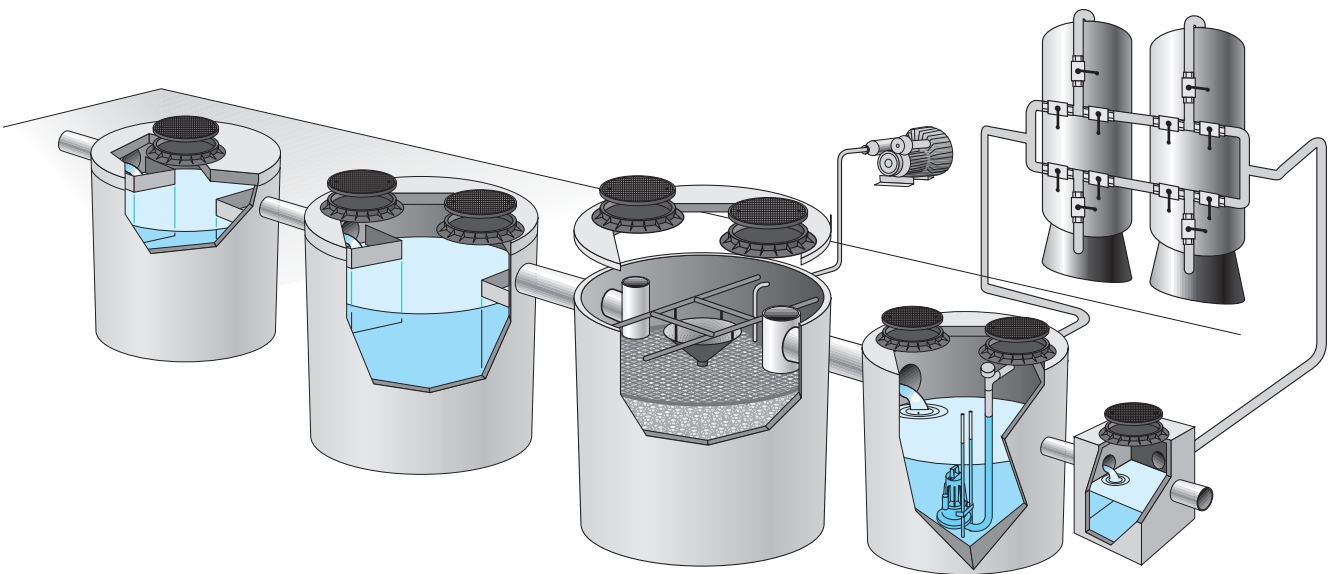


DEPURATION PLANTS FOR CAR WASHES WITH BIO-OXIDATION PROCESS

EUROBIOX series



WHAT BIO-OXIDATION PLANTS EUROBIOX SERIES ARE

Prefabricated bio-oxidation plants type EUROMEC EUROBIOX series are used for the depuration of discharge water coming from car washes and are dimensioned to allow the compliance of the discharge water with the acceptability limits stated on the Directive 91/271/CEE regarding the discharge in superficial water. They also allow the complete water recycling for the washing operations with a considerably quantity of recycled water and no odour problems.

Prefabricated bio-oxidation plants type EUROMEC EUROBIOX series are suitable for the depuration of discharge water coming from washes with hydro cleaner, manual, brushes and multi-track self washes. We guarantee their correct working and their management costs are limited because these installations do not require conditioning chemical products or qualified personnel to be operational.

Prefabricated bio-oxidation plants type EUROMEC EUROBIOX series are mainly composed of a monobloc highly resistant reinforced concrete tank, vertical-cylindrical shaped with a pre-installed biological filter inside made of highly specific surface plastic material, air diffusers and sludge/surface foam recycling equipment. The supply comprehends also the side-channels blower for the compressed air production and the electrical command and protection panel.

HOW BIO-OXIDATION PLANTS EUROBIOX SERIES WORK

Prefabricated bio-oxidation plants type EUROMEC EUROBIOX series imply a biological treatment of prolonged blowing on the "adherent biomass" after a series of sand separation and oil separation pre-treatments.

The sewage to be depurated goes from the top to the bottom of the bio-filter contained in the EUROBIOX reactor, counter current aerated with special air diffusers fed by a side-channels electroblower.

The biological film activated by the oxygenation determines the transformation of the polluted organic substances and their demolition.

The floating substances and sedimentable sludge are collected through a series of suitable hydro-pneumatic devices, which continuously recycle them to the pre-treatment section.

