

Two Stage Ceramic Filters for Removal of

(i) Bacteria, Cysts and Sediment (ii) Chlorine, Taste and Odour (iii) **Lead and Metals**

SENTRY CTO PLUS Filters for Mains Drinking Water

Description:

A two stage filter, made in England and incorporating:

- Stage 1. Silver impregnated ceramic filter made using KLT Filtration proprietary ceramic manufacturing technique.
- Outstanding bacterial and cyst rejection
 - 100% Sediment and particulate removal to 0.5µ
 - Easily cleaned with brush or scouring pad
- Stage 2. High grade activated carbon block optimised for removal of Chlorine, Taste and Odour with additional zeolitic Lead and VOC (Volatile Organic Compound) reduction capacity

Nominal Filtration Rating: 0.5µ absolute (Ceramic)

Contaminant Removal:

Stage 1 - Ceramic	Removal	Basis
Pathogenic Bacteria, • Cholera, Typhoid, Salmonella, E. Coli, Faecal Coliform, Shigella	In excess of 99.9999% ⁽¹⁾ (>6 LRV)	Alcontrol Laboratories
Cysts • Cryptosporidium, Giardia	In excess of 99.9999% ⁽¹⁾ (>6 LRV)	Alcontrol Laboratories
Sediment	100% absolute to 0.5µ	IBR Laboratories
Stage 2 – Activated Carbon Block with Silicate ⁽²⁾		
Chlorine, Taste and Odour (CTO)	To NSF/ANSI 42	Block Manufacturer
Lead ⁽³⁾	To NSF/ANSI 42	Block Manufacturer

- Notes: 1. **Testing shows zero detectable E.Coli breakthrough over 500 litres.**
Percentage removal / LRV calculated on lower detectable limit for E Coli.
2. The stage 2 activated carbon block with silicate also has capacity to remove VOC to NSF/ANSI 42
3. Combined Lead and Mercury removal

Configurations

Standard configurations are listed below; please enquire about custom made configurations:

Dome ended candles:		Standard Drop in Cartridges:	
Outside Dia:	Typically 2.0" or 2.75" (50 or 70mm)	Outside Dia:	Typically 2.75" (70mm)
Length:	Typically 9.0" (230mm)	Length:	Typically 9.75" (250mm)
End Cap(s):	¼" BSP threaded (Doulton equiv.) M15 threaded (Franke FRX02 equiv.)	End Cap(s):	Suitable for standard drop in housing
Housing Seal:	O Ring – EPDM	Housing Seal:	Flat Washer – EPDM

Capacity:

Ceramic: The ceramic stage of the filter continues to remove bacteria and cysts indefinitely. Replace if ceramic is cracked or damaged. Typical suggested replacement after 2 years.

Block: CTO, Lead (& Mercury) and VOC capacities depend filter size. Nominal capacities are

	Dome Ended Candle 2.0" (50mm) OD, 9.0" (230mm) Long	Standard Drop In OBE 2.75" (70mm) OD, 9.75" (250mm) Long	Basis
Chlorine	1,220 US Gallon (4,600 L)	2,500 US Gallon (9,500 L)	Block Manufacturer
Lead ^(Note 1)	270 US Gallon (1,000 L)	550 US Gallon (2,100 L)	Block Manufacturer

- Notes: 1. Combined Lead and Mercury removal
2. VOC Capacity is 220 US Gallon (830L) for 2.0" diameter candle and 450 US Gallon (1,700L) for 2.75" diameter OBE

Flowrates:

Flowrates depend on inlet water pressure and quality. Nominal flows based on 3 bar inlet pressure are:

	Dome Ended Candle 2.0" (50mm) OD, 9.0" (230mm) Long	Standard Drop In OBE 2.75" (70mm) OD, 9.75" (250mm) Long	Basis
Flow rate	1 US Gallon / Min (3.8 LPM)	1.2 US Gallon / Min (4.5 LPM)	In house test