



**Take charge**  
of your drinking water

A GENUINE  
WATER FILTER

MADE IN  
BRITAIN





# Clean, healthy, **great-tasting water.**



Doulton® and British Berkefeld® provide customers, whatever their situation, with top quality, UK manufactured water filters that perform consistently every time and gives them clean, healthy, great-tasting water anytime, anywhere.

## Brand

Doulton® water filters have now been manufactured continuously in the UK for more than 185 years. In the 19th Century, the River Thames was London's main water supply... and sewer. Henry Doulton discovered that filtering water through a porous ceramic could stop people becoming sick from cholera and other water-borne diseases.

Fairey Industrial Ceramics Limited (FICL) is the sole manufacturer of the world famous range of Doulton® and British Berkefeld® ceramic drinking water filters. All ceramic water filter products are manufactured in FICL's factory based in North Staffordshire, UK, the traditional home of the ceramic industry in England.



## Quality

In general, the smaller the pore size of a filter and the more complicated the path the water takes through the filter medium, the more effective it is at removing particles from water. A ceramic has a small and complex pore structure, making it an ideal filter medium.

The pore structure of Doulton® and British Berkefeld® ceramic drinking water filters is accurately controlled. This expertise gives the candles the highly consistent pore structure necessary to remove a wide range of water borne contaminants over the life of the filter.

All stages of FICL's drinking water filter production process adhere to the stringent BS EN ISO 9001 quality standards. FICL holds the coveted NSF® and WRAS certificates, demonstrating that our drinking water filters have passed the highest international testing standards.

Our high quality standards are why the Doulton® and British Berkefeld® brand names are so well known and respected for use in home water filtration systems around the world. Customers can, as a result of our exacting standards, expect the same high quality from our filters every time they are used.

## Performance

Millions of ceramic filter candles are produced annually, which sell to 140 countries worldwide. This global success is because Doulton® and British Berkefeld® drinking water filters are so versatile – they will do a job on any water supply:

- Highly effective barrier to particles and pathogens** a pore structure down to 0.2 microns to offer maximum protection
- Long Life / Long term value** the filters may be cleaned, when used on turbid water, which allows re-use and gives 6-12 months life
- Natural** the ceramic is made from 100% natural earths and uses coconut shell carbon
- Minerals maintained** the filters do not remove those minerals from the water which are beneficial to health
- Enhanced anti-bacterial properties** FICL's ceramics contain trace elements of silver to inhibit microbiological growth within the ceramic element
- Multi-stage filtration in one cartridge** other filter media can be put inside the ceramic filter candle. Activated carbon can be incorporated to remove chlorine, or an ion exchange media to remove heavy metals such as lead

## Price

Bottled water is expensive to buy, produces a lot of plastic waste, and the carbon footprint of transporting those bottles of water is enormous.

- Healthy water that doesn't cost the Earth** Installing a filter system offers a much greener as well as cheaper alternative way of drinking good quality water.





# Continuing the revolution in Ceramic Filtration Technology.

## Filter Grades

Doulton® and British Berkefeld® ceramic filter elements are available in 6 grades. The grade you ultimately choose will depend on which contaminants you want to remove from the water.

At the heart of every Doulton® and British Berkefeld® water filter candle is a Sterasyl® silver impregnated ceramic microfilter.

