

CUSTOMER: \_\_\_\_\_

REFERENCE: \_\_\_\_\_

## HS-450 RO WATER TREATMENT SYSTEM BY WATTS® PURE WATER

### PRODUCT SPECIFICATION

#### APPLICATION

Today's ever-changing water quality issues demand that point-of-use water treatment systems become an essential component of equipment applications. Because municipal water treatment facilities are designed to reduce mainly biological contaminants, they do not decrease contaminants that affect the performance of water dependent equipment. The Watts HS-Series water treatment systems are designed specifically for use on applications found throughout the healthcare industry, such as point-of-use steam generators, instrument and cart washers. When used as suggested by the manufacturer, The Watts HS-Series water treatment systems significantly reduce or eliminate boiler scaling and instrument spotting. Not intended for drinking water.

#### BENEFITS

- Extends equipment life
- Provides "spot-free" rinse water at a fraction of the cost of Deionization (DI) water
- Reduces or eliminates boiler scale
- Increases boiler heating element life and efficiency

#### EQUIPMENT FEATURES

- Complete pre-treatment
- Sediment filtration removes dirt, sand and rust
- KDF media filter reduces iron
- Carbon filtration removes chlorine and other VOC's
- TFC reverse osmosis membrane reduces up to 99% of TDS
- Complete post-treatment
- pH adjusted
- TDS balanced to ensure proper conductivity of water
- 1-year warranty
- Factory performance tested and sanitized
- UL listed controls

#### SYSTEM PERFORMANCE

When used as suggested by the manufacturer, the Watts HS-Series water treatment systems eliminate up to 99% of the following contaminants:

- Total Dissolved Solids (TDS)
- Volatile Organic Chemicals
- Hardness (CaCO<sub>3</sub>)
- Chlorine Additives



#### MODEL SELECTION

- Float Tank (#61301606330)
- Pressure Tank (#61301605523)

