

Compact Waste Water Treatment Plant

VADOOF

DISSOLVED OZONE FLOTATION

Compact system, easy to install.

Wireless Control

Low Maintenance

Pre-assembled Electric Board

Simplified Operation



CE Certified



Possibility of Water Recovery



Low Cost

VADOF MODELS

MODEL	Units (SI)	VADOF 08	VADOF 12	VADOF 18
Nominal flow (max)	L / h (gal/h)	1500(390)	3000(780)	6000(1585)
max solids load	mg / l	800	800	800
MANUFACTURING SPECIFICATIONS				
Dimensions				
Max width	mm (ft)	1200(3,94)	1650(5,41)	2160(7,09)
Max Height	mm (ft)	1900(6,23)	2150(7,12)	2400(7,87)
Length	mm (ft)	1700(5,58)	2160(7,12)	2600(8,53)
Space required	mm x mm(ft×ft)	2600 x 1500(8,53×4,92)	3000 x 2200(9,84×7,22)	3500 x 2650(11,48×8,70)
Installed power	KW	3	4	6
Manufacturing materials		PP / PE / PVC	PP / PE / PVC	PP / PE / PVC
Piping				
Raw Waste/Water inlet	mm (in)	32(1)	50(2)	50(2)
Treated water outlet	mm (in)	50(2)	63(2 1/2)	63(2 1/2)
Air inlet	mm (in)	8(3/8)	8(3/8)	8(3/8)
water recycling	mm (in)	32(1)	50(2)	75(3)
Ozone Injection				
Ozone Generator	g/h	from 2 to 10 *	from 2 to 10 *	from 2 to 10 *
Oxygen concentrator		optional **	optional **	optional **
Ozone destructor		Yes (catalytic)	Yes (catalytic)	Yes (catalytic)
Ozone leak alarm		Yes (room area)	Yes (room area)	Yes (room area)
Flocculation reactor :				
Volume	L (gal)	200(52)	400(104)	400(104)
Dimensions	mm x mm (ft×ft)	800 x 500(2,62×1,64)	1200 x 750(3,94×2,46)	D500 x H2000(1,64×6,57)
Flocculation Stirrer :				
Diameter	mm (in)	200(8)	350(14)	350(14)
Installed power	KW	0,25	0,37	0,37
Sludge Discharge				
Top motorized scraper :				
Diameter	mm (in)	800(32)	1200(48)	1800(72)
Installed power	KW	0,25	0,55	0,75
Bottom pneumatic valve :				
Diameter	mm (in)	50(2)	75(3)	75(3)
Compressed air				
No. units	Unit	1	1	1
Max air flow	L / h (gal/h)	10(2,6)	22(5,72)	50(13)
Air pressure	bar	4,5	4,5	4,5
CHEMICAL TREATMENT EQUIPEMENT				
Coagulant Dosing pump				
Type		Membrane	Membrane	Membrane
Installed power	KW	0,22	0,22	0,7
flowrate	lh (gal/h)	8,5(2,21)	8,5(2,21)	27(7,0)
Neutralizer Dosing pump				
Type		Membrane	Membrane	Membrane
Installed power	KW	0,22	0,22	0,7
flowrate	lh (gal/h)	8,5(2,21)	8,5(2,21)	27(7,0)
Flocculant Dosing pump				
Type		Membrane	Membrane	Membrane
Installed power	KW	0,22	0,22	0,7
flowrate	lh (gal/h)	8,5(2,21)	8,5(2,21)	27(7,0)
pH Control				
Electrode probe		Glass + bulb	Glass + bulb	Glass + bulb
Transmitter		4-20 mA	4-20 mA	4-20 mA
Converter		Digital	Digital	Digital
Chemical Tanks				
Material	-	PP / PE / PVC	PP / PE / PVC	PP / PE / PVC
Volume	L (gal)	100(26)	200(52)	500(130)
Diameter	mm (in)	480(19,2)	550(22)	740(29,6)
Height	mm (ft)	680(2,23)	980(3,22)	1280(4,20)

* ozone generator according to treatment needs. Might be larger than indicated

** oxygen concentrator to be included according to needs

“simple and cost effective compact systems”

DESCRIPTION

VADOF is a compact dissolved ozone flotation system, allowing a continuous advanced oxidation process mixed with sludge flotation, for stronger and powerful removal of difficult molecules, micro-pollutants and other elements not removable through standard flotation devices. With a lower CAPEX than a traditional display combining DAF and Ozone, offers also a LOWER OPEX for its simplicity and friendly operation.

Includes all safety features for a secured operation, special vents with ozone catalytic destructors, ozone leakage alarm for room area, fully closed unit with removable covers for access during maintenance.

OPERATION

It is a continuous operating waste water treatment plant, mixing precipitation/flocculation principle with dissolved ozone flotation for strong COD reduction, micro-pollutants removal, odour removal, colour removal, water clarification, with liquid chemical agents application, and with automatic adjustment of the pH value in reaction vessel.