

## CromaFlow Inc. Model CF 12

### SPECIFICATIONS

The Model CF 12 treatment system is constructed with one (1) fiberglass tank, noncorrosive internal parts, two (2) manway access openings, stainless steel trash screening, PVC schedule 40 piping, one (1) submersible aeration pumps with venturi system, one (1) optional RAS pump, one (1) submersible discharge pump sized to meet total dynamic head requirements of the project, and Mechanical or HMI/PLC controls with remote monitoring/operations ready controls.

	<i>CROMAFLOW CF 12</i>	<i>U.S.A Customary Units</i>	<i>Metric</i>
1	Tank dimensions	11'3"L x 5'7"W x 5'7"H	3.4 m x 1.7 m x 1.7 m
2	Rated treatment capacity	1,200 gpd	4.54 m <sup>3</sup> /day
3	Total tank volume	1,360 gallons	5.15 m <sup>3</sup>
4	Aeration volume	950 gallons	3.4 m <sup>3</sup>
5	Clarifier volume	410 gallons	1.55 m <sup>3</sup>
6	Discharge volume	200 gallons	757.08 liters
7	Discharge cycles/day	6 cycles/day	6 cycles/day
8	Surge capacity	500 gallons	1.9 m <sup>3</sup>
9	Aeration capability (with standard pumps)	6.7 lbs. O <sub>2</sub> /day	3.04 kg O <sub>2</sub> /day
10	Maximum organic loading	2.4 lbs. BOD <sub>5</sub> /day	1.09 kg BOD <sub>5</sub> /day
11	Design influent BOD <sub>5</sub>	250 mg/L	250 mg/L
12	Design influent TSS	300 mg/L	300 mg/L
13	Design influent nitrogen (Ammonia)	40 mg/L	40 mg/L
14	Design influent TKN	55 mg/L	55 mg/L
15	Effluent CBOD (Carbonaceous)	≤25 mg/L	≤25 mg/L
16	Effluent TSS	≤25mg/L	≤25 mg/L
17	Effluent TN	≤10 mg/L (Running denitrification )	≤10 mg/L (Running denitrification)
18	Effluent TKN	≤20 mg/L (with nitrification)	≤20 mg/L (with nitrification)
15	Standard aerator efficiency (SAE)	0.81 lbs. O <sub>2</sub> /hp-hr.	0.37 kg O <sub>2</sub> /hp-hr.
16	Oxygen transfer rate (OTR)	0.40 lbs. O <sub>2</sub> /hr	0.37 kg O <sub>2</sub> /hr
17	Minimum design dissolved oxygen (DURING AERATION AT ≤DESIGN MLVSS)	2.0 mg/L	2.0 mg/L
18	Retention time	12-40 hours	12-40 hours

**Power:** Designed per site requirements. Electrical is designed project specific 50 or 60 Hz.

**Control panel:** HMI/PLC controls with NEMA 4x enclosure standard, NEMA 3-13 available as an option.

**Alarm System:** Red, yellow, green stack light with remote monitoring/operations to the internet via a dedicated IP address.

**Tank construction materials:** molded chopped strand fiberglass reinforced using isophthalic polyester resin and finished with marine grade gel coat.

**Aeration equipment:** Differential pressure injector (venturi system) in combination with submersible pump.