



Drinking Water Filters

healthy water
HEALTHY LIFE



QUALITY CERAMIC
FILTERS MADE IN
ENGLAND

- 💧 Bottled water quality on tap in your own home.
- 💧 Long-life filters. Great value for money.
- 💧 Simple to install, use and maintain.
- 💧 No power required. Low running costs.
- 💧 Eco-friendly, reusable filter cartridges.
- 💧 175 years experience. A proven brand you can trust.



Yesterday...

In 19th Century England, 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.

This was a **revolution** in water treatment.



Today...

Fast forward 175 years and the ceramic filtration technology has advanced a long way, but the principles of our ceramic filters remain the same - providing safe, healthy, great-tasting drinking water wherever and whenever you need it. From a mud hut in Uganda to an office block in Utah, Doulton® and British Berkefeld® filters are working round-the-clock to provide millions of people with water they can enjoy and trust.



Quality Standards

Manufactured in England by Fairey Industrial Ceramics Limited under ISO conditions to ensure product consistency and reliability, Doulton® and British Berkefeld® filters regularly undergo rigorous testing both in our own laboratory facilities and by independent laboratories to ensure that our customers receive first class products every time.

Independent quality control approvals such as the NSF International standard 42 and 53, and WRAS approval ensures that product performance claims are verified to the highest level. See NSF mark for specific products.



Healthy water healthy life

Experience the difference that drinking healthy water could make to you

Doulton® and British Berkefeld® filters offer you bottled water quality on tap 24 hours a day. Our unique ceramic filtration technology produces drinking water of unrivalled quality.

All of our filter grades have been microbiologically tested. Most grades also remove chlorine and improve the taste and odour of the water, while others use lead absorbent media to take out toxic lead specifically and other heavy metals. See performance table for full details.

Healthy water that doesn't cost the Earth

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

Installing a filter system in your home offers a much greener as well as cheaper alternative way of drinking good quality water. However, even most filter systems require frequent replacement of plastic cartridges / housings, which can itself generate a considerable amount of plastic waste. Our approach is different. By using long-life reusable filter housings fitted with long-life reusable filter elements made from natural materials, we are able to cut down on waste as well as giving you better value for money.

The secret is that the ceramic shell of our Doulton® and British Berkefeld® filter elements can be scrubbed clean many times, extending the life of the filter element and meaning that you do not have to replace your filter so often. Good water without the environmental or financial cost.

The right solution for you

We aim to provide a drinking water solution suitable for every situation; whether you need a filter unit fitted underneath your sink, in the back of your water cooler, sitting on your counter top, or mounted on your wall. You can even take our gravity filters to places where there is no running water at all.

Filter Housings

Filter Elements Colour Code	
	Sterasyll™
	Super Sterasyll™
	ATC Super Sterasyll™
	Supercarb™
	Ultracarb™

Under-Counter Filters

HIP
(Food Grade Plastic)

 Inline version



Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Filter Candle Grade (see colour code)	Any 
Filter Candle Type	10 inches (254mm) long x 2 inches (49mm) in diameter with short threaded mount
Number of filter candles	1
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

DUO
(Food Grade Plastic)



Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Filter Candle Grade (see colour code)	Any 
Filter Candle Type	10 inches (254mm) long x 2 inches (49mm) in diameter with short threaded mount
Number of filter candles	2
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

HIS-PUSH FIT
(All Stainless Steel)



Connections	3/8 inch push fit inlet & outlet suitable for 3/8 inch flexible plastic pipe
Filter Candle Grade (see colour code)	Any 
Filter Candle Type	10 inches (254mm) long x 2 inches (49mm) in diameter with short threaded mount
Number of filter candles	1
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

Counter-Top Filters

HCS
(Stainless Steel Body, Chromium Plated Brass Base)