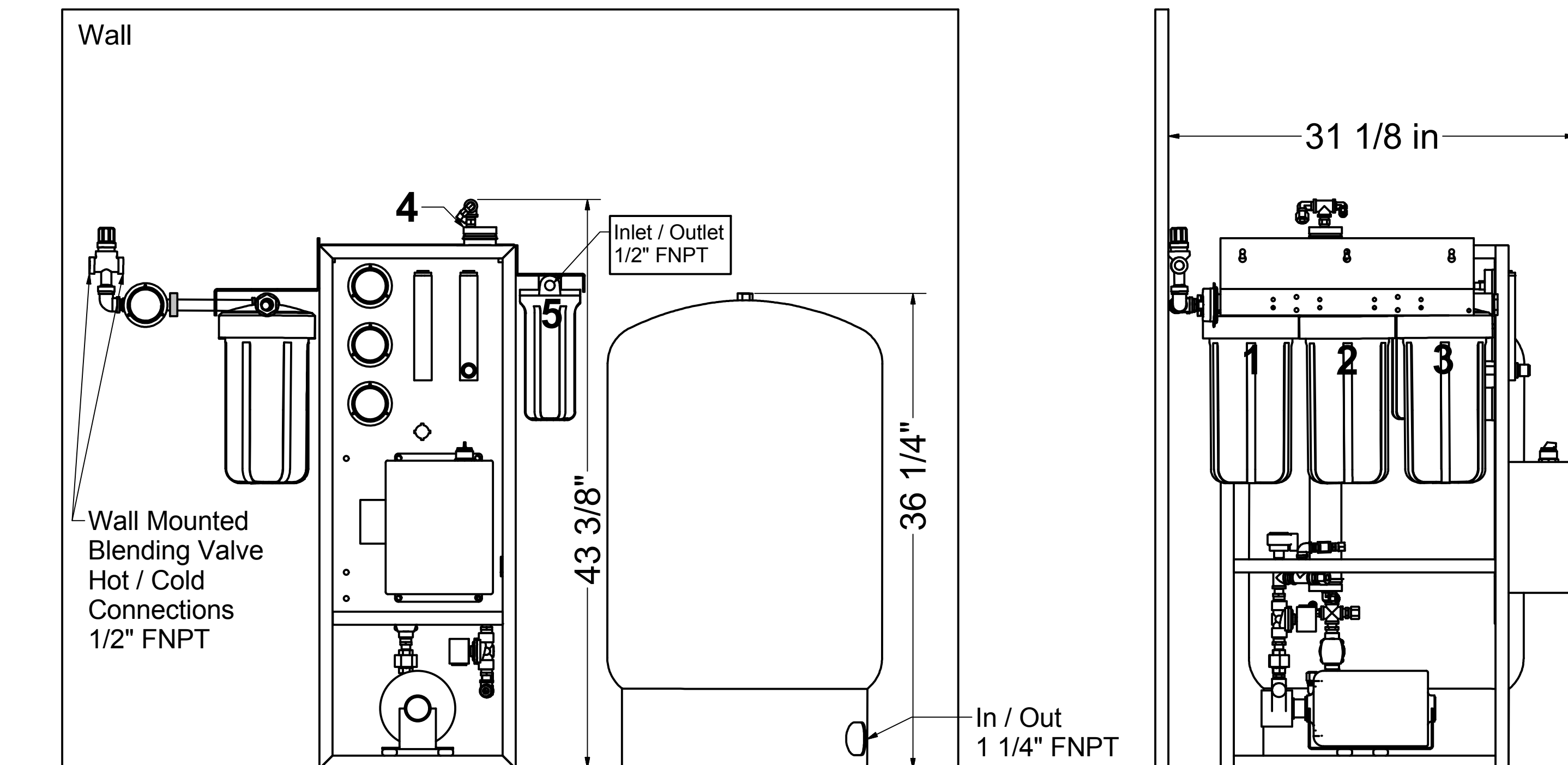
#### QUALITY STATEMENT

Confidence in the Getinge Group is the most important quality criterion. This must be the hallmark of all of our external and internal commitments, activities and products. Products and services supplied by Getinge must conform to the agreed terms and expectations to ensure recommendations for further business. The achievement of these quality goals is the basis for a continued competitive and successful enterprise.

#### WARRANTY

Watts HS-Series water treatment systems are warranted for one year. Labor for repairs is provided for the first 90 days following equipment installation and start-up. Warranty repairs are performed Monday-Friday from 8:00am-5:00pm, excluding national holidays.

# HS-450 Water Treatment System PT (P/N 61301605523)



## NOTES:

### 1) ELECTRICAL REQUIREMENTS:

• RO System: Standard 115V A/C, 9.6A, 60Hz. (Can be ordered 230V A/C, 6A, 60Hz); Branch Circuit 20 Amp Breaker Required, at service panel.

2) **INLET WATER:** Designed to handle potable water up to 2000 ppm TDS; **Hardness** 14 Grains Max; **Silica** 40 PPM Max; **Iron** < 0.1 PPM; **Turbidity** < 1 NTU; **Silt Density Index (SDI)** < 5; **PH Range** 6 - 8.5; Free Chlorine < 1.0 Pretreatment.

3) **WATER TEMPERATURE:** Min 35°F - Max 100°F (2°F - 38°C). Rated/Operating temperature 77°F (25°C). To be tempered with supplied blending valve.

4) **WATER PRESSURE:** 30 - 75 psig. A 60 psig rated pressure regulator P/N 134033 will be required if over 75 psig. For water hammer, A Watts series 15 Water Hammer Arrester will be required.

5) **CODES:** UL & CUL 508A.

6) **INLET FLOW REQUIREMENTS:** HS-450 ≥ 1 GPM @ 30 - 75 psi.  
7) First year preventative maintenance kit is included P/N 61301605525.

