

3-Pod 36-Inch Sand Filter

Model/Make: 3 Pod 36" / Yardney IL3624-3A

Product Description

Skid mounted high rate automatic backwashing sand media filter [3 tanks (pods)] designed for general-purpose water filtration of organic and inorganic solids. Powered by 120 V external power supply.

WEIGHTS AND MEASURES

| | | |
|--------------------|-------|--|
| » Capacity: | ..... | 213 – 320 gpm (Normal flow range) 426 gpm (Peak flow) |
| » Design Pressure: | ..... | 100 psi maximum |
| » Temperature: | ..... | Limit to ambient. Consult UR if temperature exceeds 100 degrees. |
| » Filtration: | ..... | Down to 50 microns |
| » Height: | ..... | 6' 5" (overall) |
| » Width: | ..... | 4'-0" |
| » Length: | ..... | 11'-6" (overall) |
| » Weight: | ..... | 1,700 lbs. – equipment only 4,200 lbs. – media only 7,000 lbs. – operational |
| » Backflush: | ..... | 107 gpm, automatic |

OPERATING REQUIREMENTS

| | | |
|-------------------|-------|--|
| » Compressed Air: | ..... | 5 cfm minimum at 60 psi |
| » Sand Media: | ..... | Crushed silica, 0.47MM (#80 grit); 10 cu. ft. per vessel |
| » Gravel Media: | | #3 crushed rock, ½" x ¾"; 4 cu. ft. per vessel |
| » Input Power: | | 120 V AC (customer supplied) |

FEATURES

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| » System Controller: | | Automatic Filter Controller. Flush activation based on elapsed time and/or pressure differential. |
| » Piping: | | Inlet & outlet pipe is 4" A53B, 3/16" wall; weld fittings are A234; flanges are A106. Backflush piping is 4" schedule 40 PVC. |

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| » Press. Gauge: | | 2" face, ¼" NPT bottom connection, stainless steel case, plexiglass lens, brass bourdon tube, 0-100 psi range. |
| » Flowmeter: | ..... | Four-inch propeller type meter, AWWA C704-92 compliant. Instantaneous flowrate indicator and six-digit totalizer. Accuracy is ±2% of reading. Repeatability of 0.25%. Rated at 90-1200 gpm, 150 psi, 160°F. Tube: epoxy-coated carbon steel; Impeller: high-impact plastic. |
| » Butterfly Valves: | ..... | <u>Effluent / Influent:</u> 4" with cast iron body (epoxy coated), EPDM seat, 304 SS stem and aluminum bronze disc. <u>Tank Isolation:</u> 4", grooved ends, EPDM disc coating |
| » Differential Pressure Switch: | ..... | 0-30 psid. Two-inch dial, plated steel case, ±3% accuracy. |
| » Air / Vacuum Release Valve: | ..... | 2" mounted on backwash, influent and effluent lines |
| » Tubing: | ..... | Pressurized – ¼" 304 ss w/ Hoke fittings; Drain - ¼" polypropylene; Vent – schedule 80 PVC |

SURFACE DETAILS

| | | |
|---------------------|-------|-------------------------|
| » Interior Coating: | ..... | 3M Scotchkote 134 |
| » Exterior Coating: | ..... | High Gloss Polyurethane |