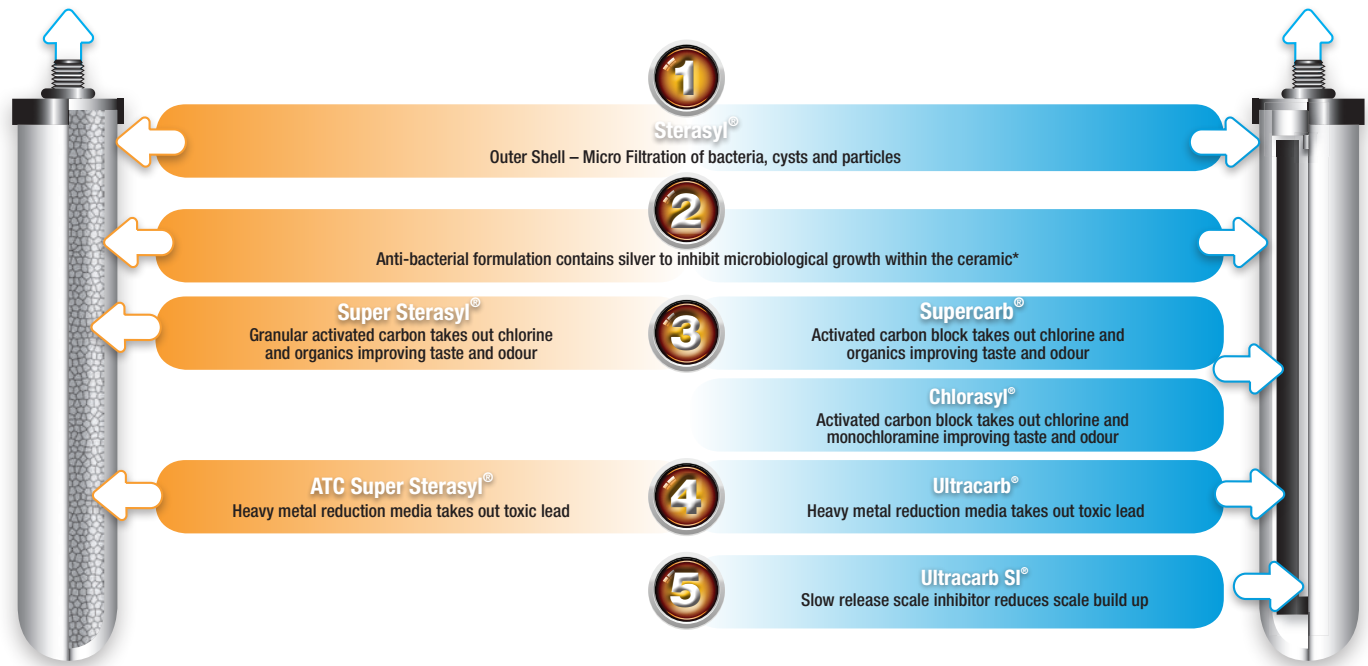
The incorporation of silver locked within the ceramic structure inhibits the growth of bacteria on the filter.

By incorporating activated carbon in the form of granular carbon or carbon block, the Sterasyl® ceramic can also be produced in Super

SterasyI®, Supercarb® and ChlorasyI® grades which combine the advantages of ceramic and carbon treatment within a single filter element.

At the top end of the product range the ATC Super SterasyI® and Ultracarb® candles have an additional ion exchange media which reduces Lead and other harmful heavy metals.

The Supercarb SI® and Ultracarb SI® candles also incorporate a slow release scale inhibitor to reduce the unwanted effects of scale build-up.



## Authenticate and Register your Ceramic Drinking Water Filter

The unique 10 digit authenticity code printed on every single ceramic filter enables you to authenticate and register your product directly with the manufacturer.

This gives you the reassurance that you have purchased a genuine Doulton® or British Berkefeld® product that has been precision made, in England, to the highest standards.

Authenticity and registration can be completed online by visiting [www.doulton.com](http://www.doulton.com)

To ensure an accurate match with the manufacturing database input both the Product Reference Code and the Unique Authenticity Code (indicated below) and follow the instructions on screen.

Unique Authenticity Code



Product Reference Code

**AUTHENTICITY  
GUARANTEE**

## Filter Performance

Verified by independent laboratories

Candle Grade 49mmø

Selection of the most appropriate grade of candle allows filter performance to be matched to the requirements of the local water conditions

