

ECOFLOAT

DISSOLVED AIR FLOATATOR

IX.I MACHINE DESCRIPTION

ECOFLOAT DAF systems are a large surface/low depth designs with a rotating collector and circumferential drive. The key feature of the ECOFLOAT is its flow feed and distribution system.



The influent is mixed with air saturated water immediately prior to entering the DAF.

Once inside, the mixture is released into the tank and the entrained air naturally separates from the water generating micro bubbles.

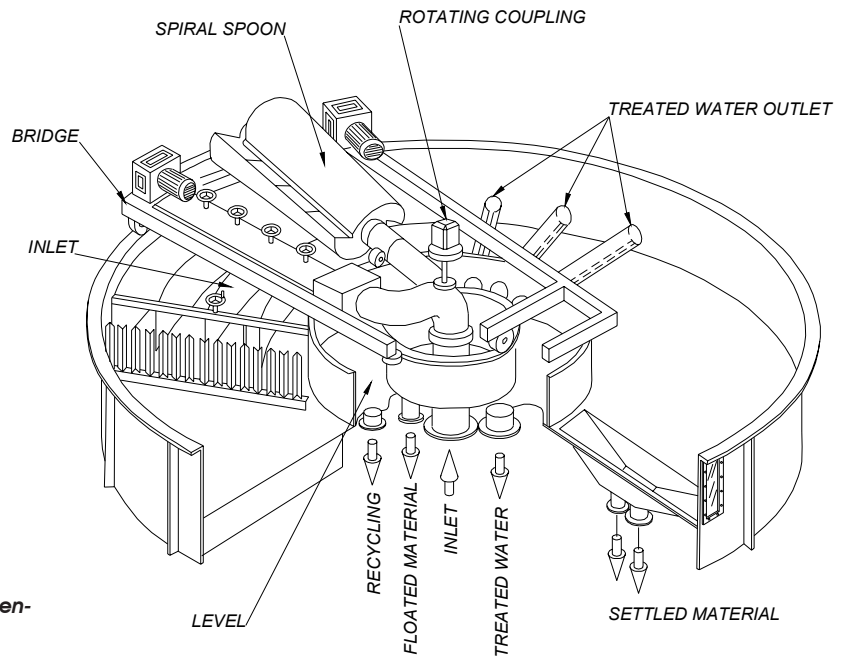
In order to maximize the flotation efficiency of the solids, the water velocity at the inlet is counteracted by the rotating bridge movement to develop a "zero horizontal velocity" condition.

This system retention time permits the flotation of the suspended particles to the surface of the water.

This unique design of the ECOFLOAT is the only system that prevents or contaminated water from being discharged.

IX.II TECHNICAL DATA

	Flowrate (m ³ /h)	INSTALLED POWER (kW)
ECOFLOAT 20	18	0.92
ECOFLOAT 25	28	0.92
ECOFLOAT 30	42	1.50
ECOFLOAT 40	75	1.50
ECOFLOAT 50	120	2.25
ECOFLOAT 67	210	2.25
ECOFLOAT 80	300	3.00
ECOFLOAT 100	470	3.00

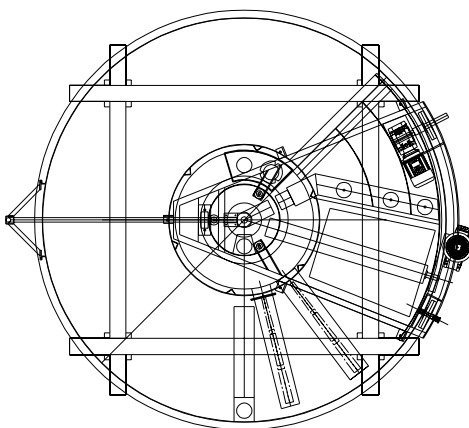
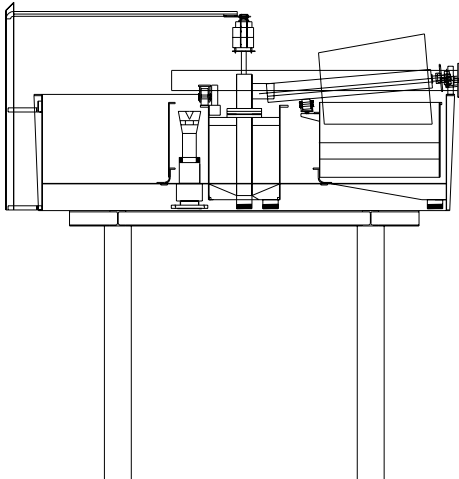


n.b.: the manufacturer may modify some dimensions or sizes without prior information!

	ECOFLOAT model							
	20	25	30	40	50	67	80	100
Øa - m (Diameter)	2	2.5	3	4	5	6.7	8	10
b - m (Tank height)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
c - m (Total height)	1.2	1.2	1.3	1.3	1.48	1.55	1.69	1.8

Dissolved Air Floatator

IX.III SUPPLY COMPONENTS



Dissolved Air Floatator - ECOFLOAT

Modular flotation and settling compartments and support frame. All wetted components are AISI304 stainless steel

Rotating bridge with collector with adjustable apertures for water distribution equipped with screen and no-turbulence baffles made from AISI304 stainless steel

Supporting frame made of epoxy painted mild steel profiles

AISI304 stainless steel influent coupling fitted with flexible connection to the distribution unit

AISI304 stainless steel rotating central cylinder equipped with extraction tubes for the clarified water and bottom seal made of chemically resistant rubber

AISI304 stainless steel bottom scraper for the collection and discharge of settled material

Side scrapers for central cylinder and main tank cleaning

AISI304 stainless steel spiral designed floated sludge collector rotating over an inclined axis

Variable speed gearmotors for collector and bridge

Rotating electrical contactor power supply

Pressurizing unit for the recycled water and air including

- Mixing tube made of AISI304 complete with diffusers and supporting frame in epoxy painted mild steel
- Pressure gauges with ball valves
- Flow meters for air flow control
- Pressure reducing valve at inlet of pressurized water complete with electronic control

IX.IV ACCESSORIES and OPTIONALS

- Supporting frame made of AISI304;
- Construction in AISI316;
- Automatic water level control system (only models ECOFLOAT80 and 100).

