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## ENGINEERING DATA SHEET:

# HXS – HEAT EXCHANGE / DI WATER HEATING SYSTEM



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## *HXS - HEAT EXCHANGE / DI WATER HEATING SYSTEM*

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### **Applications:**

REsys HXS - Heat Exchange / DI Water Heating System (HXS) is an elegant means to take ambient DI water and heat it to the final rinse set point temperature in an open loop application. Through the use of a stainless steel heat exchanger, drain bound thermal energy is transferred into the final rinse water. The heat exchanger extracts a significant portion of the heat energy from the drain bound water and transfers it to the DI water heading for the final rinse. The heat exchanger essentially pre-heats the DI water. After the heat exchanger the DI water enters an integrated DI water booster heater to provide the additional thermal energy required to match the final rinse water set point temperature.

The HXS functions as a transfer station, and point of use DI water booster heater. Everything is integrated into a neat, small footprint. Under normal operating conditions the energy consumption is 40% of a typical in-line DI water booster heater.

### **Standard Key Features:**

- White Polypropylene Cabinet: Integrated storage tank
- .5 HP Stainless Steel Multi-Stage Pump
- Isolation valves to simplify pump removal and filter replacement
- Variable pumping rates to maximize heat exchanger efficiency
- 4.5" x 10" High Temperature Cartridge Filter Housings
- 0 – 10 GPM flow meter
- Filter Inlet / Outlet Pressure Gauges
- High temperature CPVC plumbing

### **Control System Features:**

- Illuminated Green Rotational ON/OFF switch
- High Level Protection
  - Audible Alarm
  - Overflow Weir (can be plugged if no floor drain is available)
- Stainless steel analog control panel
- UL Listed 508 Control Panel
- Stainless steel float sensors
- Liquid level sensor for leak detection in pump and filter chamber
- Alarm output (closed contacts) to connect with facilities alarm systems
- Alarm Input (closed contacts) receives signal from external source to simulate alarm situation

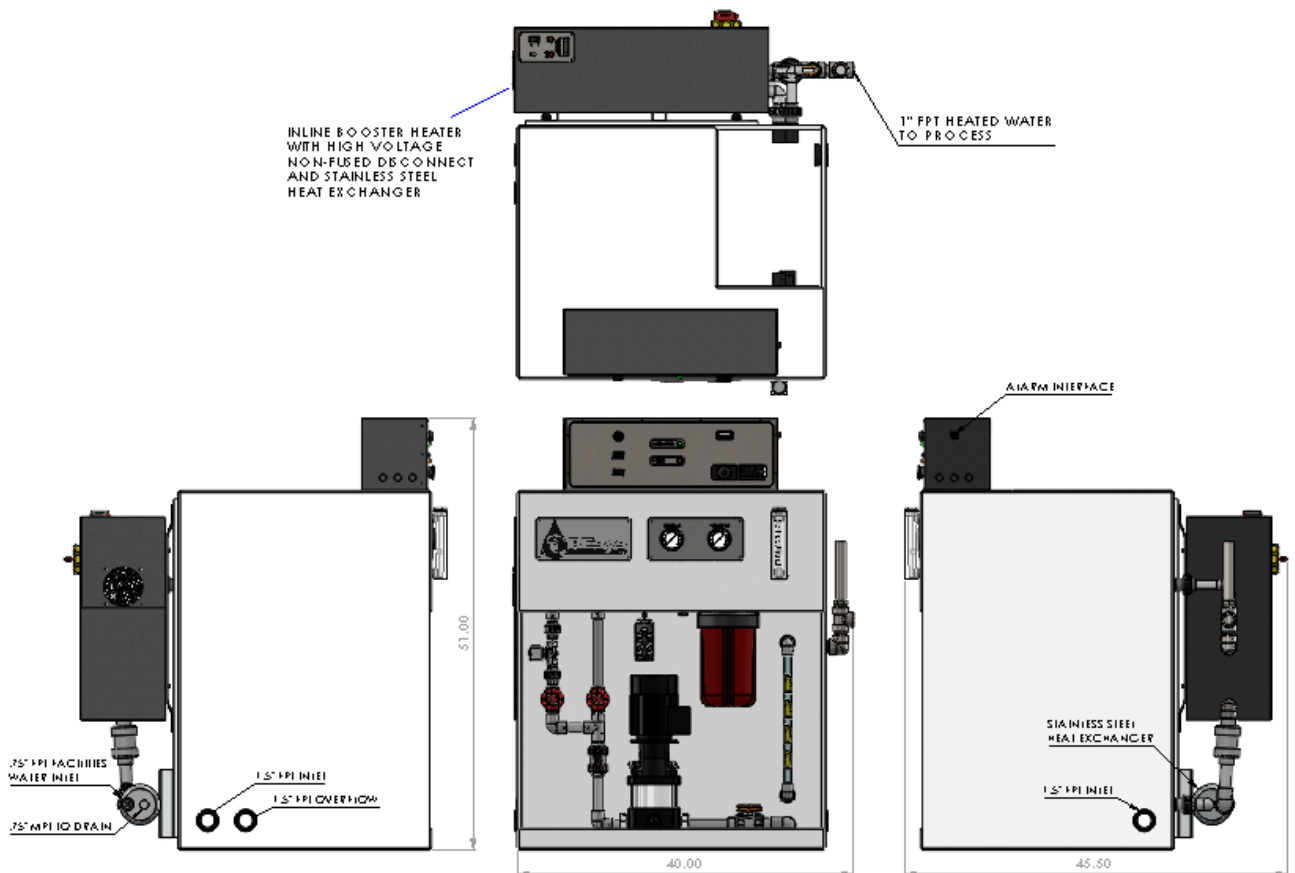
### **Integrated In-line DI Water Booster Heater (30, 45, and 54 kW):**

