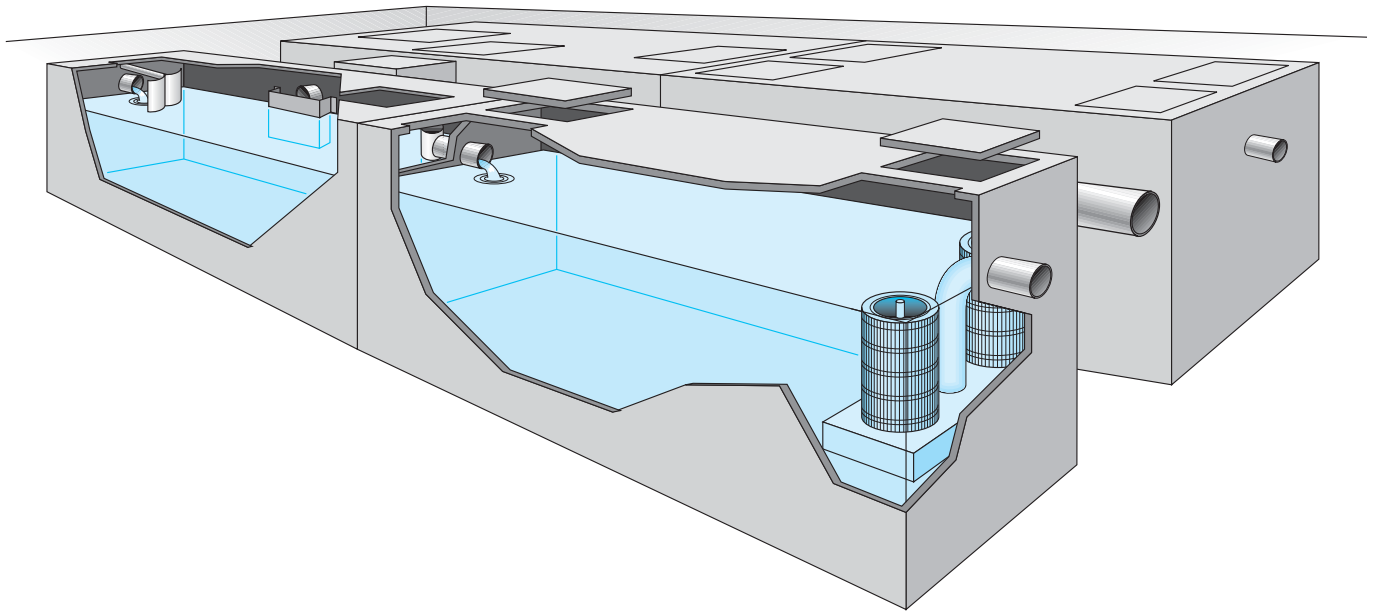


RAIN WATER TREATMENT PLANTS AND EQUIPMENT

MONOBLOC PARALLELEPIPED FIRST RAIN WATER TREATMENT PLANTS FOR LARGE SURFACE AREAS

Installations for large surface areas with continuous first rain water treatment system

IPP/GS series



MONOBLOC PARALLELEPIPED FIRST RAIN WATER TREATMENT PLANTS FOR LARGE SURFACE AREAS, SERIES IPP/GS

First rain water treatment plants, EURO MEC series IPP/GS, are designed in compliance with all relevant Norms and standards. Their correct use allows the reduction of the ground water pollution and impoverishment as they convey storm water into sewers or on site after separating the first rain water.

The plants are used to purify rain water coming from service areas, parking lots and/or auto wrecking yards where the main pollutants come from oil and other substances leaking or coming off vehicles such as mineral oils, sand and dirt.

Euro Mec's first rain water treatment plants, series IPP/GS, are parallelepiped, monobloc tanks made of highly resistant reinforced concrete.

They have carriageable covers and are complete with D400 cast iron manholes.

HOW MONOBLOC PARALLELEPIPED FIRST RAIN WATER TREATMENT PLANTS FOR LARGE SURFACE AREAS WORK

Rain water coming off large surface areas as described above is usually polluted with sand, soil and mineral oils.

Areas likely to collect rain water need to be designed in a way that directs the total rain water to one point at which a separator will be located. First rain waters start the treatment in the sand separation or mud separation sections for the amount of time necessary to allow the separation of any settleable solids from the water. Following this pre-treatment the water passes on through an oil separation process where any light substances are floated and thus separated from the water.

The first rain waters are directed by a series of thresholds calibrated according to the surface area they are serving and separated from the following, less polluted rain water which goes directly to its next destination via a by-pass.

