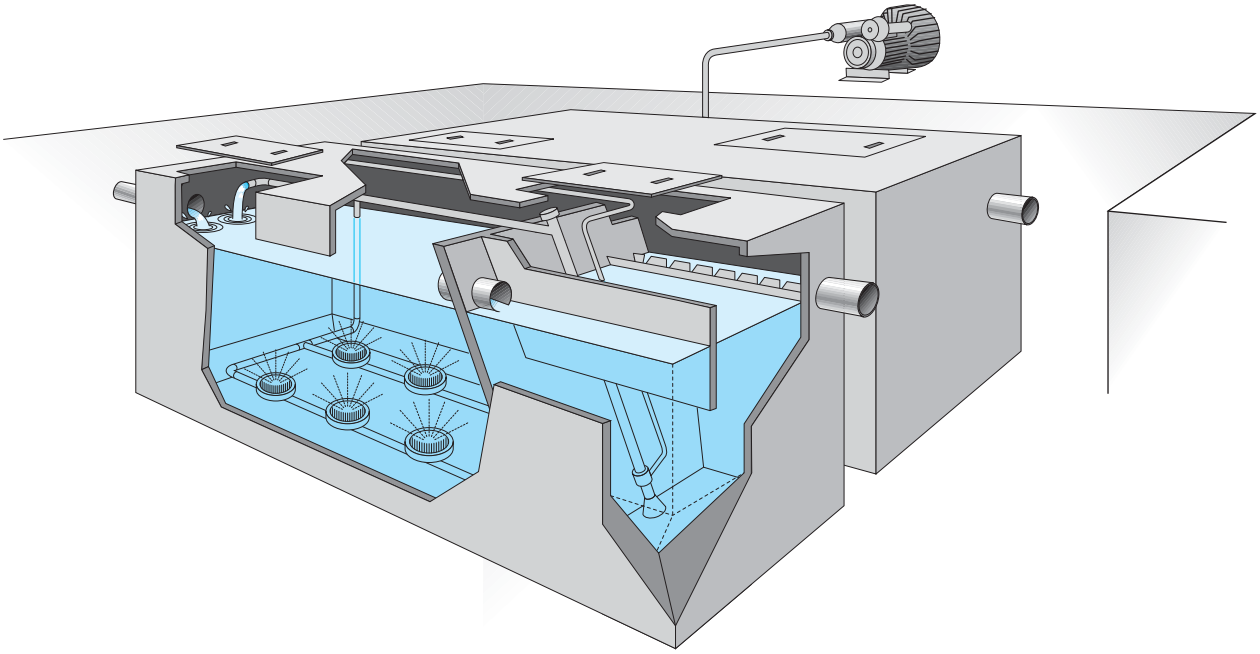
Technical file

MONOBLOC PARALLELEPIPED TOTAL OXIDATION PLANTS FROM 250 TO 800 EQUIVALENT POPULATION

OXI/P series



WHAT ARE TOTAL OXIDATION PLANTS OXI/P SERIES

Parallelepiped monobloc prefabricated tanks type EURO MEC OXI/P series for residential areas from 250 to 800 equivalent population are dimensioned in order to guarantee the acceptance limits to the discharge foreseen by the Directive 91/271/CEE for discharge in superficial water for superficial water discharge, principally composed of a parallelepiped basin horizontal axe divided inside into two sections: an oxidation section equipped with self-polishing membrane air diffusers and a final sedimentation with automatic sludge recycling.
The supply includes the blower type side channels for the production of compressed air and the general command and protection electric panel.
The basins of the *prefabricated monobloc tanks* type EURO MEC OXI/P series are composed of monolithic tanks made of reinforced concrete to guarantee any leak absence and any absence of ground infiltrations and can be installed even in presence of ground water.

HOW TOTAL OXIDATION PLANTS OXI/P SERIES WORK

Monobloc parallelepiped prefabricated plants type EURO MEC OXI/P series are divided into the following sections: one for biological oxidation, where by means of aeration through air insufflation, happens the complete reduction of sewage organic substance; one of sedimentation, where sludge separation is obtained, which settle on the bottom, and skimming clarified water is send to the discharge.
Active sludge, collected from the bottom of the sedimentation section, is recycled in continuous by means of a pneumatic ejector to the oxidation, respect to overflow sludge, coming from biological increase, which is periodically extracted.

With the use of timers, that command the on/off of the blower, the functioning of *parallepiped monobloc prefabricated tanks* type EURO MEC OXI/P series can be fully automised.

