

features

eco-friendly
low maintenance and energy usage
remote control and monitoring available
tunable TDS removal of 25% - 90%
average recovery rate of 75% - 90%
PLC - controlled system
compact and modular design
pre-plumbed, wired, and assembled

forza f12



forza f24





PRODUCT SPECIFICATIONS

forza series

Electra Forza presents a compact, modular, and eco-friendly industrial-grade water filtration solution for large-scale applications in commercial and industrial sectors. Harnessing Membrane Capacitive Deionization (MCDI) technology, electra efficiently reduces total dissolved solids (TDS), hardness, heavy metals, and other contaminants—all without salt or chemical additives, offering remarkable energy efficiency and low operational costs.

Feed Water Quality Operating Limits:

Parameter	Unit	Range	Intermittent
Removal	Δ ppm	0 – 2000	-
Total Dissolved Solids (TDS)	ppm	0-4000	-
Total Organic Carbon	ppm	<15	-
Chemical Oxygen Demand	ppm	<50	<100
Turbidity	NTU	<4	<100
Fat, Oils, Greases	ppm	<0.5	-
Total Suspended Solids (TSS)	ppm	<4	<20
Free Chlorine	ppm	<1	<25
pH	-	2-10	1-12
Total Iron	ppm	<0.5	-
Total Hardness (CaCO ₃)*	ppm	<1000	-
Alkalinity(CaCO ₃)*	ppm	<1000	-
Pre-Filtration	μm	5	-
Temperature	°C	1-60	-

*Limits depend on set TDS removal and water recovery

System Specifications:

Model	F-12	F-24
Configuration	12 CapDi Modules	24 CapDi Modules
TDS Removal ①	25-90%	25-90%
Water Recovery ②	40-90%	40-90%
Max Net Product Flow (gpd / m³d) ③	31,700 / 120	63,400 / 240
Min Feed Water Pressure (psi/bar)	44 / 3	44 / 3
Max Feed Water Pressure (psi/bar)	145/10	145/10
Feed Inlet PVC Coupling (in)	1.5	2
Product PVC Coupling (in)	1.5	2
Concentrate PVC Coupling (in)	1.5	2
Motor(HP)	3	5
Pump Type	Multi-Stage	Multi-Stage
Electrical	3PH Δ 200-240VAC, 50/60 Hz, 22A	3PH Δ 200-240VAC, 50/60 Hz, 38A
Operating Ambient Temperature (°F / °C)	≤ 77 / 25	≤ 77 / 25
Approximate Dimensions L x W x H (in / cm)	59 x 35 x 87/ 150 x 90 x 220	114 x 43 x 87/ 290 x 110 x 220
Min Service Space L x W x H (in / cm)	32 / 80	32 / 80
Approximate Weight (lbs / kg) ④	1210 / 550	2094 / 950

① TDS Removal Tunability Range depends on Feed Water Conditions

② Water Recovery depends on Set TDS Removal

③ Net Product Flow depends on Set TDS Removal and Recovery

④ Weight without module