

F SERIES FLOCCULATORS

flocculate (ˈflä-kyə-ˌläät) // **verb** // La. 18c. *floccus*;
1. to cause to aggregate into a mass 2. to form small
clumps or masses



PIPE SWEEPS

SHEAR FORCE ELIMINATORS



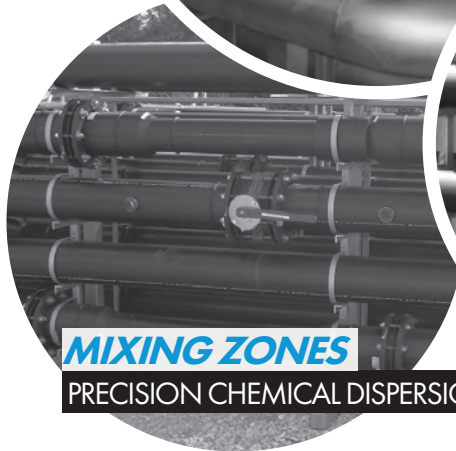
AIR INJECTORS

DISSOLVED AIR ENTRAINERS



MIXING ZONES

PRECISION CHEMICAL DISPERSION



FRC's F-Series Flocculators efficiently coagulate and flocculate suspended solids using no moving parts or external energy inputs, like mixers.

The engineered approach to flocculator design employs long-radius **Pipe Sweeps** to eliminate shear forces. This results in highly uniform floc formation at low chemical dosing rates. **Air Injectors** allow bubbles to become entrained within flocculated solids, which increases separation efficiency. And **Mixing Zones** provide precision chemical dispersion.

FRC Flocculators come standard with fittings for chemical dosing, sampling, and whitewater injection. Model capacities are available up to 4000 GPM. Materials of construction available in SS304, SS316, HDPE, and PVC.



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Employee Owned

SYSTEM DETAILS

1. Influent Flange
2. Coagulant Injection Port
3. Zone 1 Mixer
4. Long Radius Bends
5. Polymer Injection Port
6. Zone 2 Mixer
7. Sample Port
8. Air Injection Ports (on back of pipe)
9. Effluent Flange



FLOCCULATOR MODEL SPECIFICATIONS

Model	Flow (gpm)	Materials	Dry Weight (lbs)	Wet Weight (lbs)	Dimensions (LxWxH)
F-1	7-11	PVC / SS	140	160	8'3" x 2' x 3'6"
F-1.25	12-17	PVC / SS	142	185	8'3" x 2' x 3'9"
F-1.5	20-28	PVC / SS	145	472	9'2" x 2' x 4'3"
F-2	29-41	PVC / SS	285	503	9'2" x 2' x 4'7"
F-2.5	40-65	PVC / SS	291	560	9'2" x 2' x 4'9"
F-3	69-99	PVC / SS	440	889	14'11" x 2'4" x 4'4"
F-4	119-173	PVC / SS	620	1,218	14'7" x 3'1" x 6'5"
F-5	209-285	HDPE / SS	830	2,537	15'10" x 3' x 6'8"
F-6	280-380	HDPE / SS	930	3,100	15'10" x 3' x 6'10"
F-8	419-697	HDPE / SS	1,410	4,975	16'2" x 3'8" x 5'11"
F-10	650-1,045	HDPE / SS	1,830	6,362	16'2" x 3'8" x 6'10"
F-12	921-1,520	HDPE / SS	3,150	9,225	16'3" x 3'10" x 8'
F-14	1,300-2,000	HDPE / SS	4,200	11,900	16'11" x 3'10" x 9'3"

* Consult FRC as values may vary based on process circumstances

** Model capacities for greater flow rates available as needed



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