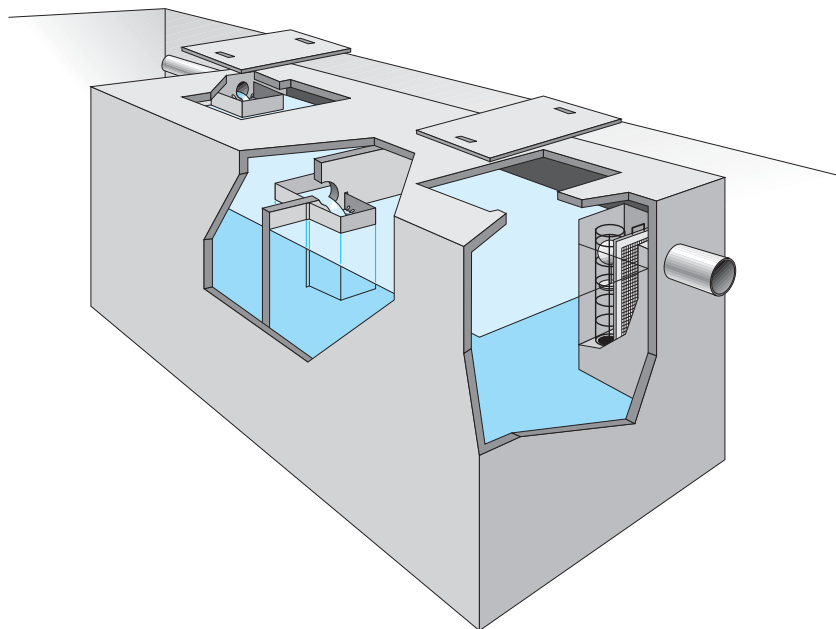


MONOBLOC SEPARATORS FOR INDOOR PARKING GARAGES

SO/C series



WHAT MONOBLOC SEPARATORS FOR INDOOR PARKING GARAGES SO/C SERIES ARE

Monobloc prefabricated separators type EURO MEC SO/C series are dimensioned according to the DIN 1999 regulations in compliance with the Directive 91/271/CEE regarding the discharge in public sewers or superficial water of fluctuating substances and sedimentable solids.

These separators are used for the depuration of water coming from the washes of floorings in indoor parking garages (silos) which are mainly polluted by accidental losses from parked cars containing mineral oils, sand and mud.

Monobloc prefabricated separators type EURO MEC SO/C series are composed of a monobloc highly resistant reinforced concrete rectangular tank with flat bottom guaranteeing a total absence of leakages and infiltrations into the ground and can be installed also in presence of ground water into the excavation.

The tank is divided into two sections: the sand separation section and the oil separation section.

The cover is carriageable and complete with concrete inspection manholes.

Monobloc prefabricated separators type EURO MEC SO/C series used for the treatment of sewage water discharge into surface water are completed with a coalescence filter separating also the suspended oil microparticles.

All SO/C models are equipped also with a floating obstructor in order to avoid oil spilling when the collection chamber is completely full.

HOW MONOBLOC SEPARATORS FOR INDOOR PARKING GARAGES SO/C SERIES WORK

The water coming from the lawful hydrants for the floorings washes is conveyed to a specific zone of the separator for its treatment before being sent to the final collector.

As soon as it comes to the separator the water starts its treatment into the sand separation section or sludge separation section for an optimal time allowing the separation of the sedimentable substances. The pre-treated water is therefore sent through the oil separation section in which it undergoes a light substances fluctuation

process, which conveys such substances into a collection chamber once they reach the surface.

For the discharge water having to comply with the acceptance limits of the Directive 91/271/CEE there is the addition of a coalescence filter, a system allowing the microparticles adherence to a particular coalescent material (absorption effect) therefore increasing their dimensions (coalescence effect) and favouring their fluctuation to surface.

The separator discharge is automatically shut by a floating obstructor preventing oil spilling when the latter reaches a certain level in the collection chamber.

