



# SERIES CF

## ClearFloater™ Flotation Separator

	Wastewater Suspended Solids (mg/L)																			
	500		1000		1500		2000		2500		3000		3500		4000		4500		5000	
	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Model	ClearFloater™ Wastewater Flow Rating (gpm)																			
CF50	80	50	80	50	80	50	80	50	64	45	53	38	46	33	40	28	36	26	32	23
CF125	175	125	175	125	175	125	175	125	140	99	117	83	100	71	87	62	78	55	70	50
CF250	350	250	350	250	350	250	350	250	280	199	234	166	200	142	174	124	156	111	140	99
CF500	700	500	700	500	700	500	700	500	560	398	668	474	400	284	348	247	312	222	280	199
CF1000	1400	1000	1400	1000	1400	1000	1400	1000	1120	795	1336	949	800	568	696	494	624	443	560	398
CF2000	2800	2000	2800	2000	2800	2000	2800	2000	2240	1590	2672	1897	1600	1136	1392	988	1248	886	1120	795

### Series CF Rating Chart

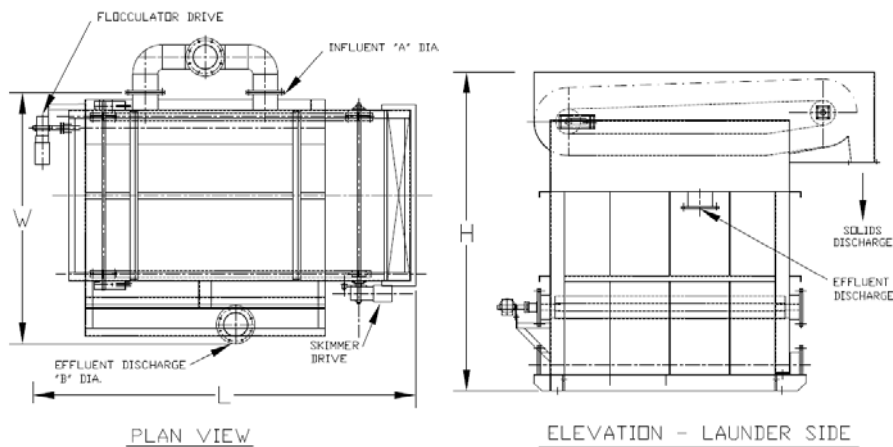
Flotation separators are rated to treat the stated wastewater flows containing suspended solids as indicated, when matched with the proper Series F Suspended Air® Emulsion Generator.

# SERIES CF ClearFloater™ Flotation Separator

## Dimensions



MODEL CF125



## Standard Specifications

MODEL	FLOTATION AREA (sq. ft.)	DIMENSIONS			PIPE SIZE (in.)	
		W	L	H	A	B
CF50	8	4'-6"	7'-5"	7'-0"	3	3
CF125	17.5	7'-0"	9'-0"	9'-2"	6	6
CF250	35	7'-4"	11'-2"	9'-5"	8	8
CF500	72	8'-9"	16'-3"	10'-10"	10	10
CF1000	144	8'-9"	28'-3"	10'-10"	12	12
CF2000	304	11'-6"	42'-6"	12'-9"	16 (2)	16 (2)
CF3000	432	11'-6"	58'-6"	12'-9"	18 (3)	18 (2)

## APPLICATION

Series CF Flotation Separators are designed to be used in a Suspended Air® Flotation (SAF™) System, properly matched with a Series F Suspended Air® Emulsion Generator to treat the flow rate and suspended solids content of the particular wastewater.

Hydraulic loading rates as high as 15 gpm per square foot of flotation area have been sustained in test runs. The Series CF is also rated for solids fluxes as high as 15 lb. per hour per square foot of flotation area. This results in a footprint less than 30 percent of DAF for the same treatment result.

Flotation treatment can be interrupted for extended periods of time and re-started quickly without loss of treatment efficiency, because the floated solids remain on the tank surface.

## FLOTATION TANK DESIGN

The Series CF design has been developed to realize the full advantage of the extremely high rise velocities and stable float characteristic of flocculated solids having Suspended Air® bubbles attached.

The inlet passes through an agitated flocculation chamber, and the inlet to the flotation area is distributed evenly across the tank length. The skimmed surface is typically longer than it is wide. The solids are skimmed off immediately after reaching the surface, without allowing a mat of solids to build up.

Skimmed solids are scraped up an inclined beach section to the discharge chute. Clarified effluent passes underneath a deep baffle, overflowing a full-width adjustable weir to the effluent receiving box.

## EQUIPMENT FEATURES AND OPTIONS

**Tank and Support Materials:** A36 carbon steel, minimum 12 gauge, welded construction. Stainless steel available as an option.

**Flocculation Chamber:** Mechanically agitated compartment within the flotation tank, mixer shaft direct driven by a variable speed gearmotor. Provides for effective blending of Suspended Air® Emulsion and additional polymer with influent coagulated / flocculated wastewater.

**Mechanical Skimmer:** Chain and flight, stainless steel flights and shaft, thermoplastic sprockets and pintle chain, with the drive sprocket direct driven by a variable speed gearmotor. Timed on / off cycle can be supplied as an option.

Manufactured By:

**Heron Innovators, Inc.**  
1025 Nichols Drive  
Rocklin, CA 95765  
Tel. (916) 408-6601  
FAX (916) 408-6991  
www.heroninnovators.com

Copyright © 2011 Heron Innovators Inc.

***Don't be fooled by imitators - always ask for:  
Suspended Air® Flotation - by Heron Innovators, Inc.***

**Your Local Representative:**