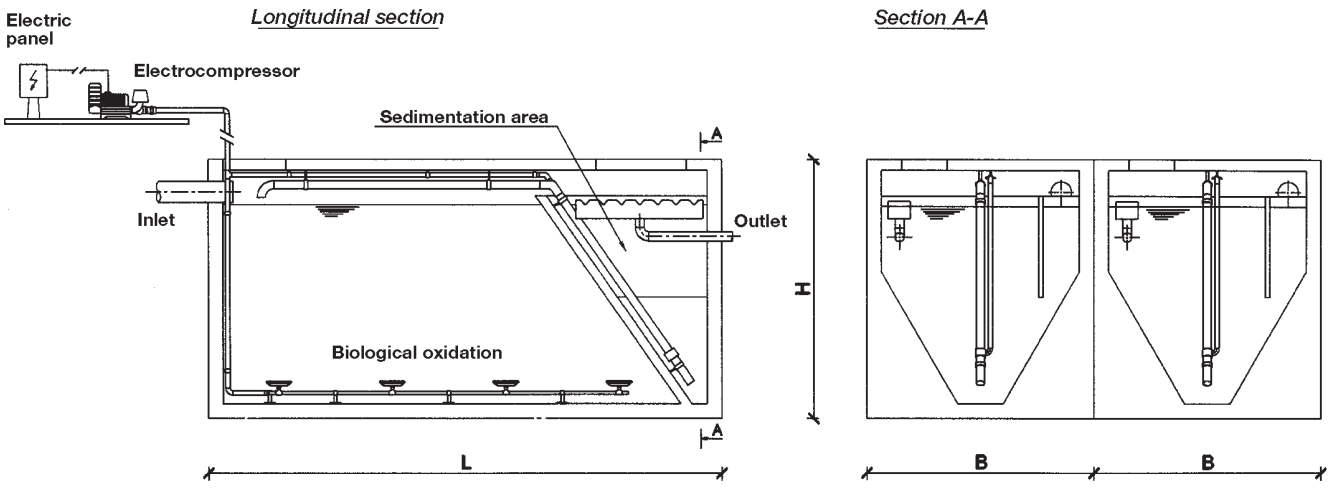
USED MATERIALS

Tanks	:	highly resistant reinforced vibrated concrete
By request	:	painted steel fiberglass
Shafts	:	concrete (if requested class D 400 cast iron)
Piping	:	galvanised steel and polyethylene
By request	:	stainless steel AISI 304

SPECIFICATION

"Supply of prefabricated total oxidation depuration plant made of reinforced concrete type EURO MEC OXI/P series composed of a monolithic parallelepiped tank made of reinforced concrete horizontal axe divided inside into a biological oxidation section and a final sludge sedimentation section, complete with sewage inlet and outlet connection pipes, inspection shafts made of concrete, self-polishing membrane air diffusers, command and protection electric panel with timer and all other electromechanical parts for the correct functioning."

STANDARD PRODUCTION



Parallelepiped monobloc total oxidation OXI/P series
For discharge in superficial water – Directive 91/271/CEE

DESCRIPTION	MEASURE UNIT	MODEL						
		OXI/P 250	OXI/P 300	OXI/P 400	OXI/P 500	OXI/P 600	OXI/P 700	OXI/P 800
Equivalent population	n.	250	300	400	500	600	700	800
Daily flow rate	mc/g	37,50	45	60	75	90	105	120
Daily organic load (BOD5)	Kg/g	15	18	24	30	36	42	48
Oxidation volume	mc	37,50	45	60	75	90	105	120
Sedimentation volume	mc	7	10	13	17	25	29	34
Sedimentation surface	mq	5,70	6,83	9,10	11,40	13,67	15,95	18,23
Air request	mc/h	115	115	190	230	230	380	380
Lift	mm	2000	2000	2000	2000	2000	2000	2000
Installed power	kW	2,2	2,2	3,00	2 x 2,2	2 x 2,2	2 x 3,00	2 x 3,00
Blowers	n.	24	24	32	36	36	48	48
Oxidation modules	n.	-	-	-	2	2	2	2
Combined modules Ox. and Sedim.	n.	2	2	2	2	2	2	2
* Length	cm	600	700	800	500	600	700	800
DIMENSIONS * Width B	cm	250	250	250	250	250	250	250
* Height H	cm	250	250	250	250	250	250	250
Total weight	q.ls	460	520	600	720	920	1040	1120

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

The plants can be supplied with hydraulic flow rates and organic loads even different from the ones in the schedule, which are of 150 l/inhab. g. and of 60 g BOD5/inhab. g.