		SterasyI®	Super SterasyI®	ATC Super SterasyI®	Supercarb®	ChlorasyI®	Ultracarb®
		Silver impregnated ceramic microfilter activated carbon	SterasyI® microfilter plus granular activated carbon and lead removal media	SterasyI® microfilter plus granular core	SterasyI® microfilter plus carbon block core	SterasyI® microfilter plus carbon block core	SterasyI® microfilter plus carbon block core and heavy metals removal media
Filtration Rating (% particulate filtration efficiency)	Absolute (defined as >99.99%) Nominal (defined as >99.9%)	0.9 micron 0.5 to 0.8 micron	0.9 micron 0.5 to 0.8 micron	0.9 micron 0.5 to 0.8 micron	0.9 micron 0.5 to 0.8 micron	0.9 micron 0.5 to 0.8 micron	0.9 micron 0.5 to 0.8 micron
Working Pressure (for pressure filter use)	Minimum Maximum	10 psi 125 psi	10 psi 125 psi	N/A N/A	10 psi 125 psi	10 psi 125 psi	10 psi 125 psi
Working Parameters	Working temperature range Working pH range Suitable for use in Gravity filters Recommended change frequency	5 - 30 (°C) 5.5 - 9.5 Yes 12 months	5 - 30 (°C) 5.5 - 9.5 Yes 6 months	5 - 30 (°C) 5.5 - 9.5 Yes 6 months	5 - 30 (°C) 5.5 - 9.5 N/A 6 months	5 - 30 (°C) 5.5 - 9.5 N/A 6 months	5 - 30 (°C) 5.5 - 9.5 N/A 6 months
Flow Rate	Unrestricted Flow at 3 Bar Pressure up to To achieve maximum performance	5 1.33 N/A	4.5 1.2 1.2 l/hr under gravity 0.3 g/hr under gravity	N/A N/A 1.2 l/hr under gravity 0.3 g/hr under gravity	3.7 1 1.9 0.5	3.7 1 1.9 0.5	3.3 0.9 1.9 0.5
Capacity	Before replacement to guarantee performance	10,000 2600 US gallons	2000 535 US gallons	1500 400 US gallons	3800 1000 US gallons	3800 1000 US gallons	2300 600 US gallons
Quality Approval	NSF certified version available NSF approved Turbidity reduction to NSF std. 53	YES* YES >98%	NO YES >98%	NO NO >98%	YES* YES >98%	NO NO >98%	YES* YES >98%
Pathogenic Organisms	% Bacteria Removal* % Cyst Removal	E. Coli / Cholera / Shigella / Typhoid / Klebsiella Terrigena >99.99% >99.99% >99.99%	>99.99% >99.99% >99.99%	>99.99% >99.99% >99.99%	>99.99% >99.99% >99.99%	>99.99% >99.99% >99.99%	>99.99% >99.99% >99.99%
Trace Organics Removal	Insecticides Herbicides Phenols Polyaromatic Hydrocarbons Trihalomethanes	N/A N/A N/A N/A N/A	NO DATA NO DATA NO DATA NO DATA NO DATA	NO DATA NO DATA NO DATA NO DATA NO DATA	>85% >85% >50% >95% >50%	NO DATA NO DATA NO DATA NO DATA NO DATA	>85% >85% >50% >95% >50%
Enhanced Organics Removal	Lindane Atrazine Benzene	2ppb presence 9ppb presence 15ppb presence	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	Ave 95% N/A Ave 87%	N/A N/A N/A
Inorganics Removal	Free Chlorine Removal	2ppm presence to NSF Class 1 Std 42	N/A Under Gravity >95% † Under Pressure >50% †	>95% under gravity †	>97%	>97%	>96%
Monochloramine Reduction	3ppm presence 2ppm presence	N/A N/A	N/A N/A	N/A N/A	N/A N/A	Ave 95% (600 USG) N/A	N/A N/A
Heavy Metals Removal	Lead reduction pH6.5 Lead reduction pH8.5 Mercury reduction pH6.5 Cadmium reduction pH 6.5	@ 150ppb presence to NSF Std 53 @ 150ppb presence to NSF Std 53 @ 6ppb presence @ 30ppb presence	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	98.7% 98.7% N/A N/A
Scale Inhibition	Slow release scale inhibition available with Ultracarb SI® and Supercarb SI® ceramic filter candles.						