Connections	Diverter valve fits onto most common threaded kitchen mixer taps
Filter Candle Grade (see colour code)	Any 
Filter Candle Type	10 inches (254mm) long x 2 inches (49mm) in diameter with short threaded mount
Number of filter candles	1
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

HCP
(Food Grade Plastic)



Connections	Diverter valve fits onto most common threaded kitchen mixer taps
Filter Candle Grade (see colour code)	Any 
Filter Candle Type	10 inches (254mm) long x 2 inches (49mm) in diameter with short threaded mount
Number of filter candles	1
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

ICP
(Food Grade Plastic)



Connections	Diverter valve fits onto most common threaded kitchen mixer taps
Filter Candle Grade (see colour code)	Any 
Filter Candle Type	212mm long x 2 3/4 inches (67mm) in diameter with double O-ring mount
Number of filter candles	1
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

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

Wall-Mounted Filters

HIS
(Stainless Steel Body, Chromium Plated Brass Head)



Connections	1/2 inch BSP threaded inlet & outlet
Filter Candle Grade (see colour code)	Any 
Filter Candle Type	10 inches (254mm) long x 2 inches (49mm) in diameter with short threaded mount
Number of filter candles	1
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

HBA MkI
(Nylon Coated Aluminium)



Connections	1/2 inch BSP threaded inlet & outlet
Filter Candle Grade	Any 
Filter Candle Type	10 inches (254mm) long x 2 inches (49mm) in diameter with long threaded mount
Number of filter candles	1
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

HBA MkII
(Food Grade Plastic)



Connections	1/2 inch BSP threaded inlet & outlet
Filter Candle Grade	Any 
Filter Candle Type	10 inches (254mm) long x 2 inches (49mm) in diameter with long threaded mount
Number of filter candles	1
Output	Approximately 300 litres per hour at 3 bar (45psi) pressure*

Gravity Filters

LP2
(Food Grade Plastic)



Connections	Water is poured manually into the upper chamber
Filter Candle Grade (see colour code)	Sterasyll [®] , Super Sterasyll [®] or ATC Super Sterasyll [®] 
Filter Candle Type	7 inches (178mm) long x 2 inches (49mm) in diameter with long threaded mount & wing nut
Number of filter candles	2
Output	Approximately 20 litres per candle per 24 hour period

SS
(Stainless Steel)



Connections	Water is poured manually into the upper chamber
Filter Candle Grade (see colour code)	Sterasyll [®] , Super Sterasyll [®] or ATC Super Sterasyll [®] 
Filter Candle Type	7 inches (178mm) long with long threaded mount & wing nut
Number of filter candles	2, 3 or 4 filter candles depending on flow rate required
Output	Approximately 20 litres per candle per 24 hour period



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

Filter Elements

Which grade of ceramic filter do I need?

Doulton® and British Berkefeld® ceramic filter elements are available in 5 grades:

- **SterasyI™**
- **Super SterasyI™**
- **ATC Super SterasyI™**
- **Supercarb™**
- **Ultracarb™**

The grade you ultimately choose will depend on which contaminants you want to remove from the water.



	*SterasyI™	*Super SterasyI™	*ATC Super SterasyI™	*Supercarb™	*Ultracarb™
PATHOGENIC BACTERIA, CRYPTOSPORIDIUM, GIARDIA ETC.	✓	✓	✓	✓	✓
PARTICLES DOWN TO 0.5 MICRONS (RUST ETC.)	✓	✓	✓	✓	✓
CHLORINE (IMPROVE TASTE AND ODOUR)	✗	✓	✓	✓	✓
ORGANICS	✗	✓	✓	✓	✓
HEAVY METALS (PRIMARILY LEAD)	✗	✗	✓	✗	✓
SUITABLE FOR USE IN GRAVITY FILTERS	✓	✓	✓	✗	✗

*Please note that these products are not for sale in California. For products that are for sale in California please refer to our website www.faireyceramics.com

Which format of ceramic filter element do I need?