8) **CLEARANCE:** Minimum 18 inches service clearance on sides. Minimum 40 inches service clearance on top.

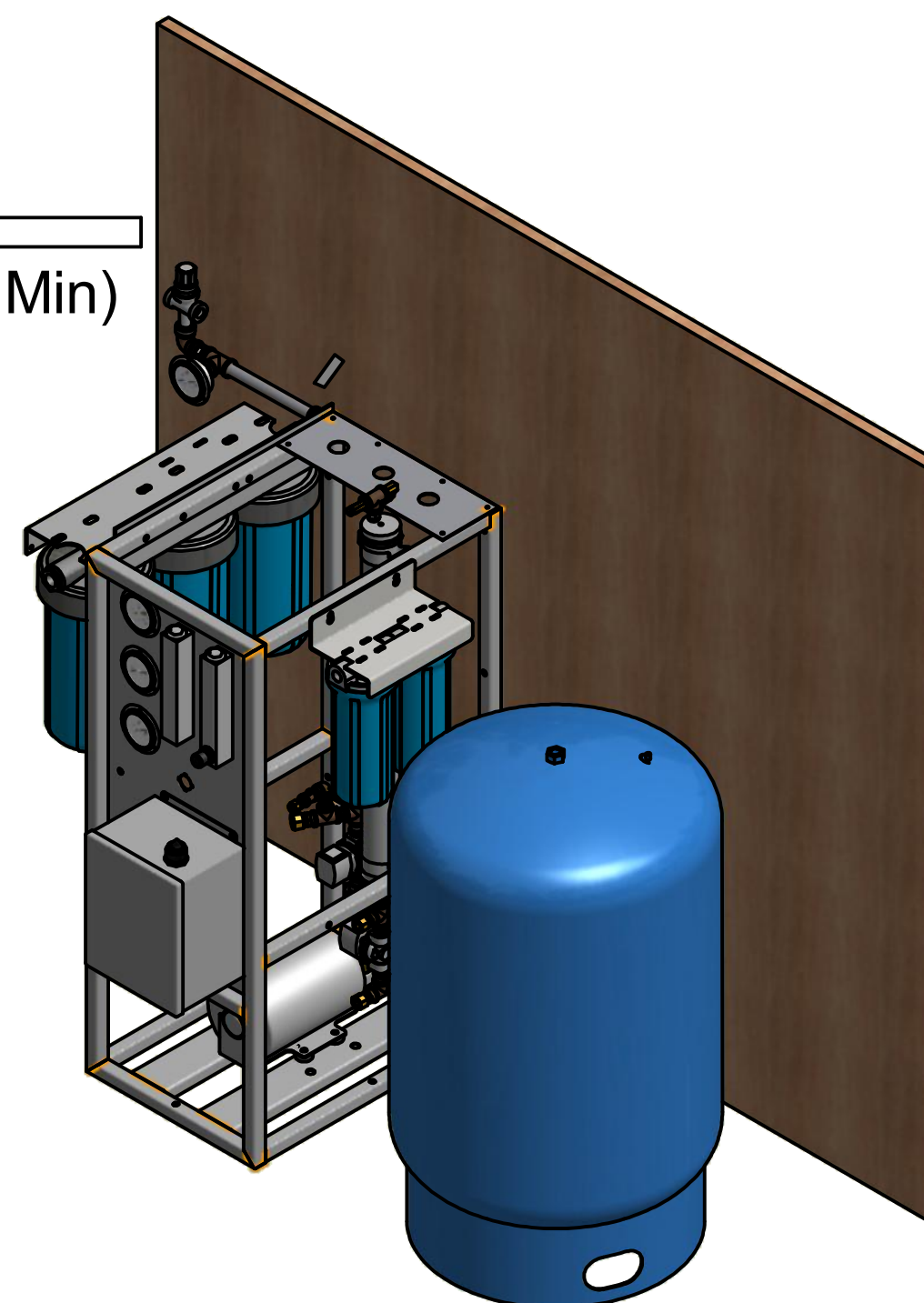
