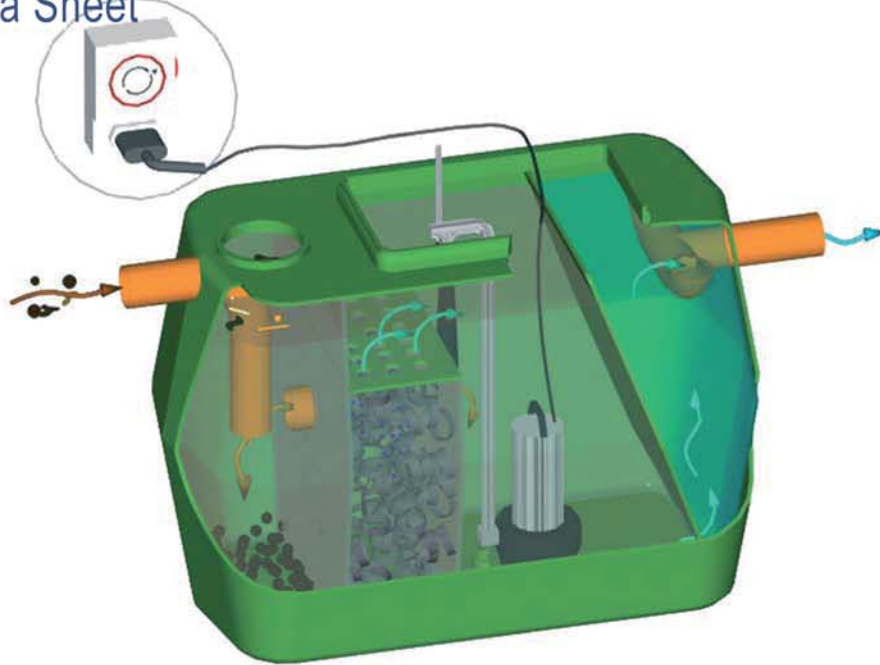


COMBINED BIOLOGICAL SYSTEM Mod. DEPURMEC® DM0.1

Technical Data Sheet



Description

DEPURMEC® mod. DM 0.1 is made of FRP (Fiberglass Reinforced Polyester). This is a patented system with a combined biological process featuring an activated sludge total oxidation process with adhered and dispersed biomasses designed for treating wastewater with a low organic load produced by manufacturing activities comparable to domestic users (craftsman's businesses, offices, commercial activities). The oxygenation system is controlled by a programmer clock and is performed by a submersible electric pump with cast iron Venturi ejector and outdoor air inlet pipe. The bacterial bed is formed by polypropylene filling vessels with a specific surface area of no less than 180 m²/m³. The system guarantees that the outlet water complies with the acceptability limits established by Italian Law Decree 152/06.

Technical Specifications

model DM0.1							
OPERATING PARAMETERS	Total net volume	Liters	1380	PROJECT DATA	Number of employees	up to	30
	Sludge Trap/oil separating volume	Liters	300		Unit water supply	1/head.days	50
	Oxidation-nitrification volume	Liters	880		Daily drainage volume	m ³	1.50
	Secondary settling volume	Liters	200		Mean/max daily flow rate	L/h	100/150
	Pump power rating	Watts	550		Organic pollution	gBOD/head.d	60
	Oxygen supplied	g/hour	> 40		Inlet BOD concentration	mg/l	300
	Primary/secondary settling time	hours	~1, >2		Outlet BOD concentration		30
	Settling inflow speed	m/h	0.3		Efficiency required		90%
	Volumetric organic load	kg BOD ₅ /m ³ d	0.3		BOD to remove	kg/d	0.81