



Features & Advantages

- 100% factory tested according to international and Minder improved standard.
- Smart air relief valve for manual and automatic air pressure release
- Designed to assemble with valve manifold
- In-fluent manifold distribution to prevent clogging
- Materials used are durable and suitable for all-weather performance
- 10-15 years life-time
- Available in standard 2.5bar and advance 4.0bar operating pressure model

Warranty

Fittings	1 year
Filter Tank	5 years

Minder F Series vertical Commercial filters are designed with top quality in mind for various high applications. F Series filters size range from 1200mm to 3000mm in diameter with optional accessories.

Operating Limits

Model	2.5bar	4.0bar
Maximum water temperature	40°C	40°C
Operating Pressure	2.5bar	4.0bar
Maximum Pressure	4.0bar	6.0Bar

Optional Components

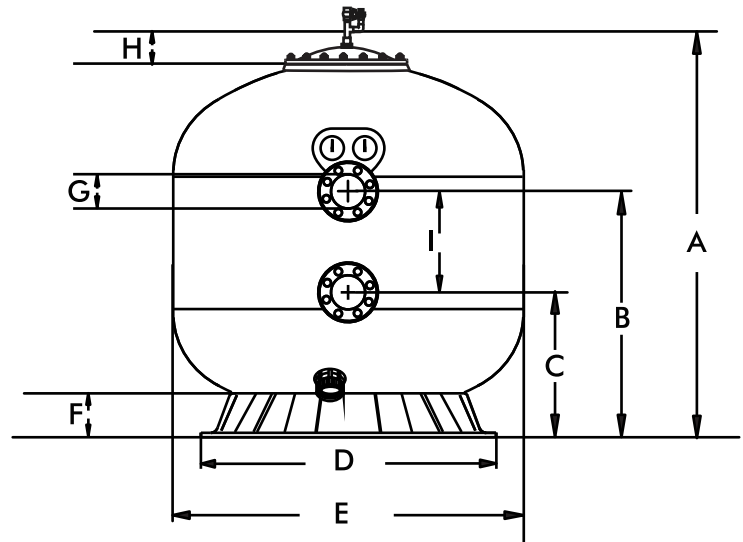
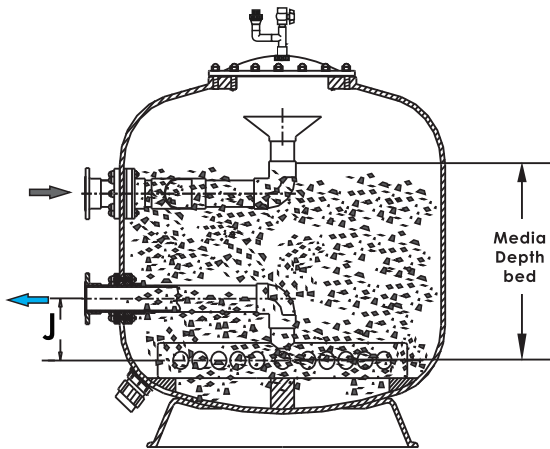
- Nozzle collection system
- Additional bed depth
- Internal sight glass
- Inline sight glass
- side Manhole
- Valve manifold (valve battery)
- Vinyl-ester internal coating

Technical Specification

Model	Code		Tank Ø	Flange Connection	Filtration Area	Designed Velocity	Maximum Flow Rate		Backwash Flow at 40m ³ /h/m ²		Media Depth Bed	Silica Sand (kg)		Sand Required (kg)
	2.5bar	4.0bar					mm	mm	m ²	m ³ /h/m ²		m ³ /h	lpm	
F1200	70130	71097	1200	90	1.13	50	52	860	45	753	1000	1200	300	1375
F1400	70131	71098	1400	110	1.54		69	1,150	62	1,027	1000	1900	450	1650
F1600	70132	71099	1600	110	2		90	1,500	80	1,333	1000	2600	675	2150
F1800	70133	73001	1800	160	2.7		120	2,000	108	1,800	1100	3600	750	2800
F2000	70134	73002	2000	160	3.14		141	2,350	126	2,093	1200	5100	1050	3800
F2350	70135	73003	2350	200	4.3		206	3,440	172	2,867	1200	7600	1800	5275
F2500	70137	73004	2500	200	4.9		235	3,920	196	3,267	1200	9200	2200	5950
F3000	70138	73005	3000	250	7.07		353	5,883	283	4,713	2200	12000	3300	8600

*Flange connection standard: DIN (Other standard is available upon request)

*Silica sand data is only for reference as different sand size will weigh differently



Dimensions

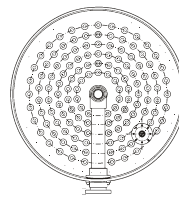
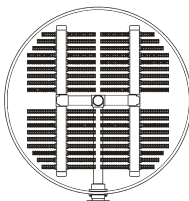
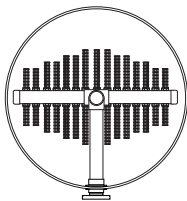
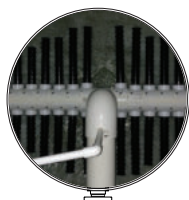
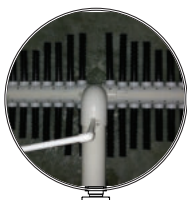
Model	Code	A	B	C	D	E	F	G	H	I	J
		mm									
F1200	70130	1450	900	530	920	1200	170	80	100	360	230
F1400	70131	1520	1000	530	1210	1400	180	100	100	470	300
F1600	70132	1800	1100	610	1210	1600	180	100	100	470	300
F1800	70133	1900	1200	640	1440	1800	230	150	100	560	350
F2000	70134	2150	1340	780	1440	2000	230	150	100	560	350
F2350	70135	2350	1450	890	1950	2350	280	200	100	560	500
F2500	70137	2650	1610	1050	1950	2500	280	200	100	560	500
F3000	70138	3040	1880	1330	1950	3000	280	250	100	560	700

Collection Systems

Standard Lateral System
F1200 / F1400 / F1600

Standard Lateral System
F1800 / F2000 / F2300 /
F2500 / F3000

Optional Nozzle
collection system



Optional Nozzle Collection System is made available to all F series Filters.

Nozzle collection system provides wider and much even collection of water flow. Also, the media system can be backwashed by pairing air and water which reduce the amount of wastewater by 50%.