

PRODUCT DATA SHEET

January, 2007

YARDNEY 3-POD SAND FILTER SYSTEM (IL4824-3AS)

GENERAL INFORMATION

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:	285 – 565 gpm (Normal flow range) 756 gpm (Peak flow)
» Design Pressure:	80 psi maximum
» Temperature:	Limit to ambient. Consult BakerCorp if temperature exceeds 100 degrees.
» Filtration:	Down to 50 microns
» Height:	7'-7" (overall)
» Width:	5'-0"
» Length:	15'-3" (overall); 13'-11" (skid)
» Weight:	3,950 lbs. – equipment only 7,365 lbs. – media only 16,700 lbs. – operational
» Backflush:	240 gpm, automatic

OPERATING REQUIREMENTS

» Compressed Air:	5 cfm minimum at 60 psi
» Sand Media:	Crushed silica, 0.47MM (#80 grit); 21 cu. ft. per vessel
» Gravel Media:	#3 crushed rock, ½" x ¾"; 7 cu. ft. per vessel
» Input Power:	120 V AC (customer supplied)

FEATURES

» System Controller:	Automatic Filter Controller. Flush activation based on elapsed time and/or pressure differential.
» Piping:	Inlet & outlet pipe is 6" A53B, 3/16" wall; weld fittings are A234; flanges are A106. Backflush piping is 4" schedule 40 PVC.

FEATURES – con't

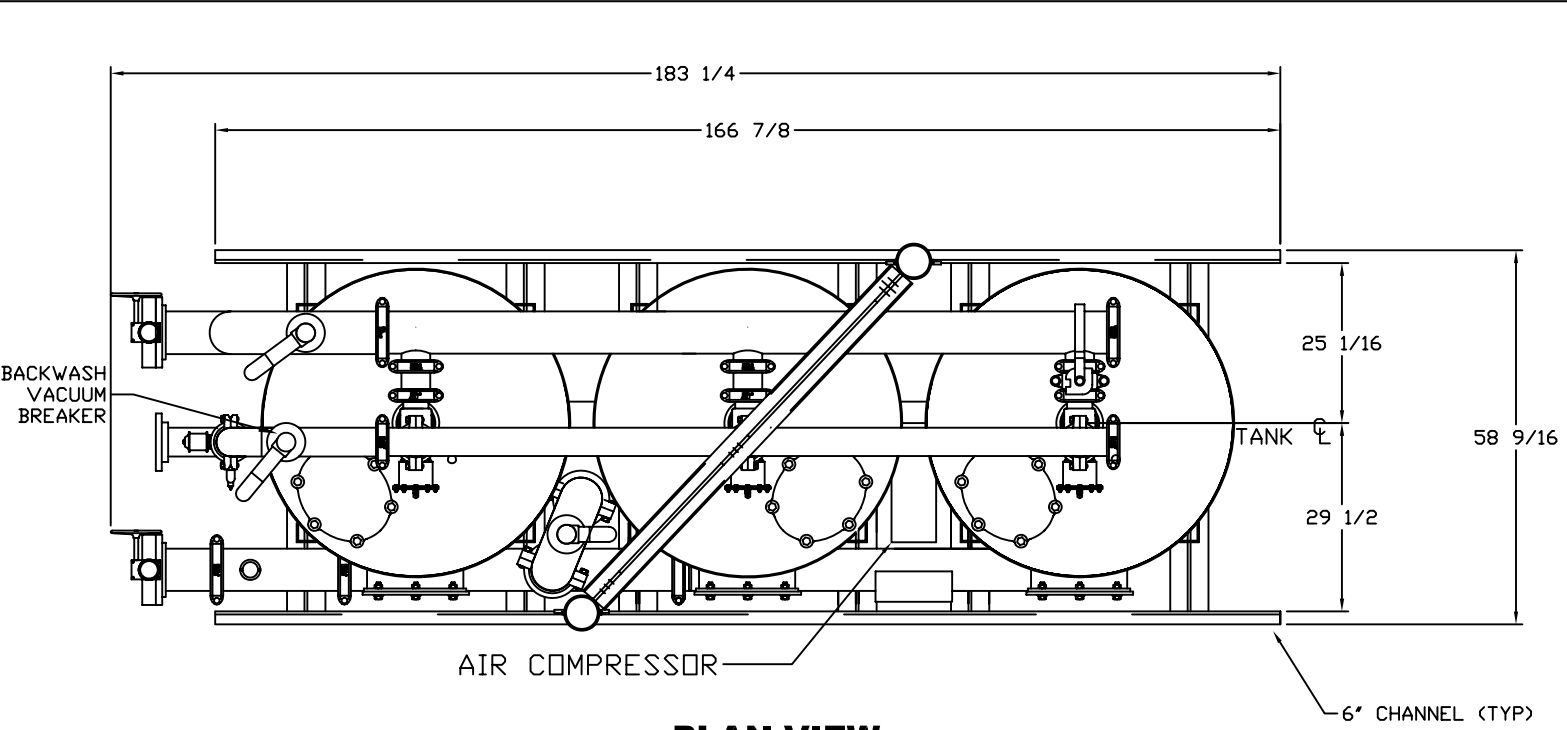
» Press. Gauge:	2" face, ¼" NPT bottom connection, stainless steel case, plexiglass lens, brass bourdon tube, 0-100 psi range.
» Flowmeter:	Six-inch propeller type meter, AWWA C704-92 compliant. Instantaneous flowrate indicator and six-digit totalizer. Accuracy is ±2% of reading. Repeatability of 0.25%. Rated at 90-1200 gpm, 150 psi, 160°F. Tube: epoxy-coated carbon steel; Impeller: high-impact plastic.
» Butterfly Valves:	<u>Effluent / Inluent:</u> 6" 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

