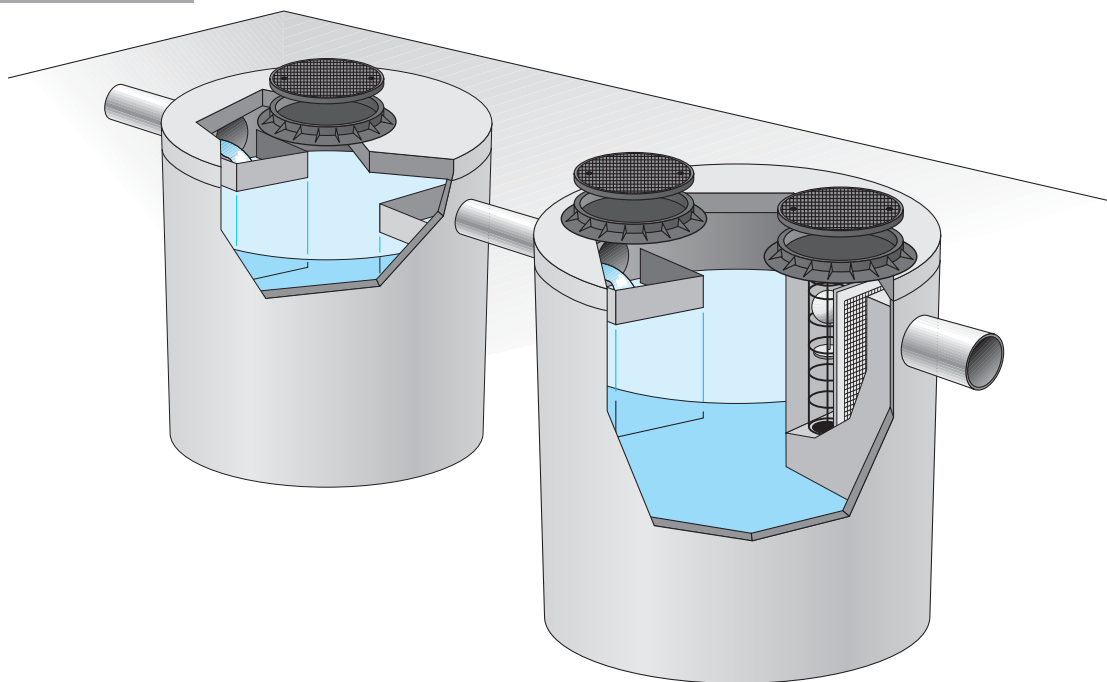


MINERAL OILS SEPARATORS FOR CAR STATIONS, CAR PARKINGS, CAR DEMOLITION SITES AND INDOOR PARKING GARAGES

SA/P series



WHAT MINERAL OILS SEPARATORS FOR CAR STATIONS, CAR PARKINGS, CAR DEMOLITION SITES AND INDOOR PARKING GARAGES SA/P SERIES ARE

Prefabricated mineral oils separators type EURO MEC SA/P series are dimensioned according to the DIN 1999 regulations in compliance with the acceptance parameters of the Directive 91/271/CEE regarding the discharge in public sewers or superficial water of fluctuating substances and sedimentable solids. They are used to depurate the water coming from car stations, car parkings and/or demolition sites, which are mainly polluted by accidental losses from parked cars with presence of mineral oils, sand and mud.

Prefabricated mineral oils separators type EURO MEC SA/P series are composed of two highly resistant reinforced concrete circular tanks with flat bottom.

The installation has two distinct basins: one for the sand separation and one for the oil separation section.

The cover is carriageable and complete with D400 cast iron inspection manholes.

Prefabricated mineral oils separators type EURO MEC SA/P series used for the treatment of sewage water discharge into surface water (Directive 91/271/CEE) are completed with a coalescence filter separating also the suspended oil microparticles.

Prefabricated mineral oils separators type EURO MEC SA/P series are equipped also with a floating obstructor in order to avoid oil spilling when the collection chamber is completely full.

HOW MINERAL OILS SEPARATORS FOR CAR STATIONS, CAR PARKINGS, CAR DEMOLITION SITES AND INDOOR PARKING GARAGES SA/P SERIES WORK

The parking lots interested by meteoric precipitations have to be predisposed to convey the water into a single point in which the separator will be located.