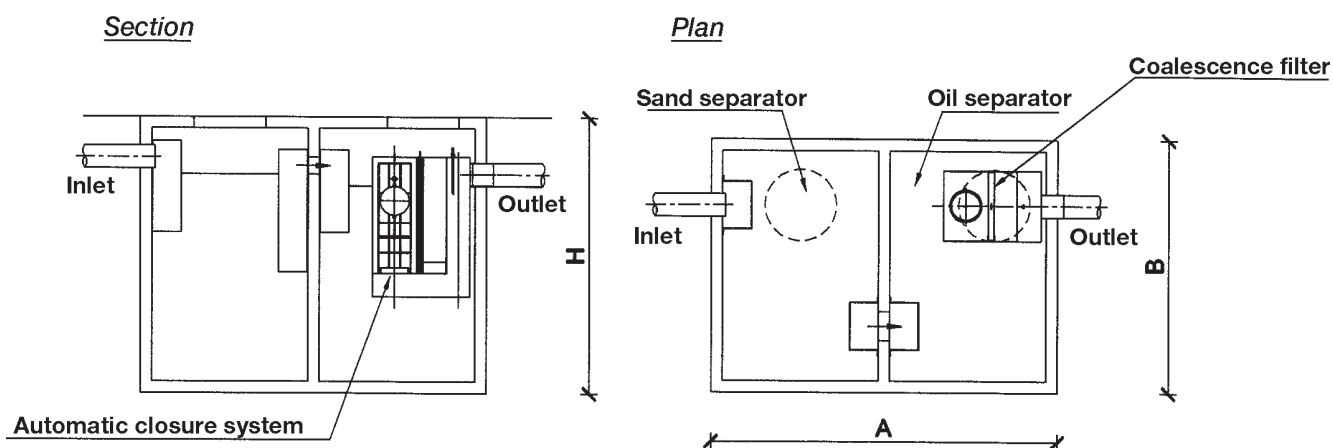
USED MATERIALS

Tanks	:	highly resistant vibrated reinforced concrete
Shafts	:	concrete
By request	:	hot galvanized steel AISI 304 stainless steel Cast iron D400
Internal carpentry	:	AISI 304 stainless steel

SPECIFICATION

"Supply of a separator type EURO MEC SO/C series dimensioned according to the DIN 1999 prescriptions, prefabricated monobloc parallelepiped for the treatment of water coming from the washes of covered parking garages floorings (silos), made of highly resistant reinforced concrete, divided into two sections: sand separation and oil separation, complete with stainless steel deflectors, coalescence filter, floating obstructor, carriageable cover for heavy loads and inspection manholes."

STANDARD PRODUCTION



PROJECT DATA:

Surface for each car
Max. mineral oil pollution at the inlet
Depuration efficiency
Max. mineral oil pollution at the outlet

DICHARGE INTO DRAINAGE SYSTEM

$s = 25 \text{ sq m}$
 $E = 125 \text{ mg/l}$
 $n = 92\%$
 $D = 10 \text{ mg/l}$

DISCHARGE INTO SUPERFICIAL WATER

$s = 25 \text{ sq m}$
 $E = 125 \text{ mg/l}$
 $n = 97\%$
 $D = 5 \text{ mg/l}$

DESCRIPTION	MEASURE UNIT	MODEL								
		SO/C 2	SO/C 4	SO/C 5	SO/C 10	SO/C 15	SO/C 20	SO/C 30	SO/C 40	SO/C 50
Nominal flow rate	l/s	1,2	2,4	3,6	6	9,6	12	18	24	30
Treated surface	Sq m	600	1200	1500	3000	4500	6000	9000	12000	15000
Max car n.	N	20	40	50	100	150	200	300	400	500
External width B	cm	160	160	160	160	220	220	220	220	220
External length A	cm	170	170	170	220	220	260	410	550	600
Total height H	cm	170	170	220	220	220	220	220	220	240
Inlet/outlet piping diameter	mm	160	160	160	160	160	160	160	300	300
Inlet level	cm	30	30	30	30	30	30	30	50	50
Outlet level	cm	38	38	38	38	38	38	38	65	65
Total weight	q.ls	45	45	55	65	82	90	120	160	180

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 suitable separator is determined according to the nominal flow rate or alternatively to the collection surface for the washes water or the number of parked cars.
For the discharge into superficial water (Directive 91/271/CEE) the use of a coalescence filter is necessary.