- Digital Temperature Controller (PID)
- Solid State Relays
- Stainless Steel Heating Vessel
- In-Line Flow Switch
- Over Temperature/Pressure Protection

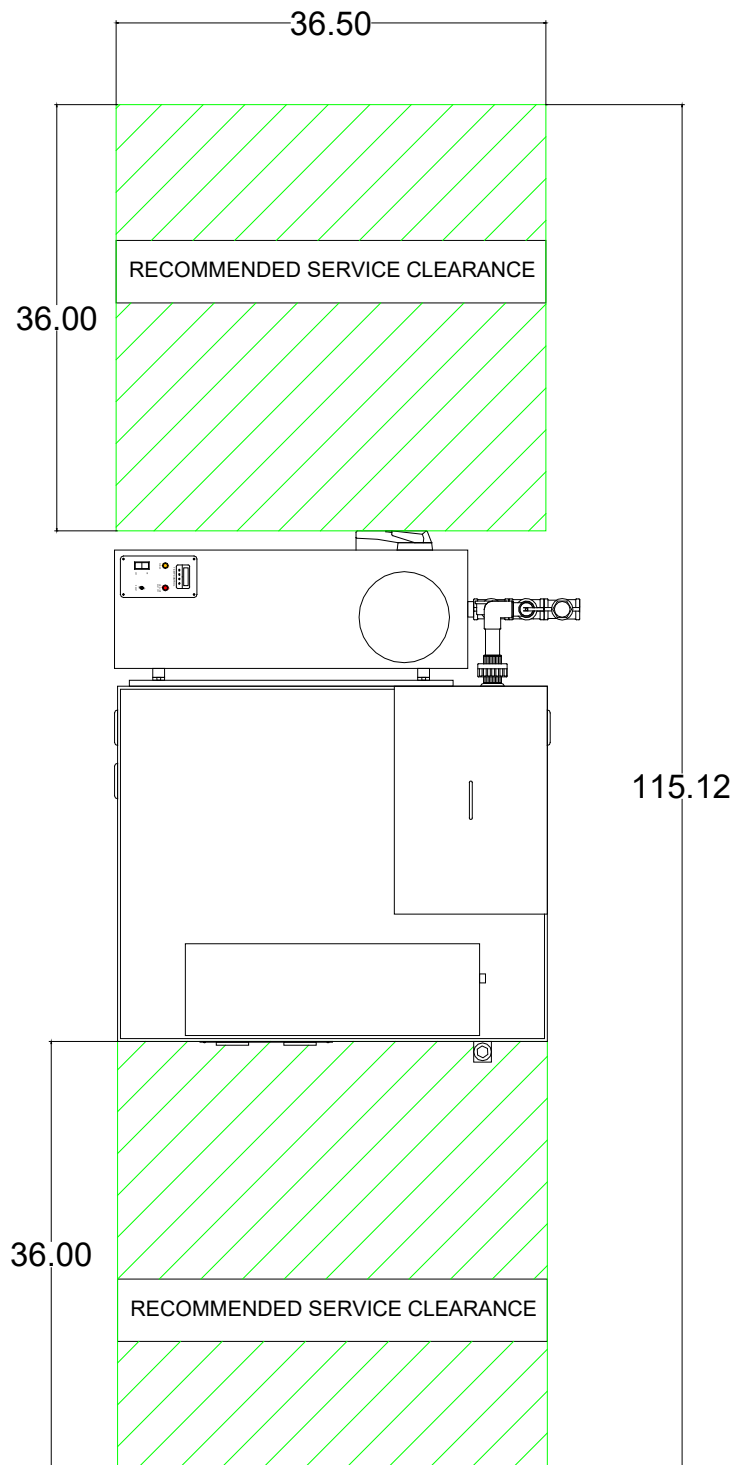
## SPECIFICATIONS

- Dimensions No Heater: 36.5" x 30" x 46.5"
- Tank Capacity: 25 Gallons
- Flow Rate: 0 – 10 GPM
- Output Pressure: 70 PSI
- Pressure Drop: 3 psi (across heater exchanger and DI water booster heater)
- Proximity: Gravity fed from Cleaning system (15 linear feet from drain connection)
- Power:
  - 480 VAC, 3 Phase, 60 Hz
  - 50 Amp w/30 kW Heater
  - 73 Amp w/45 kW Heater
