

# Culligan®

AUTOMATIC FILTERS  
for professional  
and household use



## When to choose a Culligan professional filter

Municipal waterworks usually supply water of drinking quality and its use for any purpose is, therefore, safe.

However, municipal water is injected with disinfectants giving water a disagreeable taste and odour. In old towns this drawback turns in intolerable because the waterworks are obliged to use disinfectants in very large quantities as a safeguard against the breaking of pipe systems worn out by old age and against the sudden release of dirt accumulated over the years.

In the tap water, other unpleasant particles may be found, owing to occasional infiltrations, or Iron, Manganese, Chloride-containing solvents.

The Culligan filters remove any impurity from water and, according to the model choice, deliver water free from bacteria, Iron and Manganese.

They can also neutralize the attack of acid water and remove any unpleasant odour and taste and hold the synthetic detergents, pesticides and Chloride-containing solvents.

CE *Designed and manufactured according to CE Directives in force*

QUALITY SYSTEM CERTIFIED ACCORDING TO UNI EN ISO 9001 NORM



# Professional filters Culligan

## AUTOMATIC DEVICES

Hi-Flo 1, Hi-Flo 2, Super S and Cul-brook filters are fully automatic. An electronic timer (or electro-mechanical for Hi-Flo 2 models) controls a hydraulic valve, which starts the service, backwash and conditioning rinse steps. The timers set the necessary duration of each step, and the automatic flow regulators control the flow rates, for the good performances of filters. The backwash can be started automatically by the timer, or manually, without interfering with pre-setting.

## TANK PROTECTION

The Hi-Flo 1 filter tanks are internally protected by a controlled thickness of epoxy paint, and externally coated with a neutral synthetic enamel.

The Hi-Flo 2 filter tanks feature the Tripl-Hull™ protection, with body in steel internally protected by a liner of plastic material, and externally by a jacket of plastic material.

The Super S and Cul-brook filter tanks feature the Quadra-Hull™ protection, with body in fiberglass internally protected by a plastic liner, an additional layer of carbon material and an external plastic jacket.



Detail of pilot valve of Hi-Flo 2 Filters.

## CULLIGAN FILTERS OPERATION

The wide range of available filtering minerals makes it possible to choose the most suitable filter for each application.

### • UF Line (multi-media filter)

For turbid water, containing traces of Iron and Manganese. The filtering mineral consists in a layer of anthracite and layer of silica sand.

### • UR Line (activated carbon filter)

For removal of undesirable tastes, odours and colours. It favours the removal of organic substances and micro-pollutants and the adsorption of residual Chlorine. The filtering minerals consists in a granular form of activated carbon with high degree of porosity.

### • UU Line (remineralizing-neutralizing filter)

For neutralization of acidity in water, in order to prevent piping and metal parts from corrosion. For remineralization of drinking water obtained by distillation of sea water. The filtering mineral consists in a mixture of granular form of Calcium Carbonate and Magnesium Oxide, which dissolves in proportion to the acidity in water. It therefore necessitates the periodic addition of the mineral, easily effected in a matter of minutes.

### • UFP Line (catalytic filters)

For selective Iron and Manganese removal. The filtering bed has a catalytic effect, which is reactivated by means of an injection of oxidizing chemical.

### • SUPER S Filter (catalytic filters)

For selective Iron removal, by air oxidation and filtration on an exclusive media. Effective also against Hydrogen Sulphide, which causes the typical "rotten egg smell". Super S is equipped with a built-in air compressor and does not require any chemical, except a small amount of bleach for the regeneration. Suitable for the removal of high Iron contents (up to 30 mg/l).

MODELS	FLOW RATE		PRESSURE LOSS max bar	FITTINGS in-out dia. ins.	DIMENSIONS width x depth x height mm	SHIPPING WEIGHT kg
	Service max m <sup>3</sup> /h	Back- wash m <sup>3</sup> /h				
<b>HI-FLO 1</b>						
UF 20	4.5	6.8	0.8	1	585 x 500 x 1670	357
UR 20	4.5	3.4	0.3	1	585 x 500 x 1670	275
UU 20	2.5	4.5	0.7	1	585 x 500 x 1670	360
UFP 20	3.5	6.8	0.5	1	585 x 500 x 1670	360
<b>HI-FLO 2</b>						
UF 12	2.7	2.2	0.5	1½	300 x 370 x 1350	129
UF 16	4.7	4.5	0.5	1½	400 x 430 x 1665	228
UR 12	1.8	1.8	0.5	1½	300 x 370 x 1350	108
UR 16	3.1	3.1	0.5	1½	400 x 430 x 1665	178
UU 16	1.4	4.5	0.5	1½	400 x 430 x 1665	245
UFP 12	1.4	2.2	0.5	1½	300 x 370 x 1350	120
UFP 16	2.5	4.5	0.5	1½	400 x 430 x 1665	205
<b>SUPER S</b>						
US 12	2.2	1.1	0.7	1	330 x 370 x 1400	84
<b>CUL-BROOK</b>						
UF 9	1.5	1.2	1.1	¾	250 x 350 x 1420	60
UR 9	0.8	0.8	0.5	¾	250 x 350 x 1420	42
UR 12	1.4	1.2	0.7	¾	320 x 350 x 1420	65
UU 9	0.8	1.2	0.8	¾	250 x 350 x 1420	65
UU 12	1.4	1.5	0.8	¾	320 x 350 x 1420	98
UFP 9	0.8	0.8	0.8	¾	250 x 350 x 1420	62
UFP 12	1.4	1.2	1.1	¾	320 x 350 x 1420	102

Culligan reserves the right to change any technical or design specifications for the models shown in this brochure.

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