from drain connection)
- Water Quality: Up to 18 Meg-Ohm water *(Dependent on Ion Exchange Bottle Configuration)*
- Power: 480 VAC, 3 Phase, 60 Hz (50 Amp) *(with optional 30 kW Booster Heater)*
480 VAC, 3 Phase 60 Hz (73 Amp) *(with optional 45 kW Booster Heater)*
- Weight Dry: 465 lbs (Approximately, depends on options)
- Weight Full: 1145 lbs (Approximately, depends on options)
- Shipping Weight: 625 lbs (Approximately, depends on options)
- Shipping Dimensions:

INSTALLATION DIAGRAMS:

Value Loop shown as typically installed with the Speedline Aquastorm 200C





VFD DELIVERY PUMP

PRE AND POST MEDIA HIGH TEMP FILTER HOUSINGS

FULL SYSTEM SPILL CONTAINMENT WITH LEAK DETECTION SENSOR

ULTRASONIC FLOW SENSOR

INLINE BOOSTER HEATER (30 - 54 kW)

TOUCH SCREEN USER INTERFACE

HIGH LEVEL FACILITIES SHUT OFF ACTUATOR

2021 VALUELOOP

1.5" UNION - INLET
 1.5" UNION - OVERFLOW TO DRAIN
 1" UNION - HEATED DI TO PROCESS
 .5" UNION - MAKEUP INLET