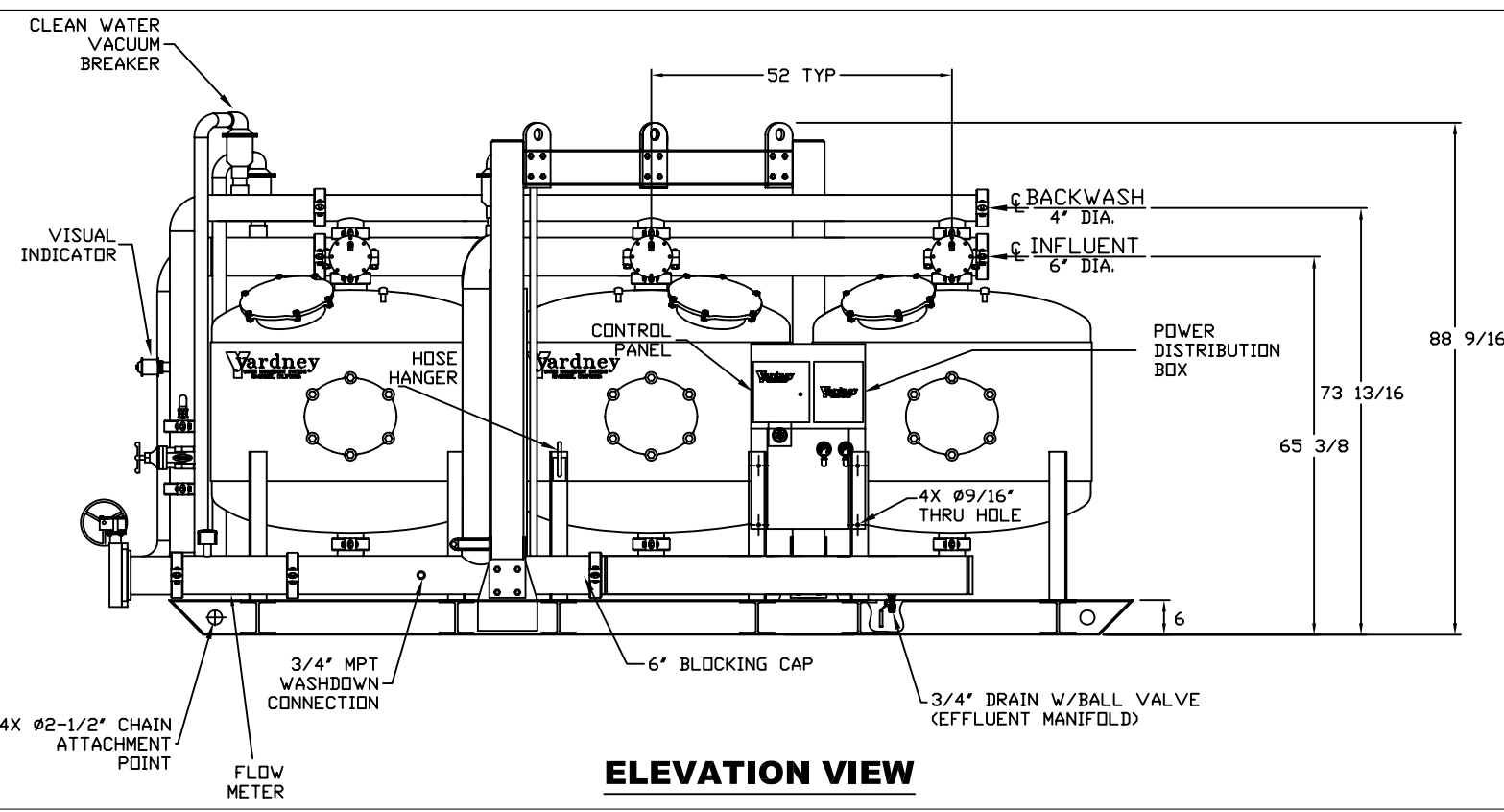
» Interior Coating:	3M Scotchkote 134
» Exterior Coating:	High Gloss Polyurethane