  - 96 Amp w/54 kW Heater
- Weight Dry: 465 lbs
- Weight Full: 845 lbs (Approximately, depends on options)
- Shipping Weight: 625 lbs (Approximately, depends on options)
- Shipping Dimensions: 50.0" x 56.0" x 59.0

## DIMENSIONS: MODEL HXS - HEAT EXCHANGE / DI WATER HEATING SYSTEM

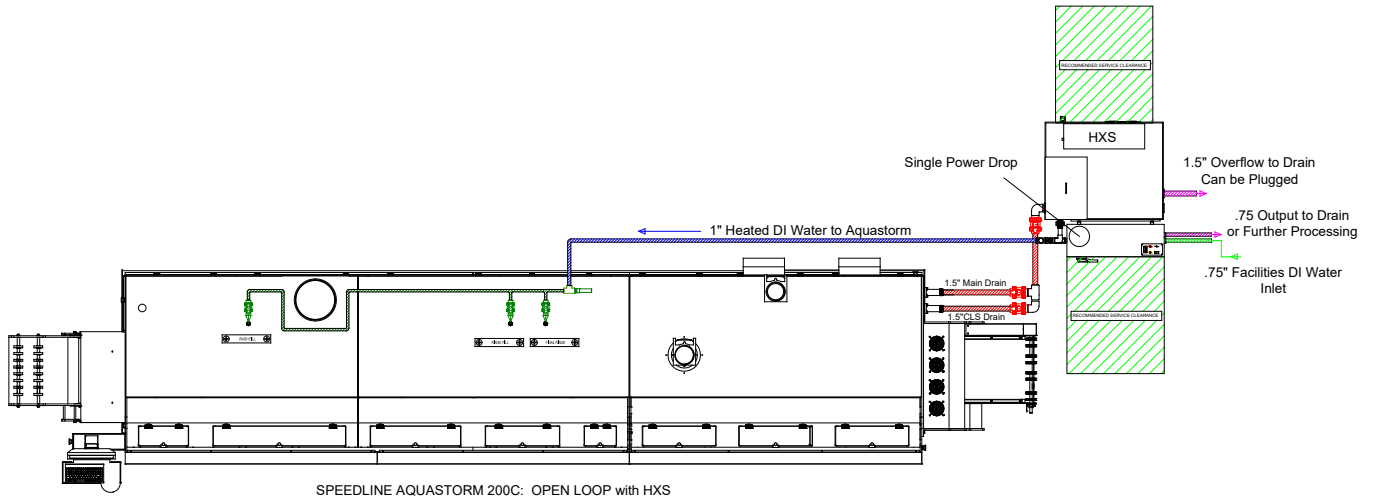


**INSTALLATION DIMENSIONS: MODEL HXS - HEAT EXCHANGE / DI WATER HEATING SYSTEM**



**INSTALLATION DIAGRAMS:**

HXS Installed with Aquastorm 200C Operating in an Open Loop Mode:



HXS Installed with Aquastorm 200C Operating in an Open Loop Mode: Blown Up

