

# DISSOLVED AIR FLOTATION (DAF)



## HR MacroDAF™

Capacities from 25 to 700 m<sup>3</sup>/h (100 to 3000 GPM)

The HR MacroDAF™ is a High Rate Dissolved Air Flotation (DAF) system that utilizes inclined corrugated plate technology yielding very high flow rates in a small footprint. The system features all stainless steel construction and is equipped with two high pressure recirculation (air dissolving) pumps; one pump operating and one pump as a 100% stand-by.

Very high solids concentration is achieved in the float material using a full-length skimmer system and unique static dewatering grid. Settled solids are discharged through automatic drain valves. System operation can be either manual or automatic using an automated control panel that integrates with other installed equipment, (feed pumps, chemical feed systems, etc.).

HR MacroDAF™ may be installed as a pretreatment system, with or without chemical treatment, or as a clarifier for biological systems.

- ✓ High flow rates
- ✓ Compact footprint
- ✓ Stainless steel construction
- ✓ Reliable micro-bubble flotation
- ✓ Inclined plate design
- ✓ Automated controls
- ✓ Flotation and settling in single system



## DISSOLVED AIR FLOTATION (DAF) Models

Description	Units	HR-100	HR-200	HR-400	HR-600	HR-800	HR-1200	HR-1600	HR-2000	HR-2400	HR-3000
Capacity *	m <sup>3</sup> /h	25	45	90	140	180	270	360	450	550	700
Free Surface	m <sup>2</sup>	1,8	3,5	5,9	8,4	8,5	10,9	13,3	15,6	20,1	24,2
Effective Plate Surface	m <sup>2</sup>	8,6	17,2	34,5	51,7	68,9	103	138	172	207	259
Overflow Rate	m <sup>3</sup> /m <sup>2</sup> .h	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
(A) Influent	ND mm	100	150	150	200	250	300	350	400	400	450
(B) Effluent	ND mm	150	200	250	300	300	350	350	450	450	500
(C1) Float Discharge	ND mm	150	200	250	250	250	250	250	250	300	300
(C2) Settled Solids	ND mm	100	100	150	150	150	150	150	150	150	150
(C3) Sand Drain	ND mm	50	100	100	100	100	100	100	100	150	150
(D) Length	mm	3050	3050	4110	5180	5490	6550	7620	8990	7620	9190
(E) Width	mm	1370	2440	2440	2440	2570	2570	2570	2900	3660	4010
(F) Height	mm	3300	3300	3300	3300	4880	4880	4880	4880	4880	4880

\* Capacities may be significantly decreased with high solids loading.