TESTS/CERTIFICATIONS

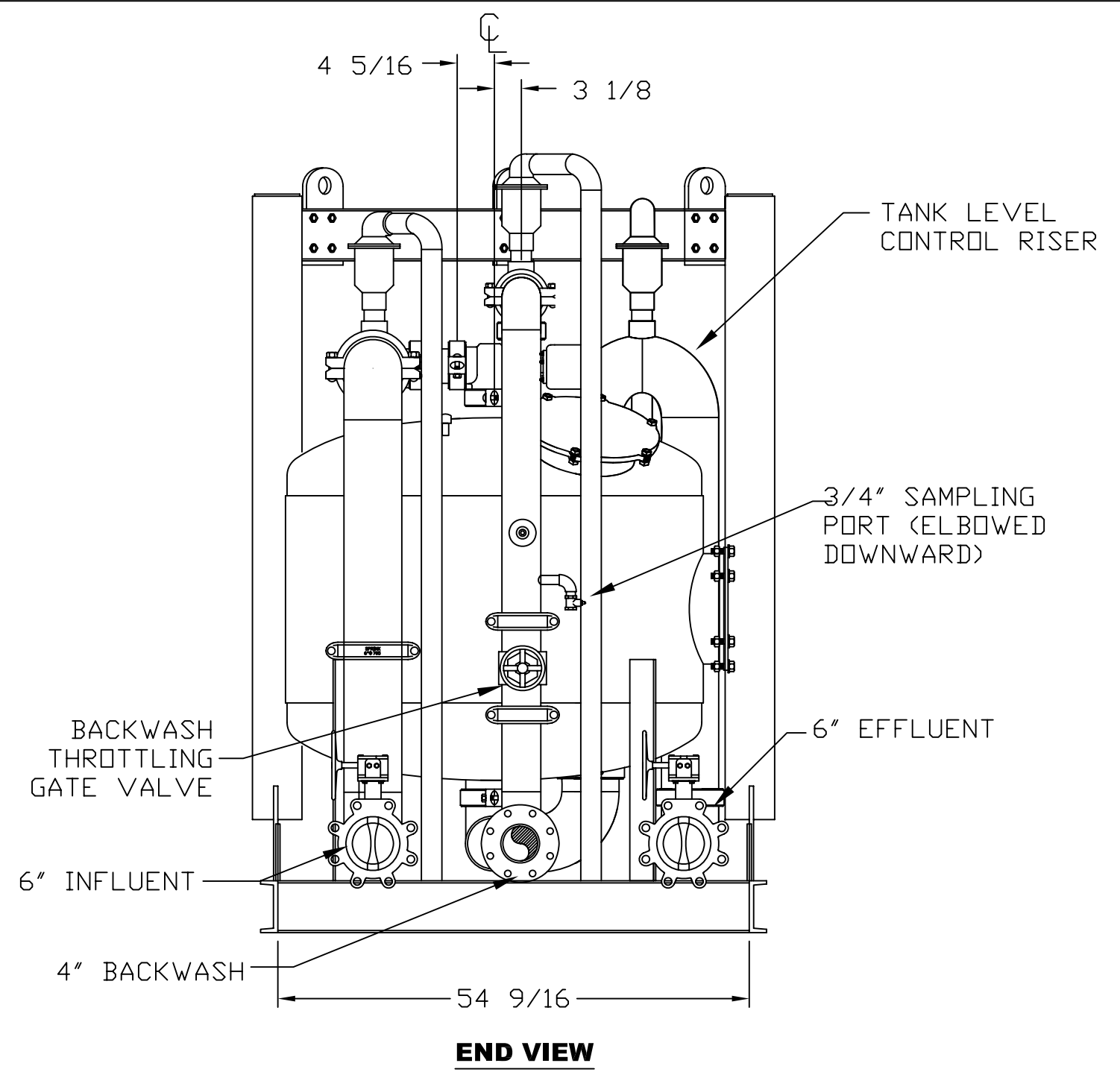
» Tests Performed:	OEM pressure tested. BakerCorp performs scheduled QMS inspections.
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PLAN VIEW