Any water re-released into the environment must meet specific quality standards according to local and international Norms, for this reason water from this rain water treatment plant passed through a coalescence filter before being discharged into the environment. This system causes oil micro-particles to adhere to a coalescent material (a form of absorbance) and, as the process continues the trapped micro-particles increase and enable the collection of larger particles (coalescence).

Waste from the separator is automatically contained by a floating shutter system which stops the exit of oils when they arrive at a predetermined level in the collection chamber.

MATERIALS USED

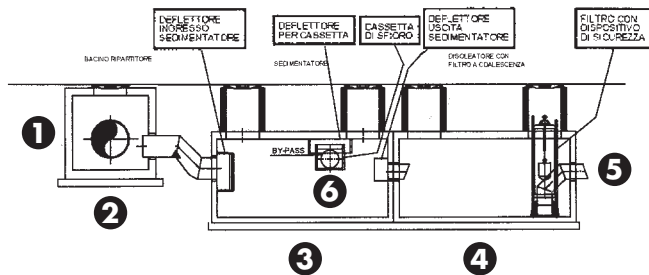
Tanks	:	highly resistant reinforced vibrated concrete
Shafts	:	lass D400 cast iron
Internal carpentry	:	AISI 304 stainless steel

SPECIFICATION

Supply of Euro Mec's monobloc parallelepiped first rain water treatment plant IPP/GS for the continuous treatment of first rain water, realized with prefabricated parallelepiped tanks in high resistance reinforced concrete, subdivided into two basins; one for sand separation and the other for oil separation, complete with stainless steel deflectors, coalescence filter, a waste outlet floating shutter device, heavy duty carriageable cover and D400 cast iron manholes.

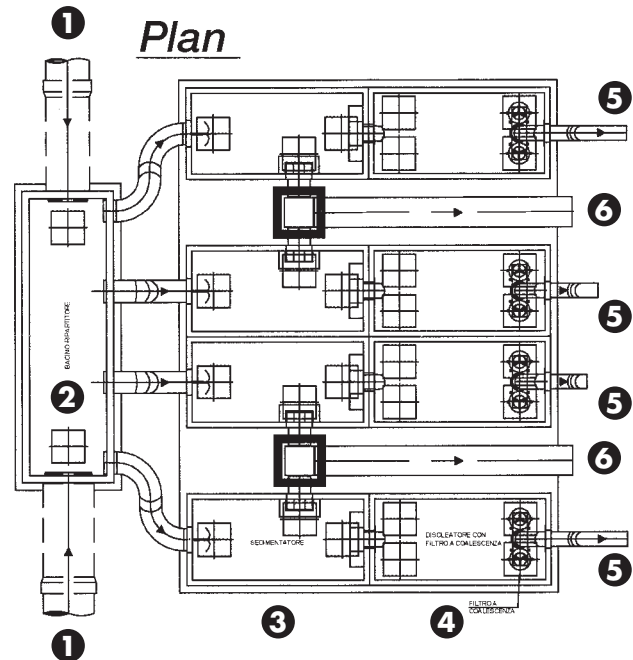
STANDARD PRODUCTION

Section



- 1 - Raw water inlet
- 2 - Flow divider
- 3 - Sand separation basin
- 4 - Oil separation basin
- 5 - Treated water outlet
- 6 - By-pass for second rain water

Plan



DESCRIPTION	MEASURE UNIT	MODEL									
		IPP/GS NG 100	IPP/GS NG 125	IPP/GS NG 150	IPP/GS NG 200	IPP/GS NG 250	IPP/GS NG 300	IPP/GS NG 350	IPP/GS NG 400	IPP/GS NG 500	
Nominal flow rate	l/s	100	125	150	200	250	300	350	400	500	
Total volume	mc	42	56,2	72,0	108,0	150,0	198,0	252,0	312,0	450,0	
Sand separator volume	mc	20	25	30	40	50	60	70	80	100	
Total water surface area	m ²	20	25	30	40	50	60	70	80	100	
Quantity sand separation tanks	n	1	1	1	2	2	2	3	3	4	
Dimensions of each tank											
- length	m	5,00	6,00	7,50	5,00	6,00	7,50	5,50	7,00	6,00	
- width	m	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	
- height	m	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70	
Quantity oil separation tanks	n	1	1	1	2	2	2	3	3	4	
Dimensions of each tank											
- length	m	5,00	6,00	7,50	5,00	6,00	7,50	5,50	7,00	6,00	
- width	m	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	
- height	m	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70	2,70	
Weight of each tank	q.l.s	193	225	256	193	225	256	193	250	225	

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