State restrictions may limit the availability of certain products in California, Iowa and Wisconsin. For product availability in these States please refer to our website: [www.faireyceramics.com](http://www.faireyceramics.com)  
\* NSF certified replacement elements are Doulton SterasyI®, Doulton Supercarb®, Doulton Ultracarb® and Doulton BioTect Ultra® as verified by testing in HIP Inline, and EcoFast® Inline Systems.  
† Internally generated test data. ‡ Under approval process. \*Ceramics tested in HIS filter housing with a minimum of 5 log/100mls influent challenge.

\* Independently tested, see website for full technical and performance specifications and product availability.



# Filter elements Ceramic technology you can trust.

## Candle or Cartridge format?

There are two ceramic filter formats: Candle and Cartridge. The format you need will depend on the type of filter housing you are using and the flow rate you require.

### Candle

Candles have a domed end and a plastic mount on the top to fix them into the filter housing. All Doulton® and British Berkefeld® filter housings use candle format filter elements.

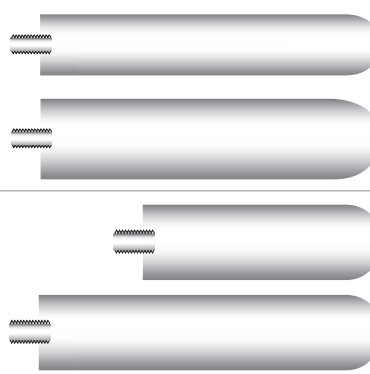
Other sizes can be manufactured to individual customer specifications.

Ceramic filter candles are available in:

#### 2 standard diameters:

**Slimline:** 2 inches/49 mm.

**Imperial:** 2¾ inches/67mm



#### 2 standard lengths:

7 inches/177mm

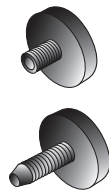
10 inches/254mm.

Candles are manufactured as standard with a ¼ inch BSP threaded mount, available in two lengths:

**Short mount:** ¾ inch/19mm.

**Long mount:** 1 ½ inch/38mm

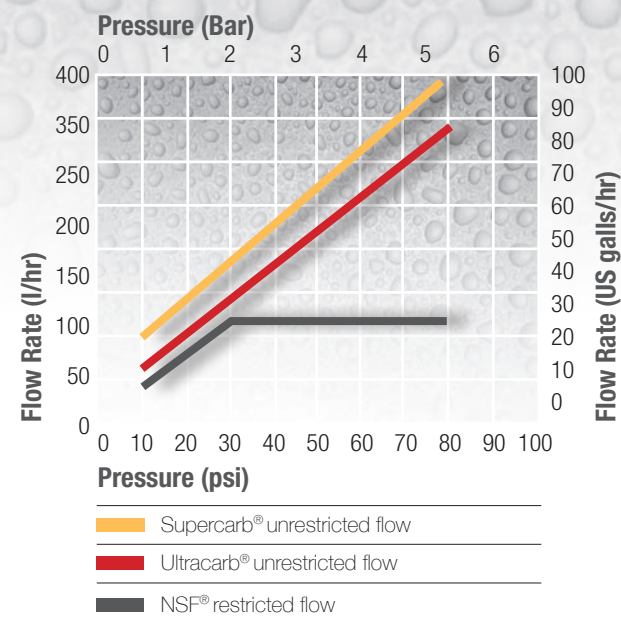
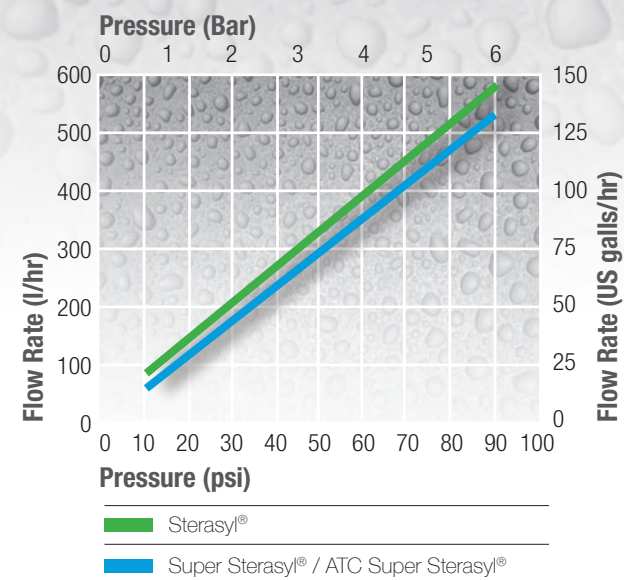
The type of mount as well as the length and diameter of the candle will be dictated by the filter housing.



