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## Cross-Flow Filtration Systems



**ITALMEC FTS Cross-flow Filters** are of the highest quality construction and are equipped with special tubular symmetrical capillary membranes made from high quality Polypropylene.

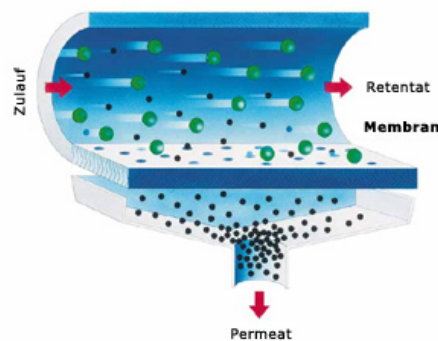
These membranes are ideally suitable for filtering wines, vinegar, juices and general liquids in the Food Industry.

After accurate comparative tests between ceramic, spiral, polysulphone and polypropylene, **ITALMEC** has selected the polypropylene symmetrical capillary membranes to ensure to top quality, quantity and duration.



## THE SYMMETRICAL CAPILLARY MEMBRANE

All **ITALMEC** cross-flow filters are fitted with **Polypropylene symmetrical capillary membranes**. The structure of these capillary membranes means that the filtrate passes from the internal of the capillary to the outside.



Due to the sophisticated design, the membrane is extremely sensitive to back-flushing, therefore the membrane keeps the filtration yield constant with high performance during the filtration cycle.

The structure allows the membrane to be washed simply with water at 40°C. When the filter is not in operation for long periods of time, the membranes can simply be cleaned and sanitised with the use of a caustic soda at 5%.

This removes the need for extreme requirements such as steam or chemical products containing chlorine.

### Advantages of the Polypropylene membranes:

1. **High Quality**
2. **Excellent productivity and output**
3. **Long life and durability**
4. **Low membrane cost compared to other some types or designs such as ceramic.**
5. **Sophisticated membrane design and more efficient continuous filtering process.**




All **ITALMEC Cross-Flow Filters** are designed and manufactured by the **Spadoni Group** who is currently one of the leaders in quality filtration equipment manufacture in the food and beverage industry.

Models are available in

<b>MANUAL (CF/ME):</b>	<b>10 – 30mtsq,</b>
<b>SEMI-AUTOMATIC (CF/SA):</b>	<b>20 – 120mtsq</b>
<b>AUTOMATIC (CF):</b>	<b>20 – 360mtsq</b>

MODELS & FILTERING SURFACE	MODULES	INSTALLED POWER	LENGTH	WIDTH	HEIGHT
m <sup>2</sup>	n <sup>o</sup>	kW	mm	mm	mm
<b>10</b>	1	3	2500	800	1600
<b>20</b>	2	4	2500	1100	1800
<b>30</b>	3	6	2500	1100	2400
<b>40</b>	4	10	2500	1100	2500
<b>60</b>	6	12	2800	1600	2200
<b>80</b>	8	17	2800	1600	2500
<b>120</b>	12	22	2800	2400	2500
<b>160</b>	16	28	2800	3000	2500
<b>240</b>	24	T.B.A.	T.B.A.	T.B.A.	T.B.A.
<b>360</b>	36	T.B.A.	T.B.A.	T.B.A.	T.B.A.

<b>WORKING PHASES OF  CROSS FLOWS</b>			
Models:	<b>CF/ME MANUAL</b>	<b>CF/SA SEMI-AUTO</b>	<b>CF AUTOMATIC</b>
Filling in Filtration	Manual	Manual	Automatic
Filtration	Automatic	Automatic	Automatic
Back Wash (Impulse)	Automatic	Automatic	Automatic
Intermediate Wash	Not Available	Not Available	Automatic
Emptying Clean Piping	Manual for gravity	Manual using pump	Automatic
Emptying Dirty Piping	Manual for gravity	Manual using pump	Automatic
Filling in Washing	Manual	Manual	Automatic
Washing in Parallel Flow	Manual	Automatic	Automatic
Washing in Counter Flow	Manual	Automatic	Automatic



## OPTIONS:

<b>Model: CF</b>	<b>AUTOMATIC CROSS-FLOW FILTERS</b>
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- CIP system (including 2 tanks)
- Cleaning Dosing system (without tanks)
- Kit for creation/mixing of Hot Water
- Kit for Bubble Test
- Filtration system for Residual Liquids
- Sparkling Wine version
- S/Steel 400lt Buffer Tank with pump, electric board, level control devices and S/Steel Frame (for 20mtsq model only).
- Self-priming pump on Buffer Tank
- Non Standard Voltage

<b>Model: CF/SA</b>	<b>SEMI-AUTOMATIC CROSS-FLOW FILTERS</b>
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- S/Steel Buffer Tank (400lts) with pump, electric board, level control devices and S/Steel Frame.
- Self priming pump (instead) for above Buffer tank
- Filtration system for Residual Liquids (for FTS/SA 60 +)
- Sparkling Wine version with Pressurised Buffer Tank
- Single Phase or other Non Standard Voltage

<b>Model: CF/ME</b>	<b>MANUAL CROSS-FLOW FILTERS</b>
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- Self priming pump (instead) for above Buffer tank
- Single Phase or other Non Standard Voltage