The outlet water is collected into the depurated water collection tank in order to be conveniently reused during the washing operations or also to be discharged to the final destination after having undergone a final quartziferous sand and active carbon filtering treatment.

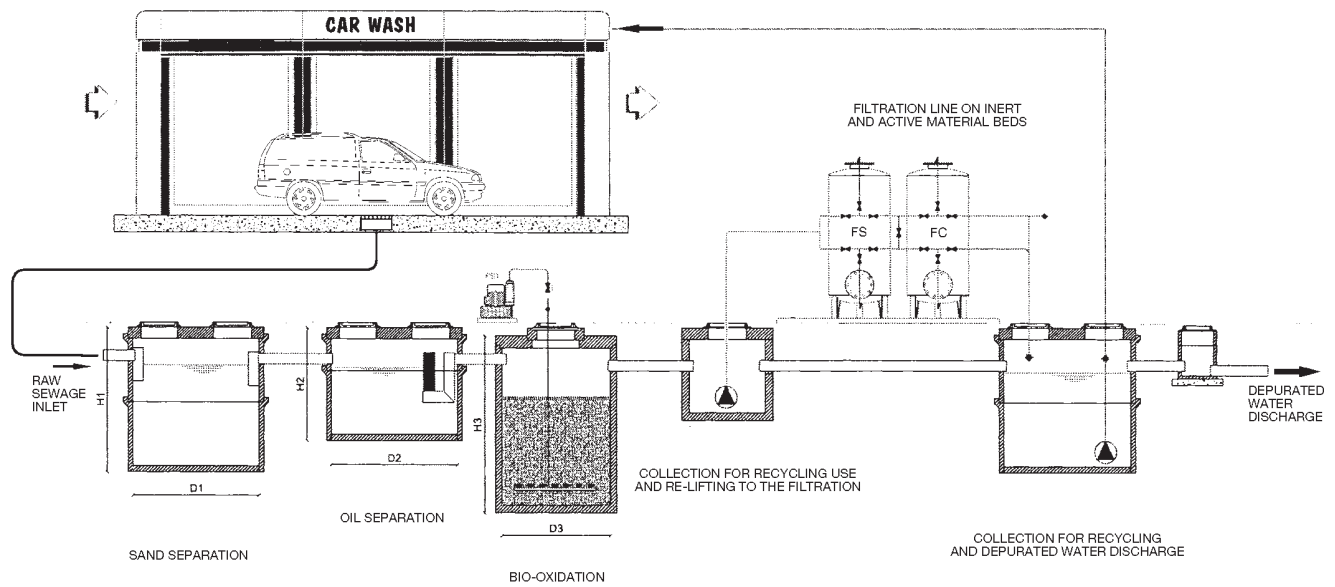
USED MATERIALS

Tanks	:	highly resistant vibrated reinforced concrete
By request	:	painted steel fiberglass
Shafts	:	concrete (by request D400 cast iron)
Piping	:	galvanized steel and polyethylene
By request	:	AISI 304 stainless steel

SPECIFICATION

"Supply of a prefabricated reinforced concrete bio-oxidation depuration plant type EUROMEC EUROBIOX series composed of a series of sand separation and oil separation pre-treatments, adherent biomass oxidation reactor with filling body made of highly specific surface plastic material with foam/sedimental sludge pneumatic recycling system, complete with side-channel blower for air production and electrical command and protection panel equipped with timer clock and all electromechanical parts necessary for a correct functioning. The supply also comprehends the final filtering section consisting of two columns filled with quartziferous sand and active carbon fed by a pump group."

STANDARD PRODUCTION



DESCRIPTION	MEASURE UNIT	MODEL	
		EUROBIOX 1	EUROBIOX 2
Nominal flow rate	mc/h	10,00	18,00
Daily washed cars	n.	160	250
Washing system	type	5 brushes / self 3 tracks	tunnel / self 6 tracks
Pre-treatment dimensions:			
- Sand separator diameter D1	cm	200	200
- Sand separator height H1	cm	228	228
- Oil separator diameter D2	cm	200	200
- Oil separator height H2	cm	178	228
Bio-oxidation dimensions:			
- Diameter D3	cm	250	250
- Height H3	cm	235	285
Air request	Nmc/h	65	80
Installed power	kW	0,8	0,1
Total weight	q.ls	220	260
Max. weight of a single element	q.ls	60	90

The above written data are given as information. The Society EURO MEC S.r.l. reserves the right to change them in every moment.