## Element & Grade Availability

Grade	Candle 7" Candle	10" Candle	Cartridge Slimline	Imperial
Sterasyi®	✓	✓	✓	✓
Super Sterasyi®	✓	✓		✓
ATC Super Sterasyi®	✓			✓
Supercarb®		✓	✓	✓
Chlorasyi®		✓		
Ultracarb®		✓	✓	✓

## Typical Candle Flow Rates 49mmØ



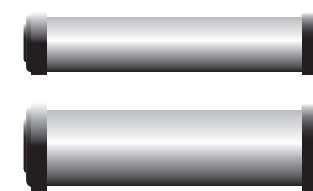
### Cartridge

Cartridges (OBEs) have a plastic mount and rubber washer at both ends. They are designed to fit industry standard 10 inch filter housings.

Cartridges are manufactured at a standard length of 9 ¾"/248mm and two standard diameters:

**Slimline:** 2 inches/49mm

**Imperial:** 2¾ inches/67mm



### Water treatment cartridges

Water treatment cartridges allow the removal of additional contaminants from your drinking water.

They are compatible with the under-counter and counter-top range of housings and can also be used in the DUO™ housing alongside your choice of ceramic filter candle.

### Sediment Reduction

Assembled using NSF approved materials this cartridge is designed for use in areas subject to high sediment. This treatment cartridge will remove sediment and particles down to 5 microns.

### Chlorine Reduction

A high capacity DCB10 carbon block providing a high flow solution for the removal of chlorine. This product reduces sediment and significantly improves the taste and odour of drinking water for up to 15,000 litres. Assembled using NSF approved materials.

### Limescale Reduction

This WRAS approved treatment cartridge contains highly effective ion exchange media which works to protect against limescale build-up, reducing the hardness in drinking water and the unpleasant chalky taste that hard water can have, for up to 3 months depending on the water quality.

### Nitrate Reduction

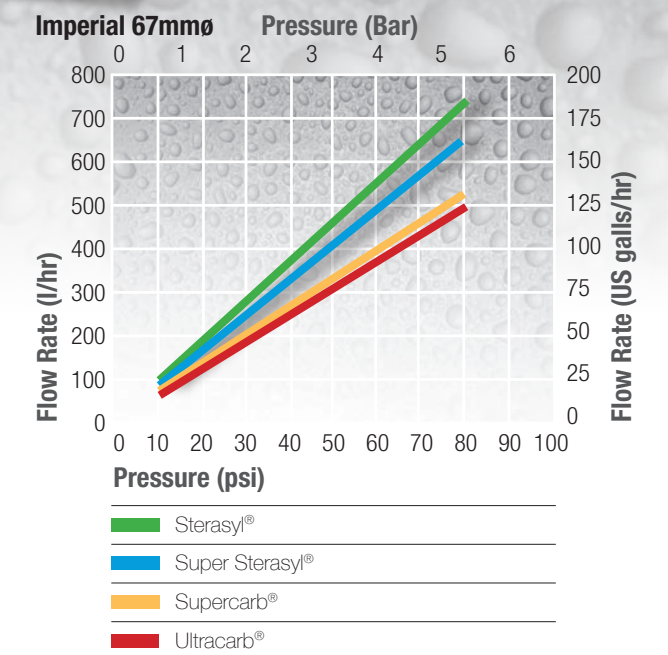
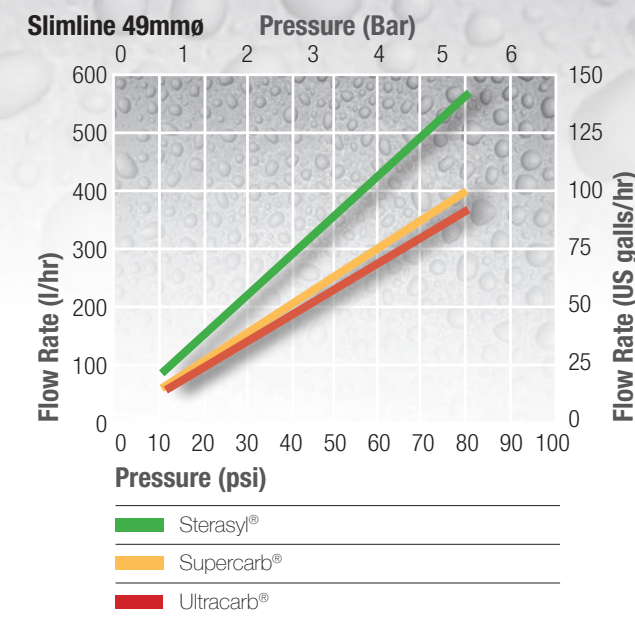
A water treatment cartridge manufactured with ion exchange resin to meet WRAS requirements. For the reduction of nitrates present in municipal drinking water supplies, which can cause sickness if ingested at high levels.

