

# GE OSMO\* PRO NA SERIES

## 60HZ REVERSE OSMOSIS MACHINES FROM 50-450 GPM

The PRO platform is a range of pre-engineered RO machines and supporting components like multi-media filters, carbon filters, water softeners, chemical feed systems, tanks, and pumps for the building blocks of a full-scale configurable water system. With decades of engineering and manufacturing experience worldwide, we offer superior standardization and optimization of RO system design.



### SPECIFIC BASIC FEATURES (BAS)

- GE Fanuc QuickPanel
- 6" monochrome display
- Touch screen controls
- GE Fanuc Versamax Micro Communication: RS232
- 4-20 mA instruments displayed on instrument center
- UL/cUL Electrical Panel

### SPECIFIC PREMIUM FEATURES (PRE)

- GE Fanuc Quickpanel
- 12" color display text and pictorial operating screens
- Touch screen controls
- GE Fanuc Versamax, Communication: Ethernet
- 4-20 mA instruments on QuickPanel
- Primary and final pressure transmitters
- RO permeate flush on shutdown
- UL/cUL Electrical Panel
- pH Meter on RO Feed

### OPTIONS & UPGRADES

- Allen Bradley CompactLogix PLC Control Package
- Membrane Options:
  - 400 Square Foot Elements
  - High Rejection Elements
- Motor Starter
- Variable Frequency Drive
- ORP Meter
- pH Meter (Option for basic)
- PRO Multi-Media filters
- PRO Activated Carbon and Softeners
- PRO Clean-in-Place units
- PRO Chemical Feed Systems
- Transfer Pumps and Storage Tanks

CARTRIDGE FILTRATION	
Housing Model	GE HX-0740-80-V316
Housing Material	316 Stainless Steel
Cartridge Filter	1-micron nominal, ROsave.Z's

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MODELS	PRO-50-NA	PRO-100-NA	PRO-150-NA	PRO-200-NA	PRO-300-NA	PRO-450-NA
Permeate Rate <sup>1</sup>	50gpm (11m <sup>3</sup> /hr)	100gpm (23m <sup>3</sup> /hr)	150gpm (34m <sup>3</sup> /hr)	200gpm (45m <sup>3</sup> /hr)	300gpm (68m <sup>3</sup> /hr)	450gpm (100m <sup>3</sup> /hr)
Concentrate Rate	13gpm (3m <sup>3</sup> /hr)	25gpm (6m <sup>3</sup> /hr)	38gpm (8.5m <sup>3</sup> /hr)	50gpm (11m <sup>3</sup> /hr)	75gpm (17m <sup>3</sup> /hr)	113gpm (26m <sup>3</sup> /hr)
Concentrate Recycle	10gpm (2.3m <sup>3</sup> /hr)	10gpm (2.3m <sup>3</sup> /hr)	NA	15gpm (3m <sup>3</sup> /hr)	NA	NA
Feed Rate	63gpm (14m <sup>3</sup> /hr)	125gpm (28.5m <sup>3</sup> /hr)	188gpm (43m <sup>3</sup> /hr)	250gpm (57m <sup>3</sup> /hr)	375gpm (85m <sup>3</sup> /hr)	563gpm (128m <sup>3</sup> /hr)
PUMPS AND MOTORS						
Model	SS8516	SS12512	SS24009	AS40407	AS40409	AS40409
Manufacturer	GE/Tonkaflor					
Quantity	1					
Motor Power & Type	25HP (18.6kW) TEFC	40HP (30kW) TEFC	60HP (45kW) TEFC		75HP (56kW) TEFC	
Installed Power	18.6kW	30kW	45kW		56kW	112kW
Design Flow Rate	73gpm (17m <sup>3</sup> /hr)	135gpm (31m <sup>3</sup> /hr)	188gpm (43m <sup>3</sup> /hr)	265gpm (60m <sup>3</sup> /hr)	375gpm (85m <sup>3</sup> /hr)	563gpm (128m <sup>3</sup> /hr)
Design Boost Pressure	330 PSIG (23 bar)	275 PSIG (19 bar)	280 PSIG (19.3 bar)	240 PSIG (16.5 bar)	260 PSIG (18 bar)	300 PSIG (20.7 bar)
MEMBRANE ELEMENTS AND HOUSING						
Membranes Quantity	12	24	36	48	72	108
Memb. Housing Style	4 element long, 4 port		6 element long, 4 port	4 element long, 4 port	6 element long, 4 port	
Banking Arrangement	1:1:1	3:2:1		6:4:2		9:6:3
CARTRIDGE FILTRATIONS						
Housing Model	HX-0740-3.0-V-316					
Housing Quantity	1	2			3	4
Cartridge Filter Model	ROZs01-40XX					
Cartridge Filter Length	40in (120cm)					
Cartridge Filter Quantity	7 per housing, 7/change out					
INSTALLATION & UTILITY REQUIREMENTS						
Inlet	2.0" flange	3.0" flange		4.0" flange	6.0" flange	
Permeate	1.5" flange	3.0" flange			4.0" flange	6.0" flange
Concentrate	1.0" flange	1.5" flange	2.0" flange		3.0" flange	
Inlet Water Pressure	30-60 PSIG					
Air Pressure	80 PSI, oil-free					7 bar, oil-free
Drain to be Sized for	67gpm (15m <sup>3</sup> /hr)	133gpm (30m <sup>3</sup> /hr)	200gpm (45m <sup>3</sup> /hr)	267gpm (61m <sup>3</sup> /hr)	400gpm (91m <sup>3</sup> /hr)	600gpm (136m <sup>3</sup> /hr)
Power	460-480 VAC 3-phase 60Hz					
Control Circuit	120 VAC 1-phase 60Hz					
SKID						
Height	79" (200cm)			80" (203cm)		102" (259cm)
Width	46" (117cm)	47" (119cm)		80" (203cm)		
Depth	194" (493cm)		274" (696cm)	194" (493cm)	274" (696cm)	276" (701cm)
Skid Shipping Weight Estimate Without Membranes	3454lb (1567kg)	4408lb (2000kg)	5712(2591kg)	6966lb (3160kg)	8624lb (3912kg)	13736lb (6231kg)
Membranes Shipping Weight Estimate	420lb (191kg)	840lb (381kg)	1260lb (572kg)	1680lb (762kg)	2520lb (1143kg)	3780lb (1715kg)
Operating Weight Estimate	4300lb (1951kg)	5650lb (2563kg)	7550lb (3425kg)	9400lb (4264kg)	12000lb (5443kg)	19600lb (8890kg)

<sup>1</sup>Maximum permeate rate listed at design temperature. Permeate rate can be reduced by up to 15%.



REVERSE OSMOSIS