As it reaches the separator water starts its treatment into the sand separation section or the 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 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

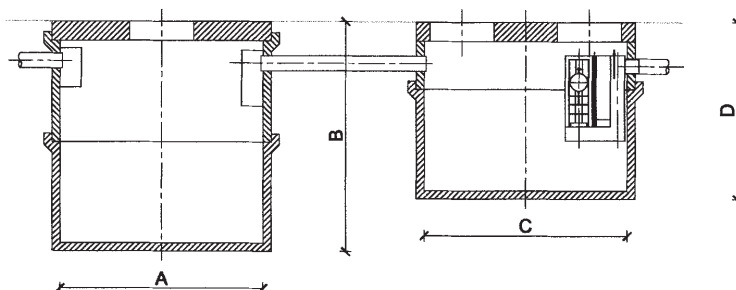
Tanks	:	highly resistant vibrated reinforced concrete
Shafts	:	D400 cast iron
Internal carpentry	:	AISI 304 stainless steel

SPECIFICATION

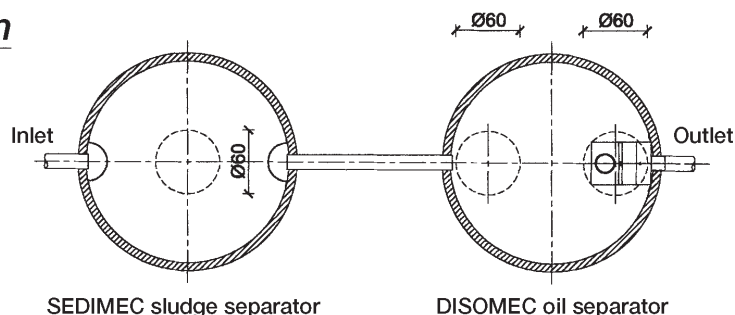
"Supply of a separator type EURO MEC SA/P series dimensioned according to the DIN 1999 prescriptions, prefabricated for the treatment of water coming from car stations, parkings and/or car demolition sites, made of highly resistant reinforced concrete, divided into two sections: sand separation and oil separation, complete with stainless steel deflectors, coalescence filter, floating obstructor, carriageable cover for heavy loads and D400 cast iron inspection manholes."

STANDARD PRODUCTION

Section



Plan



PROJECT DATA:

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

DICHARGE INTO DRAINAGE SYSTEM

$q = 0,015 \text{ l/s} \times \text{sq m}$
 $s = 25 \text{ sq m}$
 $E = 125 \text{ mg/l}$
 $n = 92\%$
 $D = 10 \text{ mg/l}$

DISCHARGE INTO SUPERFICIAL WATER

$q = 0,015 \text{ l/s} \times \text{sq m}$
 $s = 25 \text{ sq m}$
 $E = 125 \text{ mg/l}$
 $n = 97\%$
 $D = 5 \text{ mg/l}$

DESCRIPTION	MEASURE UNIT	MODEL								
		SA/P NG 4	SA/P NG 6	SA/P NG 8	SA/P NG 10	SA/P NG 15	SA/P NG 20	SA/P NG 30	SA/P NG 40	SA/P NG 50
Nominal flow rate	l/s	4,00	6,00	8,00	10,00	15,00	20,00	30,00	40,00	50,00
Treated surface, max.	Smq	300	400	500	700	1000	1300	2000	2700	3500
Max. parked car n.	N.	12	16	20	28	40	52	80	108	140
Sand separator volume	l	1300	2100	3000	3000	5400	6500	6500	6500	10000
Oil separator volume	l	990	2280	2280	2280	3700	3700	5300	6600	10000
Oil collection volume	l	150	235	235	235	600	600	750	1300	2000
Sand separator dimensions		(*)								
- diametro A	cm	-	140	150	150	200	200	200	200	250
- altezza B	cm	-	175	218	268	229	229	279	279	285
Dimensioni disoleatore		(*)								
- diametro C	cm	140	140	140	140	200	200	200	200	250
- height D	cm	175	175	175	175	179	179	229	279	285
Inlet/outlet piping diameter	mm	160	160	160	160	200	200	250	300	400
Inlet level	cm	41	39	39	39	50	50	55	60	65
Outlet level	cm	43	43	43	43	54	54	59	64	70
Total weight	q.ls	25	45	48	51	121	129	141	149	220
Heaviest piece weight	q.ls	25	25	25	25	30	30	30	30	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.

(*) version integrated into a monobloc tank