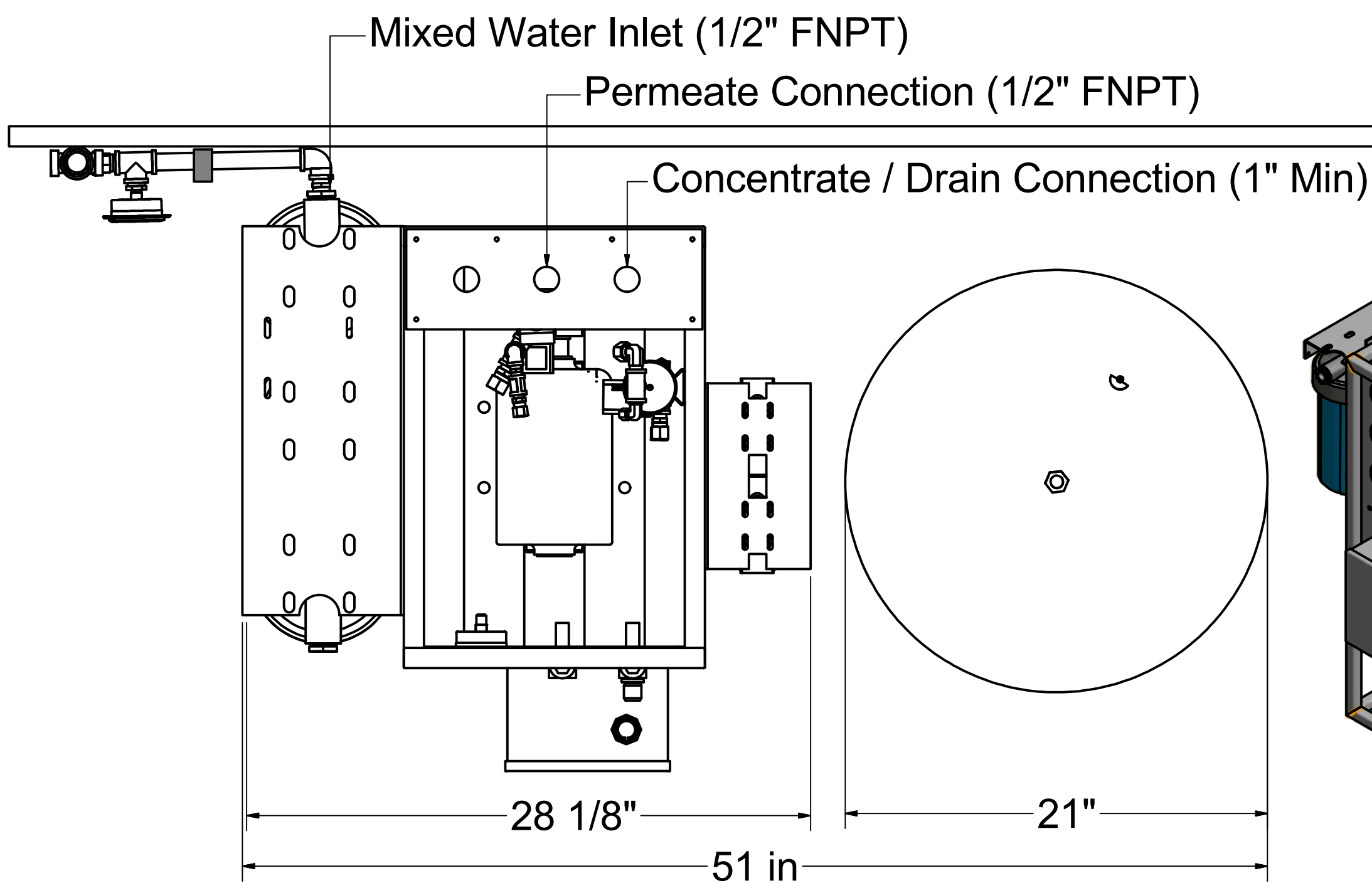
9) **FLOOR SINK DRAIN:** 1-1/2" dia. within 6' of Processor & Tank.