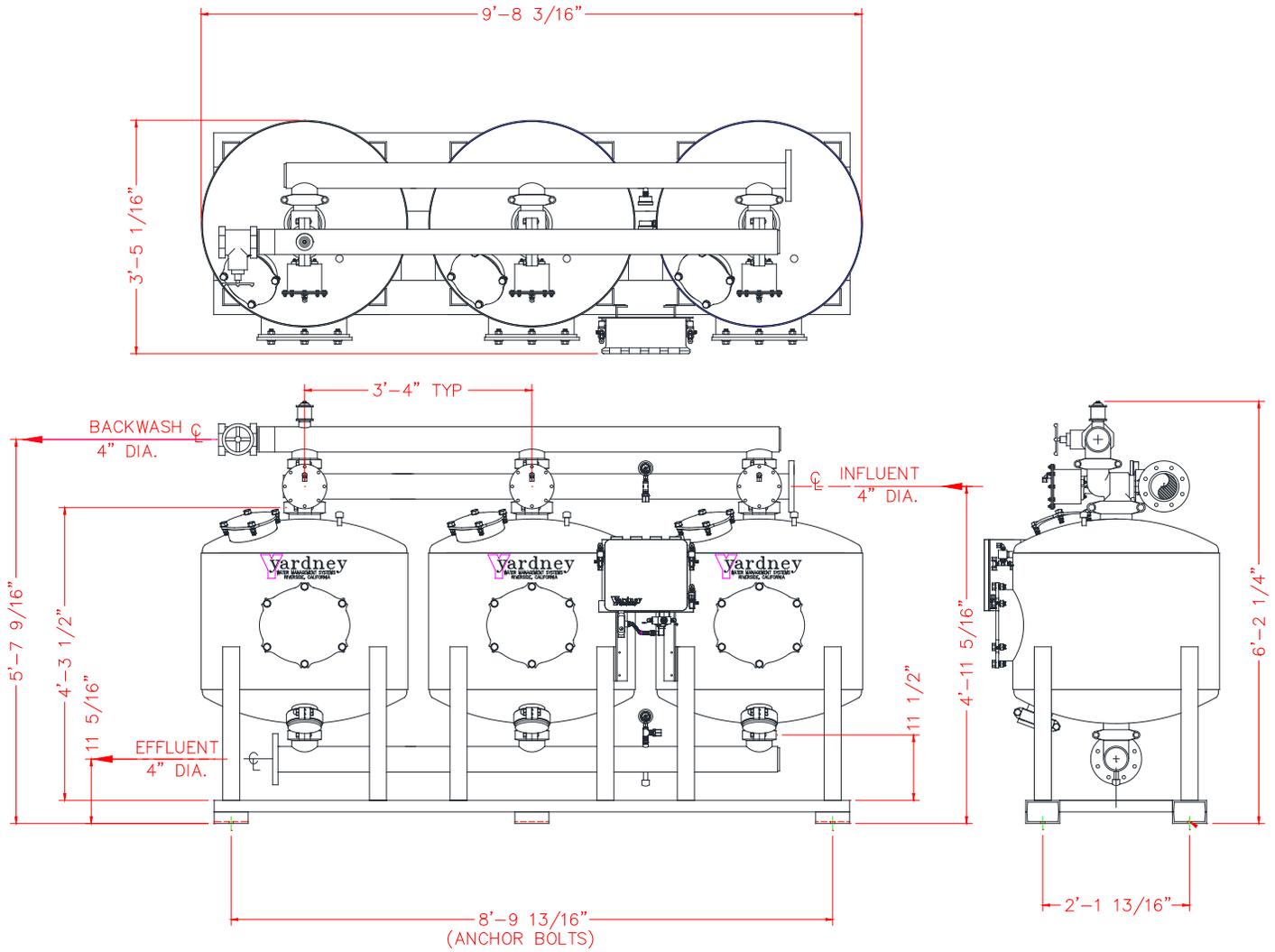
WETTED MATERIALS (for material compatibility check)

| | | |
|---------------------|-------|--|
| Carbon Steel* | ..... | Pod shell and heads; piping; flowmeter |
| 304 Stainless Steel | ..... | Pressurized tubing |
| Cast Iron | ..... | Butterfly valves |
| EPDM | ..... | Butterfly valve seats & disc coating |
| Bronze/Brass | ..... | Ball valves |
| PVC | ..... | Vent tubing |
| 3M Scotchkote 134 | ..... | Vessel lining |

*Theoretically if the vessel has an interior liner, no carbon steel should be exposed to the liquid. However, if there are areas of thin or missing liner, bare carbon steel will be exposed. It is always a good idea to check compatibility of carbon steel even if the vessel interior is lined.

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100 First Stamford Place, Ste 700
Stamford, CT 06902 | USA

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