There are three ceramic filter formats: **Candle**, **Cartridge**, and **Rio 2000 module**.

The filter format you need will depend on the type of filter housing you are using and the flow rate you require.

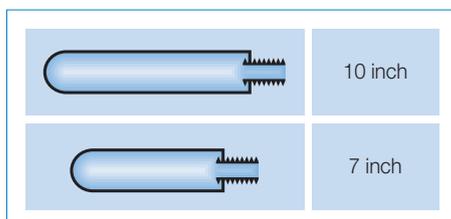
Candle

Candles have a domed end and a plastic mount on the top to fix them into the filter housing. The type of mount as well as the length and diameter of the candle will be dictated by the filter housing.

All Doulton® and British Berkefeld® filter housings use candle format filter elements. Please see Filter Housings section for more details.

Candle Dimensions

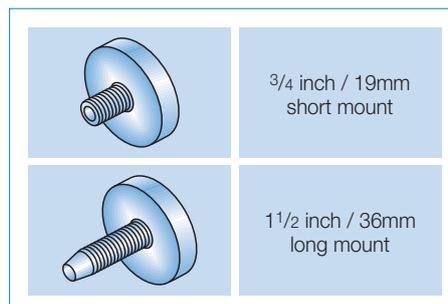
Candles are available in 2 standard lengths: 10 inch and 7 inch. Bespoke lengths can be accommodated subject to minimum runs.



Candles are also available in 2 standard diameters: Slimline (2 inches or 49mm) and Imperial (2 3/4 inches or 67mm).

Candle Mounts

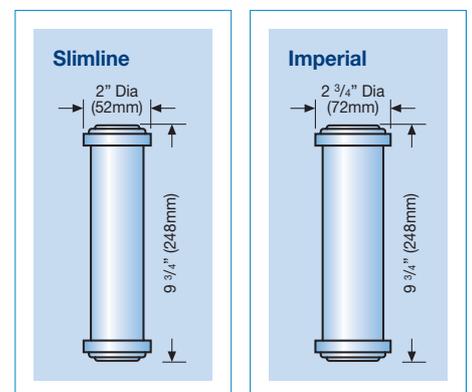
Candles are manufactured as standard with 1/4 inch BSP threaded long or short mounts.



Other types of mount can be manufactured to match specific filter housings. Details are available on request.

Cartridge

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



Rio 2000 High Flow Module



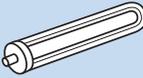
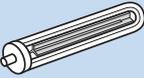
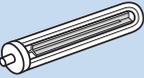
The Rio 2000 is a proprietary module designed to fit an industry standard 10 inch jumbo housing. The module is reusable so that only the 6 incorporated mini Sterasyl™ filter candles need to be replaced.

The increased ceramic surface area available for filtration of these multiple candles offers superior flow rates - approximately 1500 litres (390 US gallons) per hour at 4 bar (60 psi) pressure.

The Rio modules are available with or without a Doulton housing.



