

HIGH FLOW FILTRATION

Industrial range (from 0 to 35 m³/h)

PRINCIPLE OF OPERATION

Water systems can be filtered at several levels:

- very high rate for industrial/collective buildings,
- high rate for each home,
- low rate for each water point.

For buildings and homes, the Comap WTI range of filters provides effective water system protection against the problems of solid particles in suspension in the water, such as mineral, metal or organic particles larger than 25 µm.

The filtered water thus conserves its minerals and dissolved trace elements which constituted its original value.

The water remains totally drinkable in terms of solids in suspension, but filtering is only the first phase of a more complete drinking water treatment.

FIELDS OF APPLICATION

- Industrial and residential building filters can be installed on all water systems that need to be protected against particles in suspension.
- The filters can be installed on the incoming supply to the system or directly on the pipe carrying the water to be treated.



Manual cleaning filter
inox



Automatic self-cleaning filter
inox



Polypropylene
mesh filter

Our industrial and residential building filtering systems range

Our filter range comprises **3 types of filter**:

- **Manual cleaning filters:** these 150 µm filters are quick to clean, with no need to remove the filter mesh. The filter cartridge is backwashed and brushed manually to remove pollution accumulated during the filtering process.
- **Automatic self-cleaning filters:** The principle is the same as for manual cleaning, but the cleaning is motor-powered and carried out either at a selected time interval (between 2 and 48 hours, depending on the model), or by measuring the pressure drop across the filter (cleaning activated for a drop of 0.5 bar).
- **Polypropylene filter meshes are used.** These filter to 25 µm and the meshes should be changed at regular intervals (between 3 and 6 months, depending on use).

Industrial range (from 0 to 35 m³/h)

TECHNICAL CHARACTERISTICS

- Filtering 25 to 150 µm, depending on technology.
- Very high rate filters (from 5 to 35 m³/h).
- Recommended service pressure: 4 bars.
- Max. pressure: 10 bars.
- Water temperature range: 5 to 40 °C.
- Ambient temperature range: 5 to 40 °C.
- Pressure drop: max. 0,2 bar.

SIZING THE FILTER SYSTEM

CWTI specialists will size your equipment to ensure safe, effective and reliable operation.

The following information is required to enable a filter to be properly sized:

- nature and origin of water treated.
- filtering rate in m³/hour,
- service pressure in bars,
- nature and size of pollution filtered.

STANDARD INSTALLATION

Ensure that the inlet and outlet are properly positioned to allow optimum water flow and the trapping of the particles in the water.

Provide a water outlet to the drain system. Install an isolation valve on the outlet.

Filters with the automatic cleaning function must be connected to the mains electricity supply.

MAINTENANCE

- **Manual cleaning filters:** clean filters regularly to remove the particles that have accumulated on the filter mesh. Check the filter cartridge annually.
- **Automatic self-cleaning filters:** the filter cartridge should be checked annually. Cleaning is automatic (8 to 10 litres of water consumed per cleaning cycle).
- **PP mesh filters:** the filter meshes should be changed when saturated. Replacement intervals will depend on utilisation and water characteristics. It is recommended that the mesh be changed every 3 months for drinking water, and the interval should not exceed 6 months in other cases.

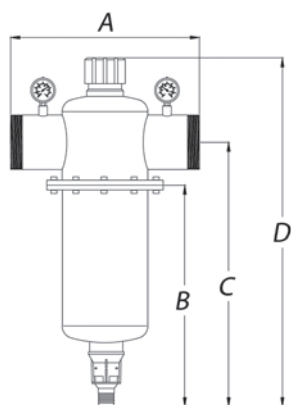
GUARANTEE

1 year parts and labour - excluding consumable items and transport.

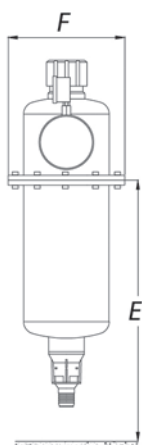
Spare Parts

Filter cartridges: see table to identify the cartridge corresponding to your filter.

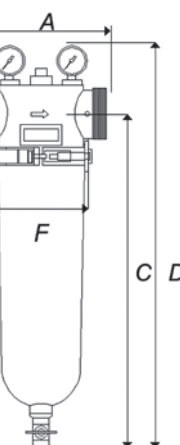
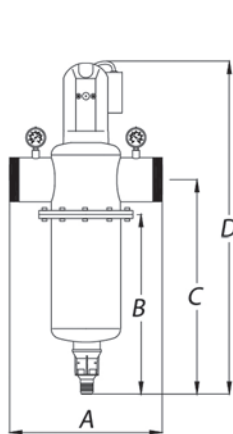
Other filtering rates to order (subject to feasibility).



Manual cleaning filter



Automatic self-cleaning filter



Mesh filter

Part number	Filter type	E/S	Maximum flow (m ³ /h)	Limit filtering	Reference cartridge	Engine power	Pressure gauge inlet / Outlet	Dimensional hydraulic part (mm) (cf plan)					
								A	B	C	D	E	F
522528	Manual cleaning filter	1" 1/4 M	5	90 µ	522529	-	no	185	-	270	355	400	-
522529		1" 1/2 M	6		contact us	-	no	195	-	335	420	400	-
Q111008001		2" M	12		contact us	-	no	160	-	310	380	400	-
Q111009001		2" 1/2 M or flanged	25	150 µ	RI660114	-	yes	310	360	430	570	650	190
Q111010001		3" M or flanged	35		RI660114	-	yes	310	360	430	570	650	190
Q111011001	Automatic self-cleaning filter	1" 1/2 M or flanged	14	150 µ	Q113008001	60 W	yes	310	310	365	640	450	220
Q111012001		2" M or flanged	20		Q113008001	60 W	yes	310	310	365	640	450	220
Q111013001		2" 1/2 M or flanged	25		RI660114	60 W	yes	310	360	430	700	650	220
RI620100		3" M or flanged	35		RI660114	60 W	yes	310	360	430	700	650	220
517607	Mesh filter	1" 1/4 M	6,5	25 µ (others on request)	517685 (par 5)	-	no	270	-	310	380	-	123
517630		2" M	18		517695 (par 5)	-	yes	363	-	630	770	-	188
517645		2" 1/2 flanged	25		517695 (par 5)	-	yes	304	-	630	770	-	188
517660		3" flanged	32		517695 (par 5)	-	yes	313	-	630	770	-	188