10) **APPROVED PIPING MATERIAL:** Schedule 80 PVC for washer applications and "L" copper for boiler feed applications.

11) **PRE/POST TREATMENT:** #1 Sediment, P/N 61301605460 - Qty 1; #2 GAC/KDF, P/N 61301605458 - Qty 1; #3 Carbonblock, P/N 61301605456 - Qty 1; #5 Post Feeder 2 oz, P/N 61301605938 - Qty 1.

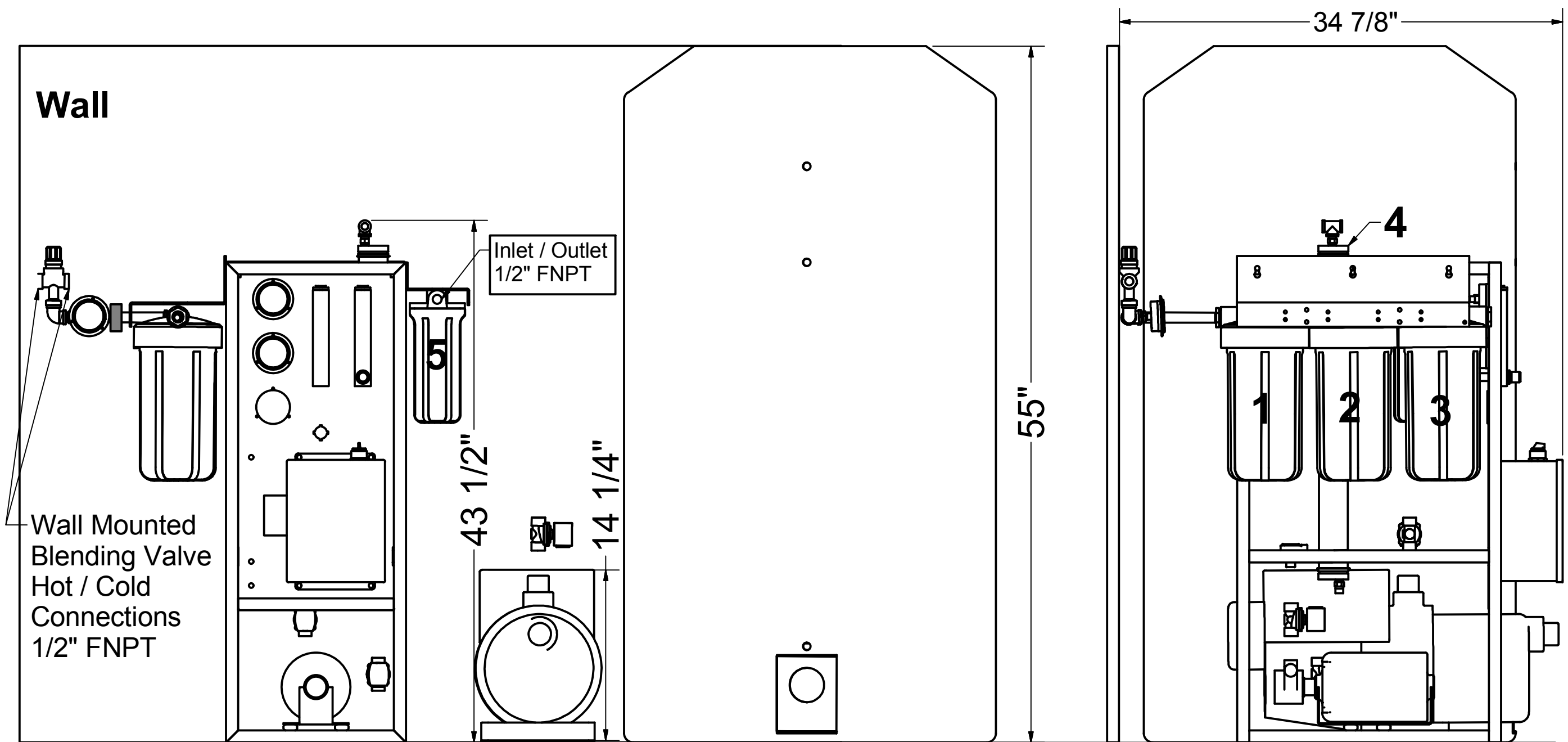
12) **MEMBRANE RECOVERY RATE:** up to 1:1; **Size:** 2" x 26".  
**Replacement:** #4 P/N 61301605535.

