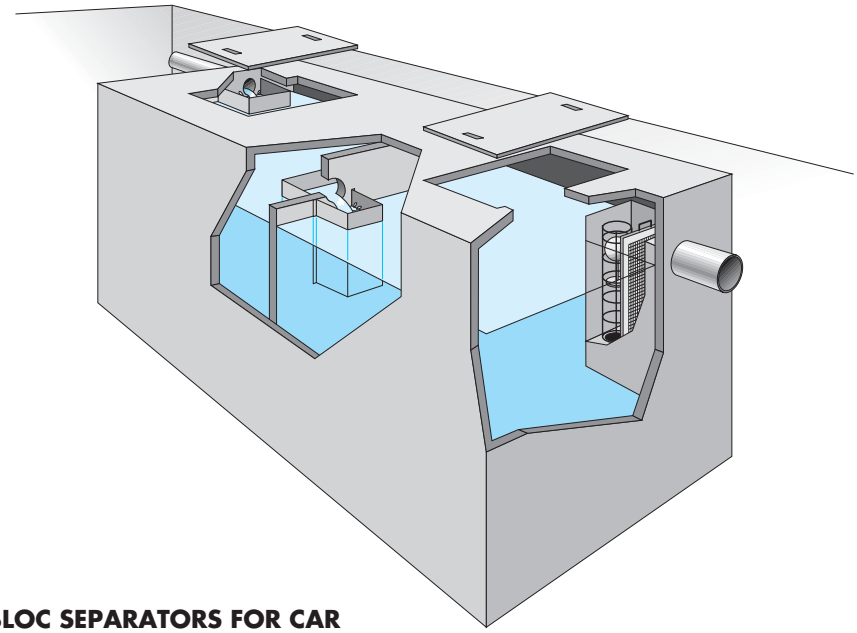
MONOBLOC SEPARATORS FOR CAR STATIONS, CAR PARKING, CAR DEMOLITION SITES, INDOOR PARKING GARAGES

SO/P series



WHAT ARE MONOBLOC SEPARATORS FOR CAR STATIONS, CAR PARKINGS, CAR DEMOLITION SITES, INDOOR PARKING GARAGES SO/P SERIES

Monobloc prefabricated separators type EURO MEC SO/P series are dimensioned according to the DIN 1999 regulations and therefore ensure the compliance with the acceptability parameters 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 to depurate water coming from car stations, car parkings and/or car demolition sites, which are mainly polluted by accidental spilling of parked cars, mineral oils, sand and mud.

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

The tank is separated into two sections: sand separation and oil separation. The cover is carriageable and complete with concrete inspection manholes.

Monobloc prefabricated separators type EURO MEC SO/P series are used for the depuration of sewage water before their discharge into superficial water (Directive 91/271/CEE) and are complete with a coalescence filter separating also the suspended oil microparticles.

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

HOW MONOBLOC SEPARATORS FOR CAR STATIONS, CAR PARKINGS, CAR DEMOLITION SITES, INDOOR PARKING GARAGES SO/P SERIES WORK

The parkings subject to meteoric precipitations have to be equipped to carry such precipitations into a single point in which the separator will be located.

The water starts its treatment as soon as it reaches the separator and will stay into the sand separation section or sludge separator for an optimal separation of the sedimentable substances. This pre-treated water is subsequently sent to the oil separator in which the light substances in the water undergo a fluctuation treatment and then collected into a chamber as soon as they reach the surface.

The discharge water which has to comply with the acceptance limits stated on the Directive 91/271/CEE for the discharge into superficial water through the use of a coalescence filter. Thanks to this filter the micro- particles adhere to a particular coalescent material (absorption effect), join up (coalescence effect) favouring their fluctuation into surface.

The separator discharge is automatically closed by a floating shutter to prevent oil spilling when it reaches a certain level in the collection chamber.

