

Project	_____
Item	_____
Quantity	_____
FCSI Section 11400	_____
Approved	_____
Date	_____

Models

- FLT0031



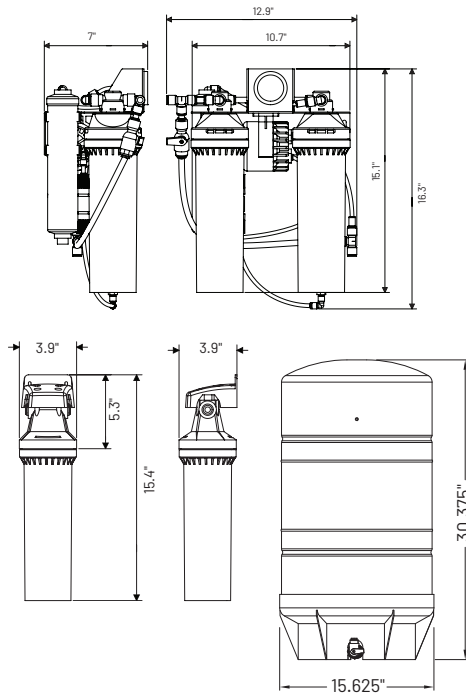
Installation & Operating Tips

- Feed water connection to system should be COLD only. Tempered water up to 80° F (26.6°C) can be used.
- Do not exceed system specifications for temperature and pressure.
- Provide a dedicated feed water supply with a 1/2" FPT valve.
- For use with steam generation only. Do not use for condensate or wash-water.
- Allow 3" clearance below system for filter cartridge removal and replacement.
- Detailed, illustrated installation guide is included with each system.
- Change cartridges on a regular six (6) month preventative maintenance program.
- Change cartridges when capacity is reached or when flow becomes too slow.
- Membrane life varies depending on feed water conditions and pre-filter maintenance. It is recommended to replace the membrane every 18 months.
- Always flush the filter cartridge at time of installation and cartridge change.

Standard Features

- Significantly reduces scale and corrosion problems related to high TDS, water hardness and chlorides
- Ideal for combi and steam oven applications where mineral reduction is necessary to meet manufacturer's warranty requirements
- Integrated mineral-addition cartridge provides TDS needed for conductivity sensors and optimal mineral content for steam equipment applications
- High capacity pre-filter protects the membrane against damage from sediment and chlorine
- Operating pressure gauge allows visual monitoring of system production and pre-filter condition
- Plumbed-in post filter reduces chloramine New manifold design provides fewer possible leak points.
- Sealed hydropneumatic storage tank provides needed capacity and delivers pressurized water to downstream equipment.
- Optimized water line to equipment is 1/2" I.D. hose. A 3/4" Garden Hose Thread (GHT) connector is provided for connection to equipment when applicable.
- Integrated system bypass valve reduces costly service interruptions and down-time
- Compact, modular design utilizes installation under counters and in tight spaces
- Non-electric design operates on available water pressure
- Simple, easy-to-install and service design
- Drain Connection: 2.0 gpm Minimum Flow
- Storage Tank Capacity: 16 gals.

Cleveland



Specifications

- **Service Flow Rate**
Dependent on water level / pressure in storage tank
- **Daily Production Rate**
175 gpd (633 Lpd) at 77°F (25°C), 60 psi (3.5 bar) feed water pressure. Production will vary based on water supply temperature, and pressure and desired blended TDS setting.
- **Drain Connection**
Minimum 2.0 gpm (7.6 Lpm)
- **Storage Tank Capacity**
16 gallons (61 L)
- **Pressure Requirements**
60 - 85 psi (3.5 - 5.9 bar), non-shock
- **Inlet Water Temperature**
40 - 100°F (4 - 38°C)
- **Inlet Connection**
3/8" Push Fit Tubing
- **Outlet Connection**
1/2" I.D. hose
- **Shipping Weight**
51 lbs (23.13 kgs)
- **Electrical Connection**
None required

Dimensions

- **Processor:**
16.3" H x 12.9" W x 7" D 41.4 cm x 32.7 cm x 17.8 cm
- **Post Filter:**
15.4" H x 3.9" W x 3.9" D 39.1 cm x 9.9 cm x 9.9 cm
- **Tank:**
30.375" H x 15.625" dia. 77.15 cm x 39.62 cm

Feed Water Chemistry

Feed TDS	Up to 1200 ppm
Feed pH	6-10 units
Hardness*	12 grains or less
Free Chlorine	<2 mg/L
Iron	0.1 mg/L max
Turbidity	0.50 NTU
Manganese	0.05 mg/L max
Hydrogen Sulfide	0.00 mg/L

