PILE CLOTH FILTERS

Filtration systems

MITA Pile Cloth Filters are designed to provide both surface and deep filtration, combining the advantages of these two techniques. The filters utilise special types of cloth made from free fibers, which ensure high mechanical strength and excellent separation of solids.

The cloth is either fitted on a drum or stacked on a vertical shaft, depending on the model. These filters are made of durable AISI 304 stainless steel, ensuring longevity and resistance to corrosion.

The operating principle of MITA Pile Cloth Filters is based on gravity flow. The unit remains completely at rest during the filtration process, eliminating the need for reserve units or service water. The water to be treated is directed to the filter's containment tank, which operates submerged. As the water passes through the filter cloth, the solids are captured and retained by the fibers. The clean water is then discharged through the drum or the central shaft of the filter.

To maintain optimal filtration capacity, MITA Pile Cloth Filters are equipped with a backwash system. When the differential pressure reaches a certain level, the backwash device is activated. This device, consisting of suction pumps and nozzles, removes the solids trapped in the cloth, restoring the filter's efficiency. The removed sludge and suction water are returned upstream, minimizing waste and environmental impact.

By incorporating these filters into the treatment process, impressive results can be achieved, with solids removal rates between 50% and 80% of the TSS (Total Suspended Solids) in the feed sample. The filters can reduce the effluent's TSS levels to as low as <5 mg/L and achieve total phosphorus values of 0.25 mg/L with the addition of ferric dosing. MITA Pile Cloth Filters are versatile and can be applied in various wastewater treatment scenarios.

Their primary use is in tertiary treatment, where they act as a final treatment stage before the discharge of treated wastewater. These filters have proven to be effective in reducing both solids and phosphorus levels, ensuring compliance with strict environmental regulations.

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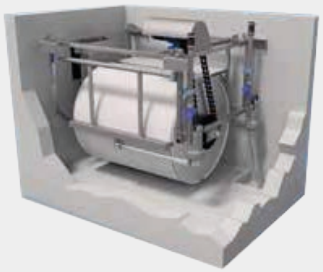
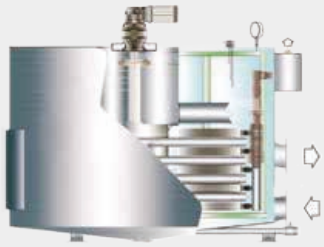
Drum series

Model*	Drum dimensions mm	Filtering surface m²	Motor power kW	Input kW
TF 2	Ø 740 x 935	2,00	1,98	0,86
TF 4	Ø 1.200 x 1.050	4,00	1,98	0,86
TF 6	Ø 1.320 x 1.510	6,00	1,98	0,86



Disc series

MSF PECV-VM Model	Surface m²	No. filtering discs	Motor power kW	Input kW
2/10	10	2	2,75	1,32
4/20	20	4	3,85	2,20
6/30	30	6	6,05	2,20



Model*	Drum dimensions mm	Filtering surface m²	Motor power kW	Input kW
MSF 2/10	2.100	10	2,57	1,18
MSF 4/20	2.100	20	4,77	2,06
MSF 6/30	2.100	30	6,97	2,06
MSF 8/40	2.100	40	6,97	2,06
MSF 10/50	2.100	50	9,35	2,20
MSF 12/60	2.100	60	9,35	2,20
MSF 14/70	2.100	70	7,15	2,20
MSF 16/80	2.100	80	7,15	2,20
MSF 18/90	2.100	90	7,15	2,20
MSF 20/100	2.100	100	7,15	2,20
MSF 22/110	2.100	110	7,15	2,20
MSF 24/120	2.100	120	7,15	2,20
MSF 28/140	2.100	140	11,75	4,12
MSF 32/160	2.100	160	11,75	4,12

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