

Micro-Klean™ MKCA Series

Activated Carbon Filter Cartridges

The 3M Purification Micro-Klean activated carbon cartridges MKCA remove chlorine, colour, odours and other organics from water and aqueous liquids. The easy to change disposable cartridge contains about 400 ml of selected hard granular activated carbon for a bed height of 14 cm. This design allows an adsorption of organics and dissolved gas and an efficient dechlorination even with high chlorine content (4 ppm and more). Micro-Klean MKCA is designed for drinking water or potable liquids.

Features and benefits

Heat sealed “no mess” carbon cartridges

- Activated carbon prefilter, postfilter and inner core are all contained in a heat sealed polyethylene case. This unitised cartridge construction eliminates the mess associated with handling carbon.

Pre and postfilter

- The Micro-Klean RT prefilter cartridge removes dirt, rust and other sediments to avoid fouling by suspended matter and to increase life and adsorption efficiency. The Micro-Klean RT postfilter prevents carbon release.

Granular carbon

- The activated carbon used in the 3M Purification cartridges has been carefully selected in order to have the best compromise in between the hardness number, the adsorption capacity, the surface area and the ash content.

Cartridge canister

- The canister design allows optimal use of all the volume of carbon and results in longer contact time and maximum adsorption capacity.

Filter housings

- The 3M Purification activated carbon cartridges can be used in either single cartridge filter housing or stacked in multiple cartridge housings. End gaskets provide the necessary seal in either arrangement.



Applications

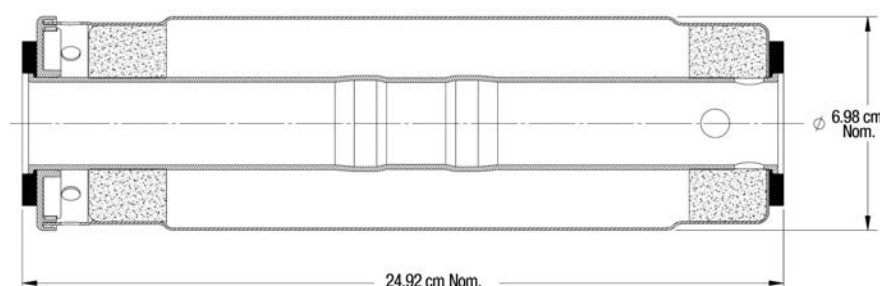
Water treatment

- Dechlorination
- Pesticides and organics removal
- Odour and colour removal

Operating Parameters

Maximum temperature	38 °C
Maximum differential pressure	1 bar
Recommended flow-rate	2.8 l per min/cartridge (0.75 gpm)
Capacity	17 034 litres (4500 gallons)
Maximum recommended flow-rate	8 l per min/cartridge

Figure 1: Cartridge drawing



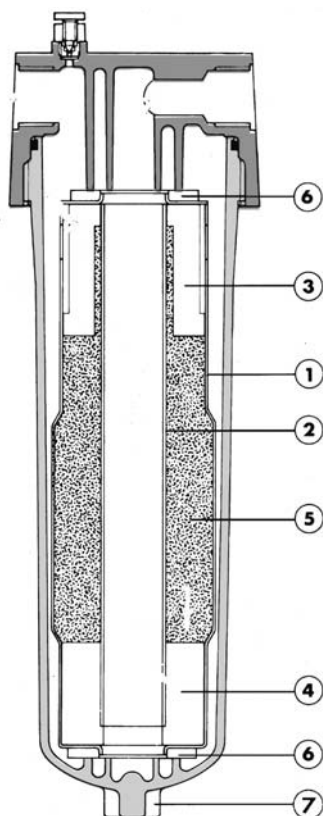


Figure 2: Drawing of Cartridge in Housing

Cartridge Operating Instructions

The 3M Purification activated carbon cartridge is normally applied at a maximum flow-rate of 8 l per min/cartridge. Since prolonged contact time can increase the adsorption efficiency it may be desirable to maintain a flow-rate lower than 2.5 l per min/cartridge on some applications.

When the carbon is spent, the taste and odours return in the effluent. This indicates a required change of cartridges.

A decrease in flow on the cartridge or a fall in the outlet pressure indicates the prefilter cartridges are being prematurely clogged. A larger Micro-Klean prefilter should be installed ahead of the carbon cartridge filter.

Cartridge Construction

Legend Figure 2 on the left:

1. Cage in polyethylene
2. Inner core in polyethylene
3. Prefilter and postfilter Micro-Klean RT (5 µm)
4. Prefilter and postfilter Micro-Klean RT (5 µm)
5. Granular activated carbon (specification supplied on request)
6. Gasket (Nitrile)
7. 3M Purification housing: plastic housing (1N1) or stainless steel (CT 101)

Ordering Guide

Cartridge reference: 70020018688

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