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.			 *Sterasyl™ Silver impregnated ceramic microfilter	 *Super Sterasyl™ Sterasyl microfilter plus granular activated carbon	 *ATC Super Sterasyl™ Sterasyl microfilter plus granular activated carbon and lead removal media	 *Supercarb™ Sterasyl microfilter plus carbon block core	 *Ultracarb™ Sterasyl microfilter plus carbon block core and lead removal media
Filtration Rating (% particulate filtration efficiency)	Absolute (defined as >99.99%)		0.9 micron	0.9 micron	0.9 micron	0.9 micron	0.9 micron
	Nominal (defined as >99.9%)		0.5 to 0.8 micron	0.5 to 0.8 micron	0.5 to 0.8 micron	0.5 to 0.8 micron	0.5 to 0.8 micron
Working Pressure (for pressure filter use)	Minimum		10 psi	10 psi	N/A	10 psi	10 psi
	Maximum		125 psi	125 psi	N/A	125 psi	125 psi
Working Parameters	Working Temperature Range		5 - 38 (°C)	5 - 38 (°C)	5 - 38 (°C)	5 - 38 (°C)	5 - 38 (°C)
	Working pH Range		5.5 - 9.5	5.5 - 9.5	5.5 - 9.5	5.5 - 9.5	5.5 - 9.5
	Suitable for use in Gravity Filters		YES	YES	YES	NO	NO
	Recommended Change Frequency		12 months	6 months	6 months	6 months	6 months
Flow Rate	Unrestricted Flow at 3 Bar Pressure	Litres per minute	5	4.5	N/A	3.7	3.3
		US gallons per minute	1.33	1.2	N/A	1	0.9
	To achieve maximum performance	Litres per minute	N/A	1.5	1.2 l/hr under gravity	1.9	1.9
		US gallons per minute	N/A	0.4	0.3 g/hr under gravity	0.53	0.53
Capacity	Before replacement to guarantee performance	Litres	10,000	2000	1500	3800	2300
		US gallons	2600	535	400	1000	600
Quality Approval	 approved version available		YES*	NO	NO	YES*	YES*
	 approved		YES	YES	NO	YES	YES
	Turbidity reduction to NSF std. 53		>98%	>98%	>98%	>98%	>98%
Pathogenic Organisms	% Bacteria Removal	E. Coli / Cholera / Shigella / Typhoid / Klebsiella Terrigena	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
	% Cyst Removal	Cryptosporidium	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
		Giardia	>99.99%	>99.99%	>99.99%	>99.99%	>99.99%
Trace Organics Removal	Insecticides	Lindane @ 0.1ppb presence	N/A	NO DATA	NO DATA	>85%	>85%
	Herbicides	Atrazine @ 1.2ppb presence	N/A	NO DATA	NO DATA	>85%	>85%
	Phenols	TCP @ 1.2ppb presence	N/A	NO DATA	NO DATA	>50%	>50%
	Polyaromatic Hydrocarbons	PAH's @ 0.2ppb presence	N/A	NO DATA	NO DATA	>95%	>95%
	Trihalomethanes	Chloroform @ 150ppb presence	N/A	NO DATA	NO DATA	>50%	>50%
Inorganics Removal	Free Chlorine Removal	2mg cl/l challenge	N/A	Under Gravity >95% Under Pressure >50%	>95% under gravity	>97% NSF Class 1 std. 42	>96% NSF Class 1 std. 42
	Lead Removal	@ pH 6.5 after 2,244L	N/A	N/A	>94% under gravity	N/A	>99.3% NSF std. 53
		@ pH 8.5 after 2,244L	N/A	N/A	N/A	N/A	99.2% NSF std. 53

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*NSF approved replacement elements are Doulton Sterasyl™, Doulton Supercarb™ and Doulton Ultracarb™ as verified by testing in HIP/Inline systems.

Why a ceramic filter?

The small and complex pore structure of Doulton[®] and British Berkefeld[®] ceramics makes them an ideal filter medium for drinking water:



High Efficiency Filter:

Doulton[®] and British Berkefeld[®] filters are capable of removing more than 99.99% of pathogenic bacteria, disease causing cysts such as Cryptosporidium and Giardia, and particles. See performance data table.



Long Life/Value for Money:

As confirmed by the user instructions supplied with the product, the outer shell of Doulton[®] and British Berkefeld[®] ceramic drinking water filters may be cleaned in order to prolong the life of the product. In this way, the filter can be re-used rather than replaced, giving it a much longer life-span than many other products on the market, saving you money. On average, a Doulton[®] or British Berkefeld[®] filter candle will remain effective for at least 6 months (depending on usage and water quality) before it will need to be replaced.



Anti-Bacterial Action:

FICL's ceramics contain a proprietary system to inhibit microbiological growth, meaning that there is no need to sterilise Doulton[®] or British Berkefeld[®] ceramic filters.