### Fluoride Reduction

The fluoride cartridge is manufactured using WRAS and NSF approved materials and reduces unwanted naturally occurring and added fluoride to safe levels in mains supplied drinking water.



## Typical Cartridge Flow Rates





# Filter housings A solution for every situation.

## Under-counter Inline filters

Designed to be fitted to the mains cold water pipe underneath the kitchen counter and are highly robust as they are under water pressure all the time.



HIP/Sterasyt® Inline  
HIP/Supercarb® Inline  
HIP/Ultracarb® Inline



Material	BPA free Food Grade Plastic
Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
*Flow Rate	300 L/hour



DUO™

Material	BPA free Food Grade Plastic
Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Number of filter elements	1 Ceramic Filter Candle 1 Pre Filter Water Treatment Cartridge
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
*Flow Rate	300 L/hour



EcoFast  
Ecofast/Ultracarb® Inline



This product is not available for sale in The United States of America.

Material	BPA free Food Grade Plastic
Connections	Either 1/4 inch or 3/8 inch push-fit inlet & outlet suitable for connection to flexible plastic pipe
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
*Flow Rate	275 L/hour



HIS

Material	Stainless Steel Body, Chromium Plated Brass Head
Connections	½ inch BSP threaded inlet & outlet
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
*Flow Rate	300 L/hour

## Grade

<div></div> Sterasyt®	<div></div> Supercarb®
<div></div> Super Sterasyt®	<div></div> Chlorasyt®
<div></div> ATC Super Sterasyt®	<div></div> Ultracarb®



HIS PUSH-FIT

Material	Stainless Steel
Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short threaded mount
Compatible candles	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
*Flow Rate	300 L/hour



RIO 2000  
High Flow

Material	Polypropylene
Connections	1 inch BSP parallel threaded inlet & outlet
Number of filter candles	6
Type of filter candle	8 inches long x 1.2 inches in diameter (200 x 32mm) threaded short mount
Compatible candles	<div><div></div></div>
*Flow Rate	1500 L/hour



HCP

Material	BPA free Food Grade Plastic
Connections	Diverter valve fits onto most common threaded kitchen mixer taps
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short thread
Compatible candles	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
*Flow Rate	300 L/hour



HCS

Material	Stainless Steel Body, Chromium Plated Brass Base
Connections	Diverter valve fits onto most common threaded kitchen mixer taps
Number of filter candles	1
Type of filter candle	10 inches long x 2 inches in diameter (254 x 49mm) short thread
Compatible candles	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
*Flow Rate	300 L/hour

Due to a policy of continuing product development Fairley Industrial Ceramics Limited reserves the right to change any information without prior notice.

