GE PRO E-CELL* SERIES

INTEGRATED RO/EDI MACHINES 50-200GPM 60HZ

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, GE offers superior standardization and optimization of RO system design.

STANDARD FEATURES

- RO and EDI mounted on common skid
- PRO E-Cell* 50 and 100 are 2 pass RO designs
- PRO E-Cell 150 and 200 are 1 pass RO designs
- RO Pump VFD(s) and EDI DC Drive mounted on skid
- RO permeate flush sequence on shutdown & divert to drain on startup
- Allen Bradley control system with Compact Logix PLC and PanelView Plus 1000 interface

OPTIONS & UPGRADES

- PRO Multi-Media filters
- PRO Activated Carbon and Softeners
- PRO Clean-in-Place units
- PRO Chemical Feed Systems
- Transfer Pumps and Storage Tanks

EDI STACKS	
Model	GE E-Cell MK-3
Stack Product Flow Rate, Nom	16.7 gpm (3.8 m^3/hr)
Performance	16 MOhm-cm
Silica Removal	<10 ppb
CARTRIDGE FILTRATION	
Housing Model	GE HX-0740-80-V316
Housing Material	316 Stainless Steel
Cartridge Filter	1-micron nom, ROSave.Zs*, RO.Zs01-40XK

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MODEL	PRO E-CELL 50DP	PRO E-CELL 100DP	PRO E-CELL 150	PRO E-CELL 200
RO Permeate Rate[1]	52.5gpm (11.9 m^3/hr)	105gpm (23.9 m^3/hr)	158gpm (36 m^3/hr)	210gpm (48 m^3/hr)
RO Concentrate Rate	21gpm (4.8 m^3/hr)	42gpm (9.5 m^3/hr)	52.7gpm (12 m^3/hr)	70gpm (16 m^3/hr)
Concentrate Recycle	10gpm (2.3 m^3/hr)	10gpm (2.3 m^3/hr)	NA	NA
RO Feed Rate	74gpm (16.8 m^3/hr)	147gpm (33.4 m^3/hr)	211gpm (48 m^3/hr)	280gpm (63.6 m^3/hr)
EDI Product Rate	50gpm (11.4 m^3/hr)	100gpm (22.7 m^3/hr)	150gpm (34 m^3/hr)	200gpm (45 m^3/hr)
EDI Concentrate Rate (max)	1.6gpm (0.36 m^3/hr)	3.2gpm (0.73 m^3/hr)	4.7gpm (1.1 m^3/hr)	6.3gpm (1.4 m^3/hr)
EDI Electrode Rate	1gpm (0.23 m^3/hr)	2.1gpm (0.48 m^3/hr)	3.2gpm (0.73 m^3/hr)	4.2gpm (0.95 m^3/hr)
PUMPS AND MOTORS				
Model	SS8512 Pass 1 SS8512 Pass 2	SS24007 Pass 1 SS12509 Pass 2	SS24009	AS40409
Manufacturer	GE/Tonkaflo*			
Quantity	2		1	
Motor Power & Type	20HP (15kW) TEFC Pass 1 20HP (15kW) TEFC Pass 2	50HP (37kW) TEFC Pass 1 30HP (22.5kW) TEFC Pass 2	60HP (45kW) TEFC	75HP (56.3kW) TEFC
Installed Power	30kW	60kW	45kW	56.3kW
MEMBRANE ELEMENTS & HOUSING				
Membrane Quantity	20 Pass 1; 12 Pass 2	36 Pass 1; 18 Pass 2	42	54
Membrane Housing Style	4 element long, 4 port		6 element long, 4 port	
Banking Arrangement	3:2 Pass 1; 2:1 Pass 2	4:2 Pass 1; 2:1 Pass 2	5:2	6:3
EDI STACKS				
Stack Model	GE E-Cell MK-3			
Stack Quantity	3	6	9	12
Power (DC Drive, 300VDC)	16A max	31.2A max	46.8A max	62.4A max
CARTRIDGE FILTRATION				
Housing Model	HX-0740-3.0-V-316			
Housing Quantity	1	2	2	2
Cartridge Filter Model	ROSaveZs, ROZs01-40XK			
Cartridge Filter Quantity	7	14		
INSTALLATION & UTILITY REQUIREMENTS				
RO Inlet	3" ANSI flange		4" ANSI flange	
RO Reject to Drain	1.5" ANSI flange	2" ANSI flange	1.5" ANSI flange	2" ANSI flange
RO Product Dump	1.5" ANSI flange	3" ANSI flange		4" ANSI flange
EDI Product Outlet	1.5" ANSI flange	3" ANSI flange		4" ANSI flange
EDI Product Dump	1.5" ANSI flange	3" ANSI flange		4" ANSI flange
EDI Concentrate Outlet	0.5" ANSI flange			
EDI Electrode Outlet	0.5" ANSI flange			
Inlet Water Pressure	30-60 PSIG			
Air Pressure	80 PSI, oil-free			
Drain to be Sized for	95gpm (22m^3/hr)	150gpm (35m^3/hr)	220gpm (50m^3/hr)	280gpm (64m^3/hr)
Power	460 VAC 3-phase 60HZ			
Control Circuit	120 VAC 1-phase 60HZ			
SKID DIMENSIONS & WEIGHTS				
Height	96" (244cm)		90" (229cm)	
Width	72" (183cm)	58" (147cm)	80" (203cm)	
Length	197" (500cm)	277" (704cm)	282" (716cm)	
Shipping Weight	9050lb (4150kg)	13650lb (6250kg)	12350lb (5650kg)	14600lb (6650kg)
Operating Weight	11150lb (5100kg)	17050lb (7750kg)	15200lb (6950kg)	18250lb (8300kg)

[1]Maximum permeate rate listed at design temperature. Permeate rate can be reduced by up to 15%.

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