13) **PRESSURE TANK SIZE:** 44 Gallon Total Volume (24 Gallons Usable Storage). **Pressure Switch set to:** On @ 40psi Off @ 60psi.





# HS-450 Water Treatment System FT (P/N 61301606330)



## NOTES:

### 1) ELECTRICAL REQUIREMENTS:

• RO System: Standard 115V A/C, 9.6A, 60Hz. (Can be ordered 230V A/C, 6A, 60Hz); Branch Circuit 20 Amp Breaker Required, at service panel.

• Delivery Pump/Motor: 115, 10.0A, 60Hz. (Can be ordered 230V, 4.3A); Branch Circuit 20 Amp Breaker Required, at service panel.

2) **INLET WATER:** Designed to handle potable water up to 2000 ppm TDS; **Hardness** 14 Grains Max; **Silica** 40 PPM Max; **Iron** < 0.1 PPM; **Turbidity** < 1 NTU; **Silt Density Index (SDI)** < 5; **PH Range** 6 - 8.5; Free Chlorine < 1.0 ppm.

3) **WATER TEMPERATURE:** Min 35°F - Max 100°F (2°F - 38°C). Rated/Operating temperature 77°F (25°C). To be tempered with supplied blending valve.

4) **WATER PRESSURE:** 30 - 75 psig. A 60 psig rated pressure regulator P/N 134033 will be required if over 75 psig. For water hammer, A Watts series 15 Water Hammer Arrester will be required.

5) **CODES:** UL & CUL 508A.

6) **INLET FLOW REQUIREMENTS:** HS-450  $\geq$  1 GPM @ 30 - 75 psi.

7) **DELIVERY PUMP FLOW:** 12 GPM @ 36 psi.

8) First year preventative maintenance kit is included P/N 61301605525.

9) **CLEARANCE:** Minimum 18 inches service clearance on sides. Minimum 40 inches service clearance on top.

