

MUNI Series 60 Hz

Reverse Osmosis & Nanofiltration Machines 50 gpm to 1 mgd (11.4 to 102.2 m³/hr)

Features

- GE Fanuc Quickpanel, 12.0-inch color display, text and pictorial operating screens, touchscreen controls
- GE Fanuc Versamax, communication: Ethernet
- 4-20 mA instruments on QuickPanel
- Primary and final pressure transmitters
- UL 508 listed

Instrumentation

Flow Meters.....	Permeate, concentrate
Conductivity.....	Feed, Permeate
pH.....	Feed
Pressure Gauges.....	Pre-filter, post-filter, pump discharge, primary, interstage, final concentrate, permeate
Pressure Transmitters.....	Pump discharge, primary, interstage, final concentrate, permeate
Pressure Switch.....	Low feed, High permeate, concentrate
ORP.....	Feed
Instrument Center.....	Thornton 770 Max

Options Available

- Allen-Bradley Control Package
- Soft Starters
- Variable Frequency Drives
- SCADA: 75pt trending package with desktop PC
- Electric-actuated operating valves
- MUNI Multi-Media filters
- MUNI Clean-in-Place units
- MUNI chemical feed systems
- Transfer pumps and storage tanks



Documentation Included

- Operation and maintenance manual
- Drawings: piping and instrumentation, electrical and general dimensional

Operating Parameters

Typical feedwater recovery rate.....	75-85%
Design temp.....	60°F (15.6°C)
Typical operating range.....	35 to 85°F (1.6 to 29.4°C)
Nominal membrane rejection %.....	Membrane Specific
Minimal inlet pressure.....	30 psi

Materials of Construction

High-pressure piping.....	316 Stainless Steel, Sch. 10
Low-pressure piping.....	Sch. 80, PVC
Frame.....	Painted blue carbon steel
Enclosure.....	NEMA 12 (painted blue)
Clamps/fittings.....	Zinc-plated

Membrane Elements & Housings

Membrane Model.....	MUNI-LERO, RO, or NF
Style.....	Spiral-wound elements
Manufacturer.....	GE



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e-mailing custhelp@ge.com.

Global Headquarters
Trevose, PA
+1-215-355-3300

Americas
Watertown, MA
+1-617-926-2500

Europe/Middle East/Africa
Heverlee, Belgium
+32-16-40-20-00

Asia/Pacific
Shanghai, China
+86 (0) 411-8366-6489

Membrane Elements & Housings Cont.

Membrane type..... TFC (Polyamide)
 Average membrane flux rate 15-18 GFD
 Membrane rejection % Membrane Specific
 Housing material.....FRP or 316L Stainless Steel

Cartridge Prefiltration

Housing model.....Referenced below
 Housing material316 Stainless Steel
 Cartridge filter 1 to 5 micron nominal, ROsave.Z*s

GE Water & Process Technologies MUNI RO/NF Models

Machine details noted are typical guidelines of the flow capacities noted for a spiral membrane system operating at a 75% feedwater recovery rate. This information is not intended for final system design as specific project goals, feedwater characteristics, and membrane element selections can vary greatly by application. Please contact GE for further detailed design information.

DESIGN	50 GPM	100 GPM	150 GPM	200 GPM	300 GPM	450 GPM	1 MGD
Permeate Rate:	50 gpm	100 gpm	150 gpm	200 gpm	300 gpm	450 gpm	700 gpm
Concentrate Rate:	16 gpm	33 gpm	50 gpm	66 gpm	100 gpm	150 gpm	233 gpm
Feed Rate:	66 gpm	133 gpm	200 gpm	266 gpm	400 gpm	600 gpm	933 gpm
Pumps and Motors							
Manufacturrer:	GE/Tonkaflo	GE/Tonkaflo	GE/Tonkaflo	GE/Tonkaflo	GE/Tonkaflo	GE/Tonkaflo	FEDCO
Model:	SS8512	SS12512	SS240003	AS40407	AS40409	AS40407	Varies, skid mounted, separate
Quantity:	1	1	1	1	1	2	1
Motor HP and type:	25HP TEFC	40 HP TEFC	60 HP TEFC	60 HP TEFC	75 HP TEFC	75HP TEFC	150 HP TEFC
Cartridge Filtration							
Elements quantity:	12	24	36	48	72	108	180
Banking Arrangement:	2→1	4→2	4→2	8→4	8→4	12→6	20→10
Membrane Elements and Housing							
Cartridge Filter:	RO.Zs01-40XK	RO.Zs01-40XK	RO.Zs01-40XK	RO.Zs01-40XK	RO.Zs01-40XK	RO.Zs01-40XK	Varies, skid mounted, separate
Filter Quantity:	7	7	14	14	21	28	Varies, skid mounted, separate
Installation and Utility Requirements							
Inlet:	2.0-inch flange	3.0-inch flange	4.0-inch flange	4.0-inch flange	6.0-inch flange	6.0-inch flange	8.0-inch flange
Permeate:	1.5-inch flange	3.0-inch flange	3.0-inch flange	3.0-inch flange	4.0-inch flange	4.0-inch flange	6.0-inch flange
Concentrate:	1.5-inch flange	2.0-inch flange	2.0-inch flange	2.0-inch flange	3.0-inch flange	3.0-inch flange	4.0-inch flange
Inlet Water Pressure:	30 psig min.	30 psig min.	30 psig min.	30 psig min.	30 psig min.	30 psig min.	30 psig min.
Air Pressure:	100 psig, oil-free	100 psig, oil-free	100 psig, oil-free	100 psig, oil-free	100 psig, oil-free	100 psig, oil-free	100 psig, oil-free
Drain to be sized for:	80 gpm	160 gpm	200 gpm	320 gpm	400 gpm	600 gpm	933 gpm
Power:	460 VAC, 3-phase, 60Hz	460 VAC, 3-phase, 60 Hz	460 VAC, 3-phase, 60 Hz	460 VAC, 3-phase, 60 Hz	460 VAC, 3-phase, 60 Hz	460 VAC, 3-phase, 60Hz	460 VAC, 3-phase, 60 Hz
Control Circuit:	120 VAC, 1-phase, 60Hz	120 VAC, 1-phase, 60 Hz	120 VAC, 1-phase, 60 Hz	120 VAC, 1-phase, 60 Hz	120 VAC, 1-phase, 60 Hz	120 VAC, 1-phase, 60 Hz	120 VAC, 1-phase, 60 Hz
Skid							
Height:	74 inches	92 inches	92 inches	77 inches	93 inches	120 inches	93 inches
Width:	46 inches	46 inches	48 inches	80 inches	80 inches	80 inches	90 inches
Length:	194 inches	194 inches	274 inches	194 inches	274 inches	274 inches	300 inches
Est. Shipping Weight:	3400 lbs.	4500 lbs.	6000 lbs.	7000 lbs.	9500 lbs.	14,500 lbs.	18,000 lbs.

