

FILTOMAT® MCFM SERIES

*Automatic continuous
self-cleaning filter for high flow
rates and high dirt loads*



*Easy to install, operate and
maintain*



*Line pressure operation - even
low pressure*



*High flow rates in a compact
design*

*100% cleaning on both sides of
the fine screen*



Hydraulic or electric control



Short payback period



How do the MCFM filters work ?

The **MCFM** series filter removes dirt particles as water flows through the coarse (2) and fine screens (6) to the outlet (7). The PLC controls the self-cleaning modes required according to type of dirt and dirt loads. The self-cleaning cycle modes include:

- Continuous flushing
- ΔP and time triggered
- ΔP flushing

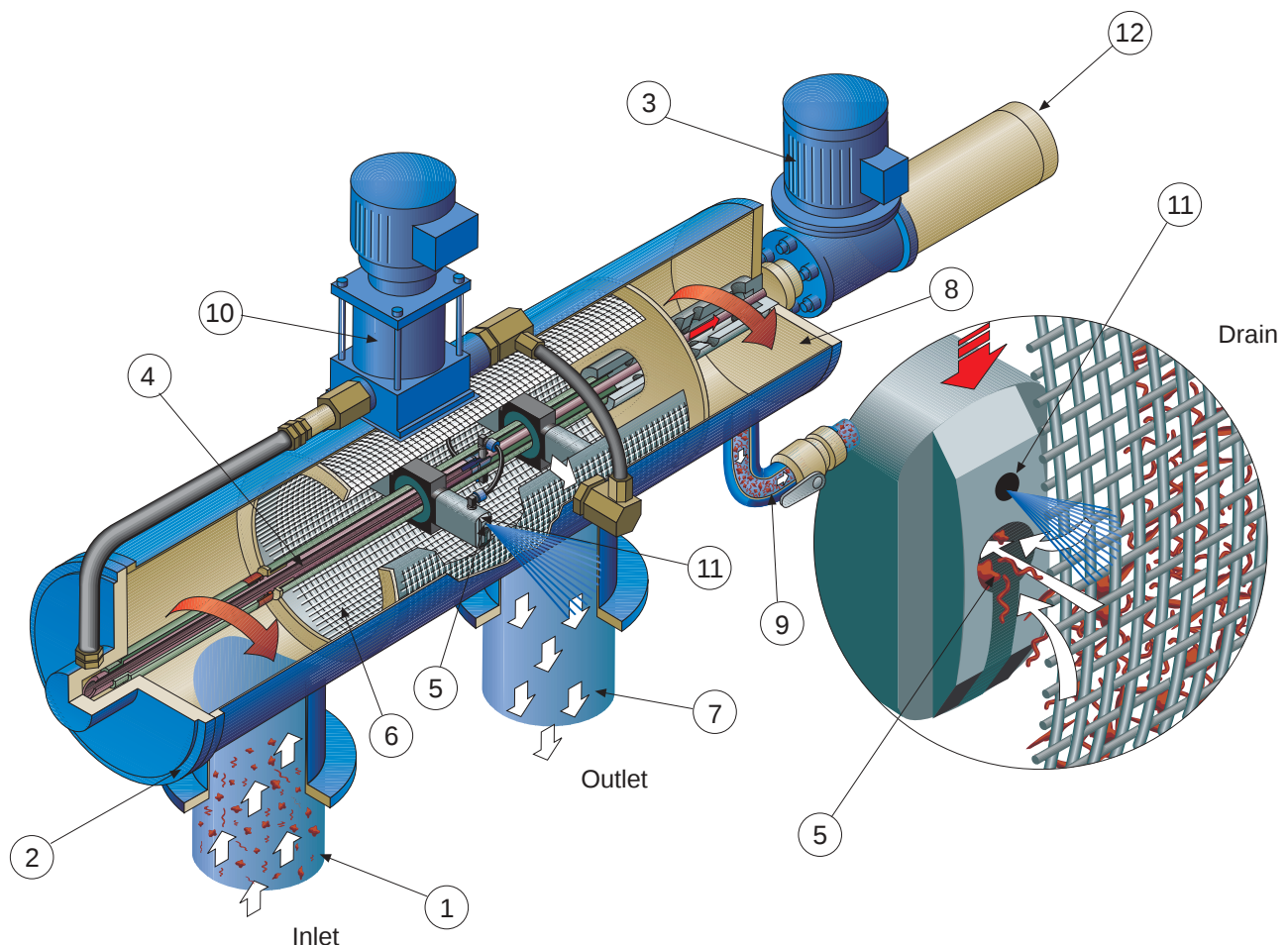
In the flush mode, the drain chamber (8) is always open releasing a continuous flow of

a small quantity of water to the atmosphere through the continuous flushing drain valve (9) and the superflush valve. Input from ΔP and $H\Delta P$ switches opens these valves.

