

SERIES 5000 - FILTERS 1"

High flow rate filters, equipped with the 1" single disk valve and the new Commercial Universal Controller (CUC)

All systems are available in Single, Duplex, Triplex, and Quadplex operation.

MODELS 5121, 5171

These filters are especially designed for use in communities, blocks of flats and offices, as well as in industry.

Activated Carbon Filters : Efficiently remove chlorine, taste and odour and other organic contaminants.

Multi-Media Filters : Provide an efficient means to remove sediment and particulate matter from a water supply.

Greensand Filters : Provide a depth filtration process, similar to the multi-media filter, also removing iron, manganese and hydrogen sulphide.

The new 1" valve is equipped with a single disk and the number of moving parts is reduced to a minimum. It is especially designed for high flow rates with low pressure drop.

All the filters of the 1" 5000 series are now equipped with a new universal control module. It offers more flexibility when it comes to setting up a multiple-unit water filtering system. Indeed, this 'CUC' control module can be set to control from one up to four units of the same model.

With a multiple-unit system, the following configurations are possible :

Parallel Immediate :

All the units provide output water at the same time. When any unit has exhausted its capacity, it immediately goes off-line, recharges and goes back on-line.

Parallel Delayed :

All the units provide output water at the same time. When any unit has exhausted its capacity, it will stay on-line until the scheduled recharge time.

Alternating Immediate :

Typically one unit is queued up on standby until another unit in service exhausts its capacity. The standby unit in the queue is placed in service and the exhausted unit is immediately recharged. When the recharge process is complete, the fresh unit is placed in the back of the standby queue.

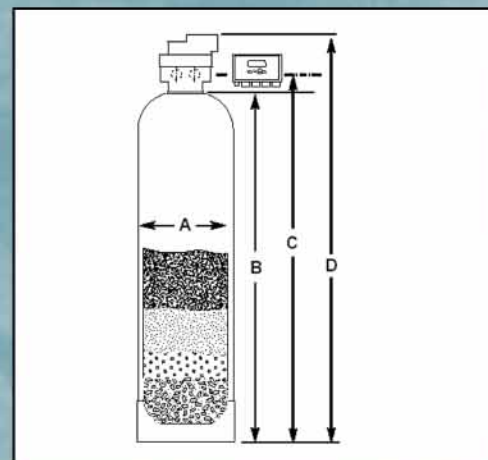
Peak Flow :

One or more units can be queued up on standby. Units are brought on-line whenever the water flow reaches a specific programmed trip point. If the water flow decreases, units are put back on standby.



Find out about all the advantages of the 1" Filters of the 5000 Series in the technical manual.

Models	A Ø Media Tank mm	B Media Tank Height mm	C Inlet-Outlet Height mm	D Overall Height mm	Ø Inlet-Outlet Connections in.	Inlet-Outlet Center Lines mm
5121	312,4	1397	1448	1670	5/4"	96,5
5171	447	1511	1562	1784	5/4"	96,5



SPECIFICATIONS		FILTERS			
MODELS		ACTIVATED CARBON		MULTI-MEDIA	GREENSAND
		5121	5171	5121	5121
Media Tank Size (in.)		12" x 54"	17" x 58"	12" x 54"	12" x 54"
Sediment Removal		based on water analysis		based on water analysis	based on water analysis
Service Flow Rate (l/min)		15 – 30	30 – 60	15 – 30	15 – 30
Flow Rate (l/min) @ Pressure Loss (ΔP bar) ①	7,5	0,07 ΔP	0,04 ΔP	0,07 ΔP	0,07 ΔP
	15,1	0,16 ΔP	0,08 ΔP	0,16 ΔP	0,16 ΔP
	22,7	0,27 ΔP	0,15 ΔP	0,27 ΔP	0,27 ΔP
	30,3	0,39 ΔP	0,23 ΔP	0,39 ΔP	0,39 ΔP
	37,8	0,55 ΔP	0,32 ΔP	0,55 ΔP	0,55 ΔP
	45,4	-	0,40 ΔP	-	-
53	-	0,50 ΔP	-	-	
60,5	-	0,67 ΔP	-	-	
68,1	-	0,95 ΔP	-	-	
Overall Media Quantity (l)		57	113	57	57
Media Quantity (kg)	Anthracite	-	-	29,5	29,7
	Sand	-	-	23,6	-
	Garnet	-	-	15	15
	Activated Carbon	26,3	52,6	-	-
	Greensand Gravel	- 7,7	- 15,4	- 7,7	7,7 7,7
Backwash/Fast Rinse Flow to Drain (l/min)		18,9	18,9	45,42	45,42
\emptyset Inlet-Outlet Connections (in.)		5/4"	5/4"	5/4"	5/4"
Operating Pressure (bar)		2,07 – 8,6	2,07 – 8,6	2,07 – 8,6	2,07 – 8,6
Operating Temperature ($^{\circ}C$)		2 - 37	2 - 37	2 - 37	2 - 37
Electrical Rating		24 V – 50 Hz		24 V – 50 Hz	24 V – 50 Hz

All systems are available in Single, Duplex, Triplex, and Quadplex operation.

SERVICE FLOW RATE *										
Models		Flow Rate (m ³ /h) @ Pressure Loss (ΔP bar) ①								
	m ³ /h ->	0,5	0,9	1,4	1,8	2,3	2,7	3,1	3,6	4,0
121		0,07 ΔP	0,15 ΔP	0,27 ΔP	0,39 ΔP	0,54 ΔP	-	-	-	-
171		0,04 ΔP	0,07 ΔP	0,15 ΔP	0,23 ΔP	0,32 ΔP	0,41 ΔP	0,51 ΔP	0,67 ΔP	0,94 ΔP

* The data was obtained from tests run by the University of Minnesota St. Antony Falls Engineering Lab and is based on a non-fouled filter.

① Pressure loss (bar) @	
	Continuous, intermittent or peak flow rates
	Flow rates not recommended

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