Retains Essential Minerals:

Doulton[®] and British Berkefeld[®] ceramic filters keep those minerals in the water, which are beneficial to health.



No Power Required:

Doulton[®] and British Berkefeld[®] drinking water filters do not require electricity to function, which means that they are cost-effective to run, are not vulnerable to interruption of power supplies, and can be used where there are no power supplies.

Multistage filtration in one filter cartridge:

Stage 1

Outer Shell - Micro Filtration

Stage 2

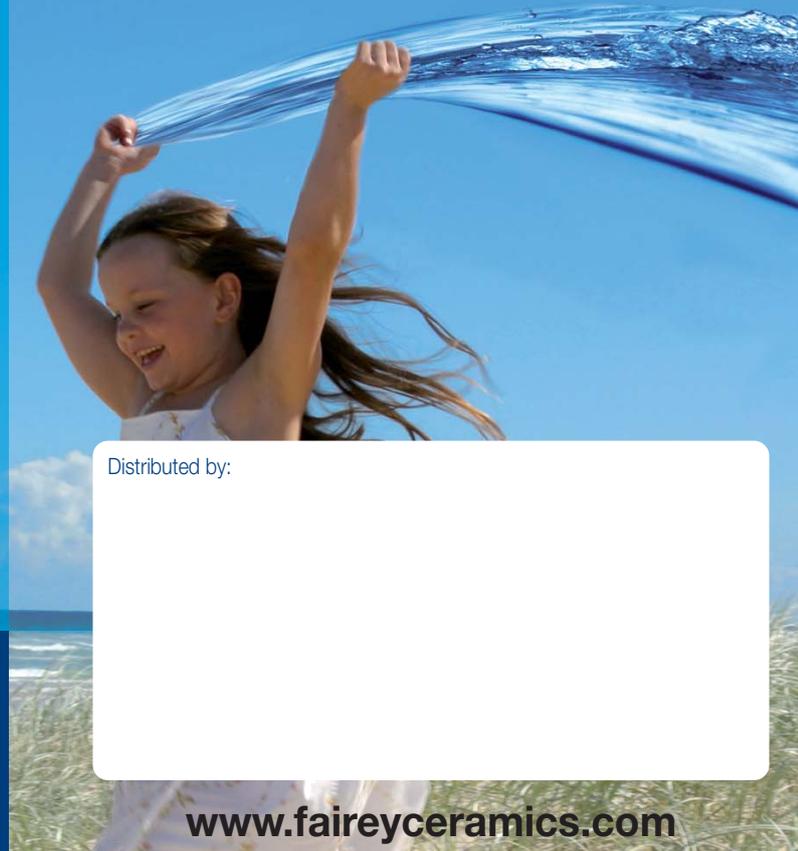
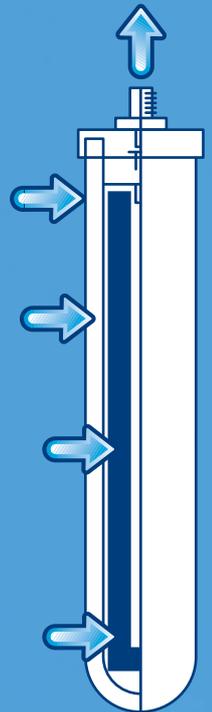
Anti-Bacterial formula within the ceramic matrix inhibits microbiological growth

Stage 3

Activated carbon in the Super SterasyI[™], ATC Super SterasyI[™], Supercarb[™] and Ultracarb[™] takes out chlorine and organics improving taste and odour

Stage 4

Ultracarb[™] and ATC Super SterasyI[™] also contains lead removal media, which takes out toxic lead



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

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Due to state regulations, the only products for sale in California, Iowa and Wisconsin are the HIP/Ultracarb[®] In-line filtration system and Doulton[®] Ultracarb[®] replacement filter elements.