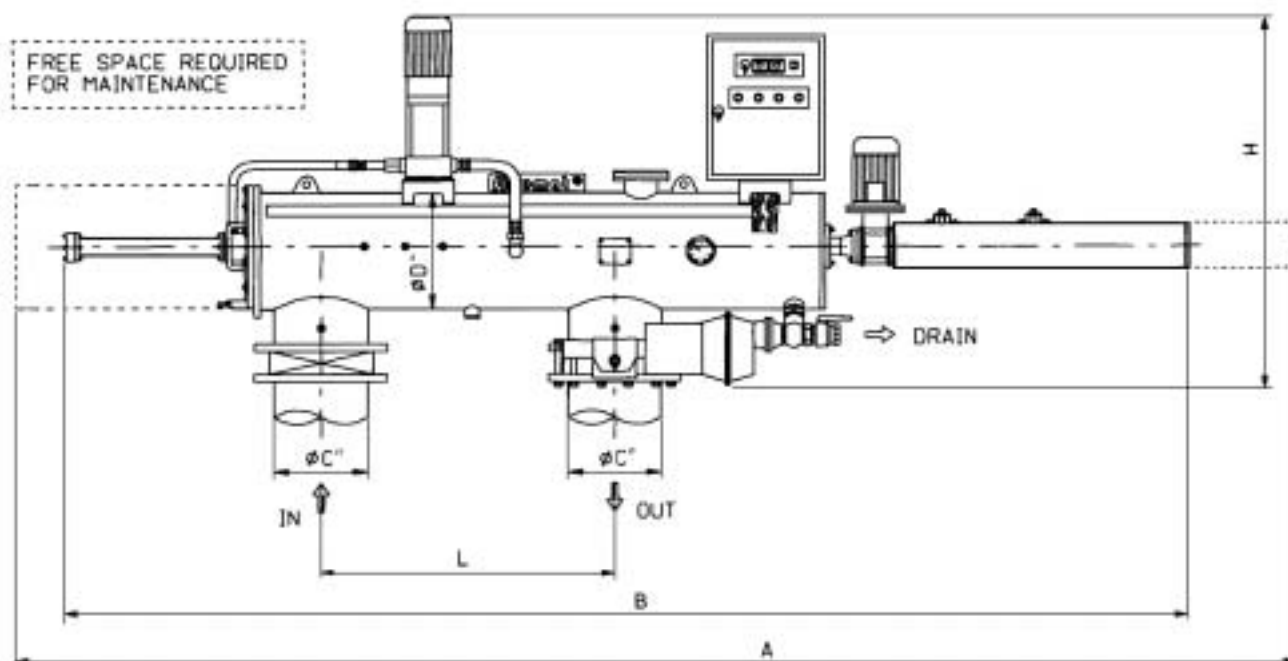
The continuous flow of water forces a steady backflush stream through the fine screen (6) and into the environment via the backflush nozzles (5), collector pipe (4) and drain chamber (8). The booster pump (10) delivers filtered water to the hollow shaft of the collector pipe and to the injection nozzles (11), which

inject a jet stream onto the fine screen. The electric motor (3) causes the collector pipe and nozzles to spin, while the piston (12) pushes the collector pipe back and forth. This helical motion together with the backflush and jet streams ensure 100% cleaning of both sides of the fine screen.

Note: The backflush process also operates at time-triggered intervals in combination with inputs from ΔP and $H\Delta P$ switches.



Technical specifications *FILTOMAT*® MCFM



Filter Specifications Table

Model MCFM	Flow Rate (m ³ /h)		Screen Area (cm ²)				Height					Weight (kg)	
	Main	Drain	4-layer	Flat	Zigzag 150-40	Zigzag 31-15	L mm	A mm	B+5 mm	ø C in.	ø D in.	Empty	Full
304P	0 - 120	4 - 6	1580	950	3300	3330	450	3600	2260	4	10	215	275
304SP	0 - 120	8 - 12	4253	2680	5142	4464	660	4210	2780	4	16	240	410
304LP	0 - 120	12 - 18	8192	4785	15426	13392	1067	5720	4070	4	16	305	550
304XLP	0 - 120	20 - 40	12126	7273	22282	19344	1067	5600	3490	4	16	300	550
306P	0 - 250	8 - 12	4253	2680	5142	4464	660	4210	2780	6	16	270	440
306LP	0 - 250	12 - 18	8192	4785	15426	13392	1067	5720	4070	6	16	320	565
306XLP	0 - 250	20 - 40	12126	7273	22282	19344	1067	5600	3490	6	16	320	570
308P	0 - 375	8 - 12	4253	2680	5142	4464	660	4210	2780	8	16	290	460
308LP	0 - 375	12 - 18	8192	4785	15426	13392	1067	5720	4070	8	16	340	585
308XLP	0 - 375	20 - 40	12126	7273	22282	19344	1067	5600	3490	8	16	350	600
310LP	0 - 500	8 - 12	8192	7273	15426	13392	1015	5720	4070	10	16	350	595
310XLP	0 - 500	20 - 40	12126	4875	22282	19344	1015	5720	4070	10	16	400	720
312LP	0 - 750	8 - 12	8192	4875	15426	13392	1015	5720	4070	12	16	360	605

Specifications for all models:

Flat screens: 50, 80, 100, 120, 150, 200, 400, 800, 1500, 3000 micron.

4-layer screens: 15, 25, 30, 40, 50, 80, 100, 120, 150, 200, 400, 800, 1500, 3000 micron.

Zigzag screens: 15, 25, 30, 40, 80, 100, 120, 150 micron.

Working pressure: 0.4 to 10 bar g.

Design pressure: 10 bar gauge.

Working temperature: 65°C standard (high temperatures up to 98°C).

Inlet/outlet connection standards: ASA150, BSTD, BSTE, DIN 10, JIS, K10.

Other types are available upon request.

Note: For filtration levels of 30 micron and finer, minimum working pressure is 1.5 bar g and higher.

Typical applications



MCFM306XLP St/St filter white water
filtration chemical paper mill - Sweden



MCFM308XLP paper machine showers - USA



amiad filtration systems



AMIAD products undergo constant monitoring for quality control. The manufacturer reserves the right to incorporate changes and improvements in the product without prior notice.

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