\* Please refer to filter performance table for flow rates for specific candle grades









# Filter housings **Versatile and flexible.**

## Wall-mounted filters


Providing easy access, these filters are designed to be wall-mounted in close proximity to the kitchen sink.

### Grade

 Sterasyl®	 Supercarb®
 Super Sterasyl®	 Chlorasyl®
 ATC Super Sterasyl®	 Ultracarb®




HBA MK1

<b>Material</b>	Nylon Coated Aluminium
<b>Connections</b>	½ inch BSP threaded inlet & outlet
<b>Number of filter candles</b>	1
<b>Type of filter candle</b>	10 inches long x 2 inches in diameter (254 x 49mm) short thread
<b>Compatible candles</b>	
<b>*Flow Rate</b>	300 L/hour



HBA MK11


<b>Material</b>	BPA free Food Grade Plastic
<b>Connections</b>	½ inch BSP threaded inlet & outlet
<b>Number of filter candles</b>	1
<b>Type of filter candle</b>	10 inches long x 2 inches in diameter (254 x 49mm) short thread
<b>Compatible candles</b>	
<b>*Flow Rate</b>	300 L/hour

## Outdoor Recreation Water filters

For situations where there is no reliable pressurised mains water supply.



HCA

<b>Material</b>	High Density BPA free Polypropylene
<b>Connections</b>	Water is poured manually into the upper chamber
<b>Number of filter candles</b>	2 candles
<b>Type of filter candle</b>	7 inches long x 2 diameter (178 x 49mm) long threaded mount & wing nut
<b>Compatible candles</b>	
<b>*Flow Rate</b>	2 ceramic filter candles give a flow rate of up to 1.5 L/hour - dependent on water quality and fill rates




HFK

<b>Material</b>	2 BPA free Food Grade Plastic containers
<b>Connections</b>	Untreated water is poured manually into the upper chamber
<b>Number of filter candles</b>	Available with 2, 3 or 4 ceramic filter candles
<b>Type of filter candle</b>	7 inches long x 2 diameter (178 x 49mm) long thread and wing nut
<b>Compatible candles</b>	
<b>*Flow Rate</b>	1 L/hour per candle - dependent on water quality and fill rates



SS

<b>Material</b>	Stainless Steel
<b>Connections</b>	Water is poured manually into the upper chamber
<b>Number of filter candles</b>	2, 3 or 4 candles
<b>Type of filter candle</b>	7 inches long x 2 diameter (178 x 49mm) long thread and wing nut
<b>Compatible candles</b>	
<b>*Flow Rate</b>	Using more candles provide a higher flow rate, so the SS is available with 2, 3 or 4 ceramic filter candles giving a flow rate of up to 1.7, 2.5 or 3.3 L/hour - dependent on water quality and fill rates

Due to a policy of continuing product development Fairey Industrial Ceramics Limited reserves the right to change any information without prior notice.

\* Please refer to filter performance table for flow rates for specific candle grades.



### **High Efficiency Filter**

99.99% plus filtration of bacteria, cysts and particles\*\*.



### **Long-Life / Value for Money**

Cleanable filter surface for prolonged life.



### **Anti-Bacterial Action**

Anti-bacterial formulation contains silver to inhibit microbiological growth within the ceramic.



### **Retains Essential Minerals**

Keeps the minerals beneficial to health.



### **No Power Required**

Cost effective to run. Protects without power.



#### **Manufactured by:**

Doulton Water Filters, Newcastle, Staffordshire, ST5 9BT, United Kingdom.

Telephone: +44 (0) 1782 664420

Fax: +44 (0) 1782 664490

Email: [filtersales@doulton.com](mailto:filtersales@doulton.com)

Website: [www.doulton.com](http://www.doulton.com)



Certifications held by Fairey Industrial Ceramics Limited, see website for full details.

Doulton®, British Berkefeld®, EcoFast®, Sterasyl®, Supercarb®, Chlorasyl® and Ultracarb® are trademarks registered to Fairey Industrial Ceramics Limited.

\*\*Independently tested, see website for full technical and performance specifications and product availability. State restrictions may limit the availability of certain products in California, Iowa and Wisconsin.

