

features

eco-friendly
low maintenance and energy usage
remote control and monitoring available
tunable TDS removal of 25% - 90%
average recovery rate of 75% - 92%
compact and modular design
pre-plumbed, wired, and assembled

flex f1



flex f6



flex mini





flex series

PRODUCT SPECIFICATIONS

The Flex Series offers a versatile, compact, and cost-effective water filtration solution tailored for both residential and commercial applications. Home-owners benefit from a lower total cost of ownership while enjoying superior water quality that enhances skin, hair, laundry, and extends the life of valuable appliances. Commercially, it serves a wide range of industries, including breweries, coffee shops, restaurants, hotels, car washes, and agricultural operations. Featuring eco-friendly Membrane Capacitive Deionization (MCDI) technology, electra efficiently reduces total dissolved solids (TDS), hardness, heavy metals, and other contaminants—all without relying on salt or chemicals.

Feed Water Quality Operating Limits:

Parameter	Unit	Range	Intermittent
Total Dissolved Solids (TDS)	ppm	< 2000	-
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	Mini	F-1	F-6
Configuration	1 CapDi Modules	1 CapDi Modules	2-6 CapDi Modules
Feed Water Quality TDS (ppm)	≤ 300	≤ 600	≤ 1200
TDS Removal ①	25-90%	25-90%	25-90%
Water Recovery ②	75-92%	75-92%	75-92%
Max Net Product Flow (gpd / m³d) ③	1,320 / 5	1,320 / 5	15,850 / 60
Min Feed Water Pressure (psi/bar)	44 / 3	44 / 3	44 / 3
Max Feed Water Pressure (psi/bar)	145/10	145/10	145/10
Feed Inlet PVC Coupling (in)	¾ (Push-Fit)	¾	1
Product PVC Coupling (in)	¾ (Push-Fit)	¾	1
Concentrate PVC Coupling (in)	¾ (Push-Fit)	¾	1
Motor(HP)	n/a	n/a	1
Pump Type	DC Diaphragm Booster (Max Pressure Output ≤ 70 PSI)	DC Diaphragm Booster (Max Pressure Output ≤ 60 PSI)	Multi-Stage
Electrical	1PH 110-240VAC, 50/60 Hz, 1.4A	1PH 110-240VAC, 50/60 Hz, 4.2A	1PH 200-240VAC, 50/60 Hz, 19A
Operating Ambient Temperature (°F / °C)	≤ 77 / 25	≤ 77 / 25	≤ 77 / 25
Approximate Dimensions- L x W x H (in / cm)	12 x 17 x 25 / 30 x 43 x 64	21 x 16 x 41 / 53 x 41 x 105	45 x 35 x 65 / 115 x 90 x 166
Min Service Space L x W x H (in / cm)	6 / 15	6 / 15	32 / 80
Approximate Weight (lbs / kg) ④	37 / 17	67 / 30	880 / 400

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