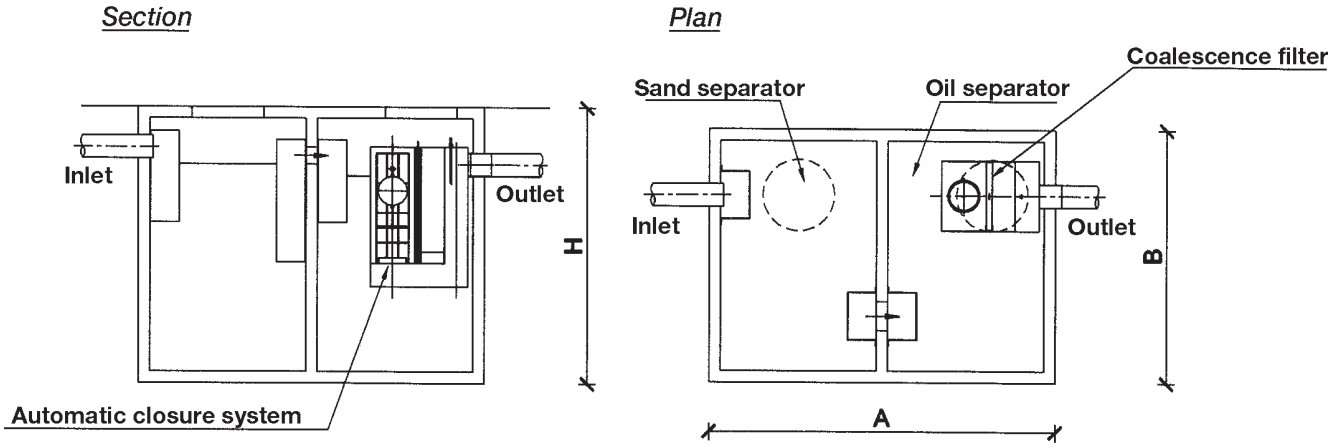
USED MATERIALS

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

SPECIFICATION

"Supply of a monobloc separator type EURO MEC SO/P series, dimensioned according to the DIN 1999 prescriptions, monobloc parallelepiped prefabricated tank for the treatment of water coming from car stations, car parkings, car demolition sites, indoor parking garages made of highly resistant reinforced concrete divided into two sections, one for sand separation and one for oil separation, complete with stainless steel deflectors, coalescence filter, discharge device with floating obstructor with carriageable cover apt for heavy loads complete with inspection manholes."

STANDARD PRODUCTION



PROJECT DATA:

	DICHARGE INTO DRAINAGE SYSTEM	DISCHARGE INTO SUPERFICIAL WATER
Fallen rain quantity	q = 0,015 l/s x sq m	q = 0,015 l/s x sq m
Surface for each car	s = 25 sq m	s = 25 sq m
Max. mineral oil pollution at the inlet	E = 125 mg/l	E = 125 mg/l
Depuration efficiency	n = 92%	n = 97%
Max. mineral oil pollution at the outlet	D = 10 mg/l	D = 5 mg/l

DESCRIPTION		MEASURE UNIT	MODEL						
			SO/P 5	SO/P 10	SO/P 25	SO/P 50	SO/P 75	SO/P 100	SO/P 125
Nominal flow rate		l/s	1,87	3,75	9,37	18,75	28,12	37,50	46,87
Treated surface		Sq m	130	250	650	1250	1900	2500	3150
Max. car number		N	5	10	25	50	75	100	125
External width	B	cm	160	160	220	220	220	250	250
External length	A	cm	170	170	220	410	600	600	750
Total height	H	cm	170	220	220	220	240	270	270
Inlet/outlet pipe diameter		mm	160	160	160	160	300	300	300
Inlet level		cm	30	30	30	30	50	50	50
Outlet level		cm	40	40	40	40	65	65	65
Total weight		q.ls	45	55	85	120	180	220	280

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 chosen according to the nominal flow rate or alternatively to the meteoric water collection surface or to the parked cars number.
The superficial discharge water (Directive 91/271/CEE) needs the use of a coalescence filter.