WATER FILTERS GUIDELINES FOR CLEVELAND STEAMERS												
		MAXIMUM FLOW RATE *				SIZING RECOMMENDATIONS						
	INITIAL FILL AT START UP (Gallons)	MAX GAL./MIN	MAX GAL./HOUR	MAX GAL./HOUR/P AN	MAX GAL./DAY (8 Hour Day)	MEETS WATER REQUIREMENTS Cleveland	Cartridges Cleveland	DOES NOT MEET REQUIREMENTS - HIGH HARDNESS +170PPM, pH below 8.5 ph, Cleveland	DOES NOT MEET REQUIREMENTS - REVERSE OSMOSIS WITH MINERAL ADDITION Cleveland	SUGGESTED FILTER CHANGE FREQUENCY	RO PRODUCTION GPD OPTIMAL (77 F)	STORAGE TANK CAPACITY
MODEL												
STEAMCHEF SERIES (BOILERLESS)												
22CET3.1 - Energy Star	1.10	0.07	4.0	1.3	32.00	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0031	ANNUAL	175	16
22CET6.1 - Energy Star	1.10	0.07	4.0	0.7	32.00	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0031	ANNUAL	176	16
22CGT3.1 - Energy Star	1.10	0.07	4.0	1.3	32.00	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0031	ANNUAL	177	16
22CGT6.1 - Energy Star	1.10	0.07	4.0	0.7	32.00	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0031	ANNUAL	165	16
STEAMCRAFT-COUNTER TOP (GENERATORS)												
21CET8	2.80	0.057	3.42	1.1	27.36	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0031	ANNUAL	175	16
21CET16	3.80	0.113	6.78	1.4	54.24	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0026	ANNUAL	175	16
21CGA5	4.00	0.113	6.78	1.4	54.24	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0026	ANNUAL	175	16
10 PAN MODELS (GENERATORS)												
24CGA10	7.90	0.185	11.10	1.1	88.80	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0027	6 MONTHS	350	50
24CGA10.2	3.30	0.194	11.64	2.3	93.12	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0027	6 MONTHS	350	50
24CGA10.2ES Energy Star	3.30	0.132	7.90	1.6	63.20	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0026	6 MONTHS	350	16
24CEA10	3.80	0.113	13.56	2.7	108.48	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0027	6 MONTHS	350	50
24CGP10	16.00	0.360	21.60	2.2	172.80	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0012	3 MONTHS	1400	50
CLASSIC CONVECTION SERIES (BOILER BASE)												
200,000 BTU Boilers (24CGM200)	8.00	0.2500	15.00	2.5	120.00	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0012	6 MONTHS	1400	50
300,000 BTU Boilers (36CGM300, 36CGM16300)	12.00	0.3600	21.60	2.2	172.80	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0012	3 MONTHS	1400	50
24 kW Boilers (24CEM24)	9.00	0.1600	9.60	1.0	76.80	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0027	6 MONTHS	350	50
36kW Boilers (24CEM36)	9.00	0.2400	14.40	1.4	115.20	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0012	6 MONTHS	1400	50
48 kW Boilers (24CEM48)	9.00	0.3000	18.00	1.8	144.00	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0012	3 MONTHS	1400	50
CLASSIC PRESSURE SERIES (BOILER BASE)												
24 kW Boilers PEM24	9.00	0.1600	9.60	1.0	76.80	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0027	6 MONTHS	350	50
36kW Boilers PEM36	9.00	0.2400	14.40	1.4	115.20	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0012	6 MONTHS	1400	50
48 kW Boilers PEM48	9.00	0.3000	18.00	1.8	144.00	FLT0040	FLT0014 & FLT0018	FLT0043	FLT0012	3 MONTHS	1400	50

* Max Flow Rate is when steamer is cooking continuously. Idle mode uses significantly less water.



System Tested and certified by IAPMO R&T to NSF/ANSI Standard 42:

AESTHETIC EFFECTS
Chemical Reduction
Chlorine, Chloramine, Taste & Odor
Mechanical Filtration
Nominal Particulate Class III

NOTES:

Cleveland Range reserves right of design improvement or modification, as warranted.
Many regional, state and local codes exist and it is the responsibility of the owner and installer to comply with the codes.
Cleveland Range equipment is built to comply with applicable standards for manufacturers. Included among those approval agencies are U.L./NSF#4 and CSA (AGA, CGA).

(NOT TO SCALE)

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