

### PRODUCT DATA SHEET

January, 2007

### YARDNEY 4-POD SAND FILTER (Equip. # SFL22034 and higher)

#### GENERAL INFORMATION

Skid mounted high rate automatic backwashing sand media filter (4 tanks (pods)) designed for general-purpose water filtration of organic and inorganic solids (Yardney Model # IL5424-4AS3). Powered by 110 V external power supply, or battery with solar cell recharge for remote operation.

#### WEIGHTS AND MEASURES

» Capacity:	504 – 756 gpm (Normal flow range) 1000 gpm (Peak flow)
» Design Press:	80 psi maximum
» Temperature:	Limit to ambient. Consult Baker if temperature exceeds 100 degrees.
» Filtration:	To 50 microns
» Height:	7'-7" (overall)
» Width:	5'-0"
» Length:	20'-1" (skid length) 21'-3" (incl. pipe overhang on end of unit)
» Weight:	4,900 lbs. – equipment only 14,500 lbs. – media only 26,900 lbs. – operational
» Backflush:	240 gpm, automatic

#### OPERATING REQUIREMENTS

» Compressed Air:	5 cfm minimum at 60 psi supplied by integrally mounted compressor.
» Sand Media:	Crushed silica, 0.47MM (#80 grit)
» Gravel Media:	#3 crushed rock, 1/2" x 3/4"
» Input Power:	Selectable input power of customer supplied 110 V AC, or 12V DC from a unit mounted solar package.
» Output Power:	12V DC

#### 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.
» Solar Panel:	Uni-Solar Model UA-5 (5 watts) module.

#### FEATURES – con't

» Press. Gauge:	2" face, 1/4" 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 / Influent:</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
» Ball Valves:	Four-inch, bronze body and brass ball; seat is carbon/glass-filled PTFE. 1/4 turn open or close.
» Solenoid Valve:	12V DC, normally closed type 7121V (energizing opens valve).
» Differential Press. Switch:	0-30 psid. Two-inch dial, plated steel case, ±3% accuracy.
» Air / Vacuum Release Valve:	2" valve, mounted on backwash, influent and effluent lines
» Battery:	Sealed rechargeable lead-acid, 12V, NP2-6-12
» Battery Charger:	Power-Sonic Model PSC-12500A, 12 volts.
» Tubing:	Pressurized – 1/4" 304 ss w/ Hoke fittings; Drain - 1/4" polypropylene; Vent – schedule 80 PVC

#### SURFACE DETAILS

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

#### TESTS/CERTIFICATIONS

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