ELEVATION VIEW



END VIEW

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BAKERCORP™ 3020 OLD RANCH PARKWAY
SEAL BEACH, CA 90740-2751

NOTES:
1. This drawing is a baseline representation for this model filter. Variations between this drawing and the actual equipment in the field may exist. Consult your local BakerCorp representative if specific needs exist.

- SPECIFICATIONS**
1. FLOW RATE DESIGN - 285 - 565 GPM
 2. MAXIMUM WORKING PRESSURE - 80 PSI
 3. ELECTRICAL:
 - CONTROLLER 120V, 1A
 - COMPRESSOR 120V, 5A
 - SOLENOIDS 12VDC
 4. MEDIA REQUIREMENTS PER TANK:
 - A. 1/2"x3/4" CRUSHED ROCK - 7.0 CU. FT.
 - B. 0.47mm CRUSHED SILICA SAND - 21.0 CU. FT.
 5. WEIGHT: (APPROX.)
 - SHIPPING - 3,950 LBS. (LESS MEDIA)
 - MEDIA - 7,365 LBS.
 - OPERATIONS - 16,700 LBS.
 6. BACKWASH RATE: 15 GPM/FT² - 190 GPM
 7. PNEUMATICALLY ACTUATED VALVES W/SS TUBING.
 8. STEEL CONDUIT
 9. TUBE TANK VENT VALVES TO GROUND.

G				SCALE: Varies w/ view	SIZE B	ORIGINAL DWG. DATE 06AUG04
F				DRAWN BY: P.J.B.	APPROVED BY: -	CAT/CLASS --
E						
D				TITLE YARDNEY MODEL IL 4824-3AS SAND FILTER w/AIR COMPRESSOR	DRAWING NO. S-9-M0015-1-	SHEET 1 OF 1
C	fixed a few lines that were missing	7/12/05	Z.E.R.			
B	Increased font size of Specifications to improve readability	3/16/05	P.J.B.			
A	This drawing is a revision of S-9-M0014-1	8/6/04	P.J.B.			REV. C
REV.	DESCRIPTION	DATE	BY			