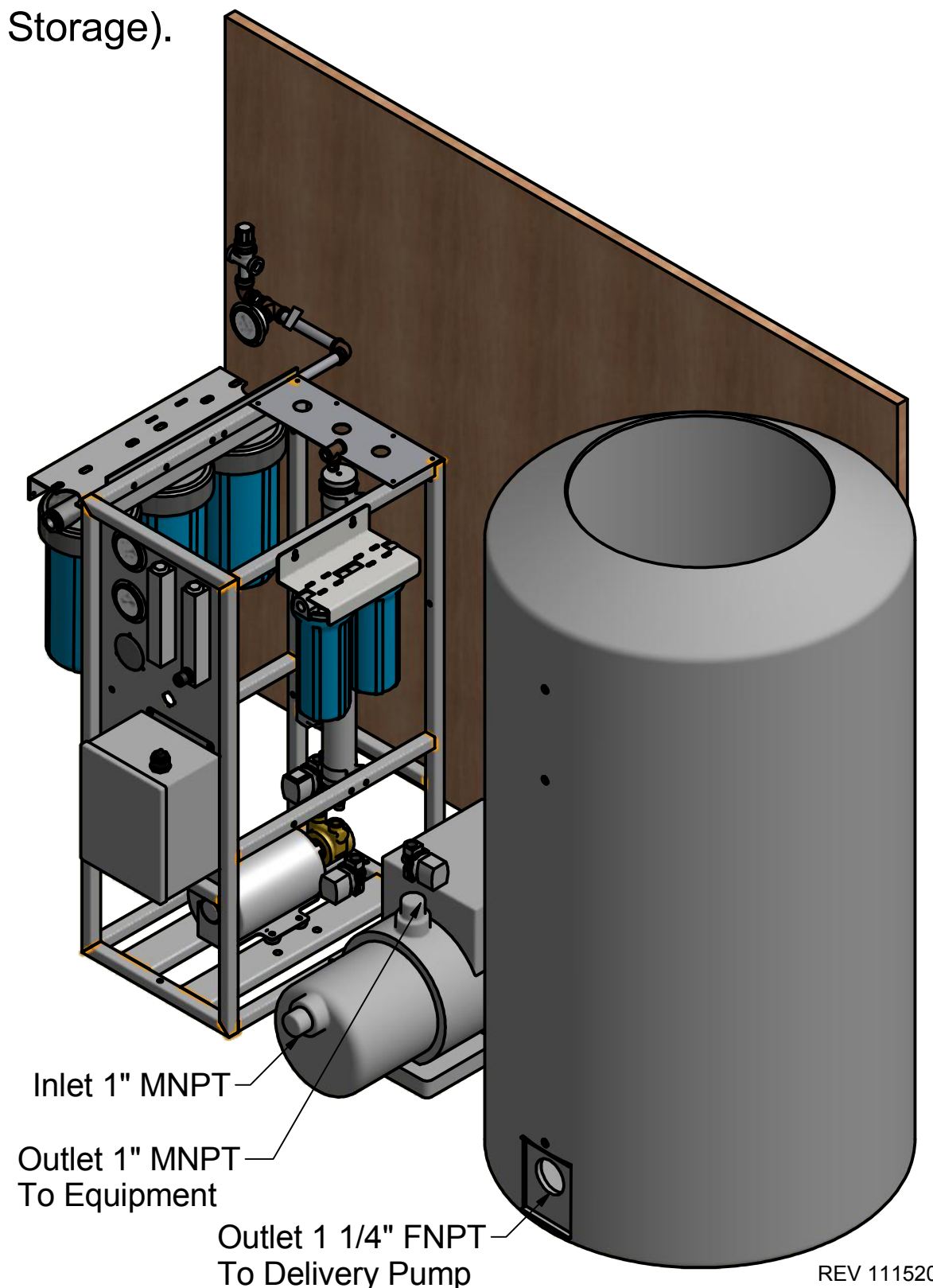
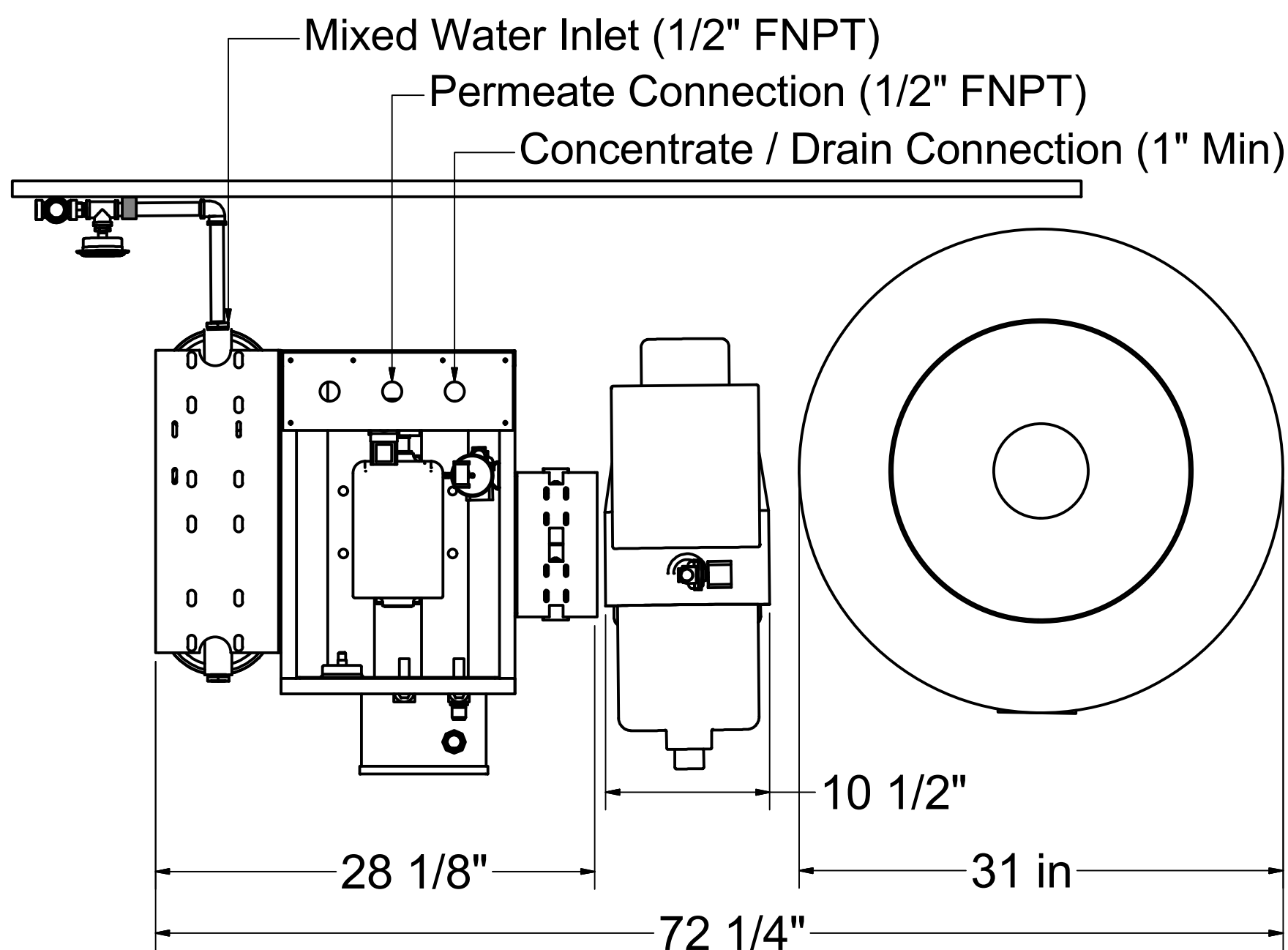
10) **FLOOR SINK DRAIN:** 1-1/2" dia. within 6' of Processor & Tank.

11) **APPROVED PIPING MATERIAL:** Schedule 80 PVC for washer applications and "L" copper for boiler feed applications.

12) **PRE/POST TREATMENT:** #1 Sediment, P/N 61301605460 - Qty 1; #2 GAC/KDF, P/N 61301605458 - Qty 1; #3 Carbonblock, P/N 61301605456 - Qty 1; #5 Post Feeder 2 oz, P/N 61301605938 - Qty 1.

13) **MEMBRANE RECOVERY RATE:** Up to 1:1; **Size:** 2" x 26".  
**Replacement:** #4 P/N 61301605535.

14) **ATMOSPHERIC TANK VOLUME:** 165 Gallon Total Volume (155 Usable Storage).





Getinge is the world's leading provider of solutions for effective cleaning, disinfection and sterilization in the healthcare and life science sectors. We are dedicated to helping our customers provide maximum productivity in the most cost-efficient way. We do this by offering well thought through and customized solutions. This means that we are with our customers all the way from architectural planning and education to traceability and support - with complete solutions, long-term commitment and global presence.

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