

Doulton®

Ultracarb Ceramic Filter Cartridges

Doulton® has been a leading name in drinking water filtration for over 150 years.

Doulton® ceramic elements are now available in a range of standard cartridge formats which bring the quality associated with the Doulton® name to the general filtration market.

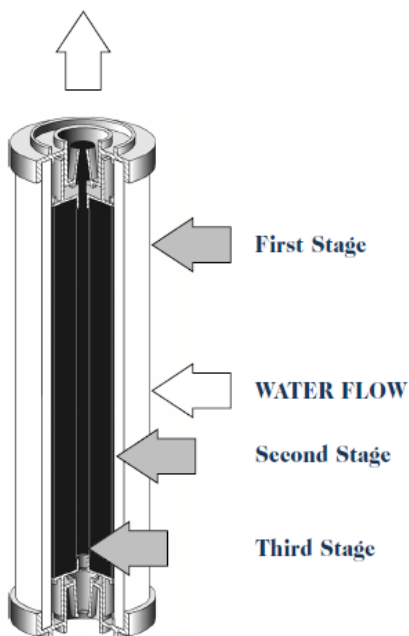
Ultracarb

Features

- Fits industry standard 10" and 20" filter housings
- Three filtration stages within a single cartridge
- Filtration efficiency of > 99.99% at 0.9 micron
- Filtration efficiency of > 99.9% at 0.5 to 0.8 micron
- Highly efficient bacteriological filtration
- Tested with live Cryptosporidium to a removal efficiency >99.999%
- Ideal for R O guard and post filtration
- Complimentary to UV systems
- High levels of Chlorine and organics removal
- Lead and other heavy metal reduction



**FILTERED
AND TREATED
WATER**



Ultracarb Cartridges

The Doulton Ultracarb is a three stage cartridge combining the highly efficient filtration properties of ceramic with the enhanced water treatment properties of activated carbon and the heavy metal reduction capabilities of ion exchange media.

First Stage

The first stage consists of Doulton Sterasyl® ceramic which provides genuine sub micron filtration. The cartridge reduces fine particulate matter, bacteria, cysts and turbidity. The incorporation of silver locked within the ceramic structure gives enhanced bacteriostatic and self sterilising properties.

Second Stage

An inner core of activated carbon block removes chlorine and organic compounds.

Third Stage

Ion exchange resin reduces Lead and other heavy metals.

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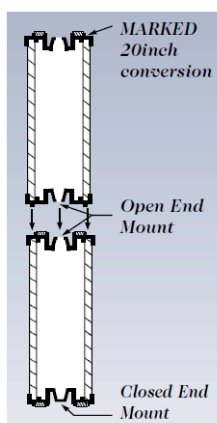
Filtration Data Sheet

Filtration Efficiency

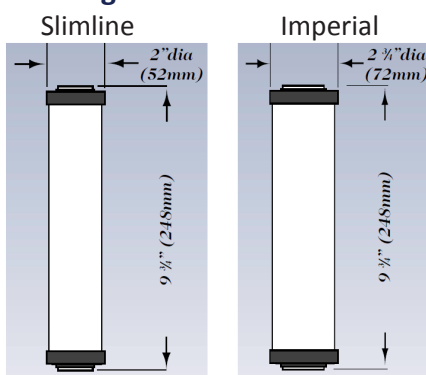
| | | |
|----------------------------|-----------------------|------------------|
| Absolute filtration rating | (defined as > 99,99%) | 0.9 micron |
| Nominal filtration rating | (defined as 99,9%) | 0.5 - 0.8 micron |
| % Bacteria removal | E.coli | > 99,99% |
| | Vibrio Cholera | > 99,99% |
| | Shigella | > 99,999% |
| | Salmonella Typhi | > 99,999% |
| % Cyst removal | Klebsiella Terrigena | > 99,99% |
| | Cryptosporidium | > 99,999% |
| | Giardia | > 99,999% |

20 Inch Filter Housings

Ultracarb Imperial (23/4") Filter cartridges can be supplied with a second adaptor cartridge to allow fitting in 20 inch filter housings. Due to slight variations in housing design, please state housing manufacturer when ordering.



Cartridge Dimensions



Product Specification

| | |
|---------------------------|-----------|
| Working temperature range | 5 - 38°C |
| Working pH range | 5.5 - 9.5 |
| Minimum working pressure | 10 psi |
| Maximum working pressure | 125 psi |

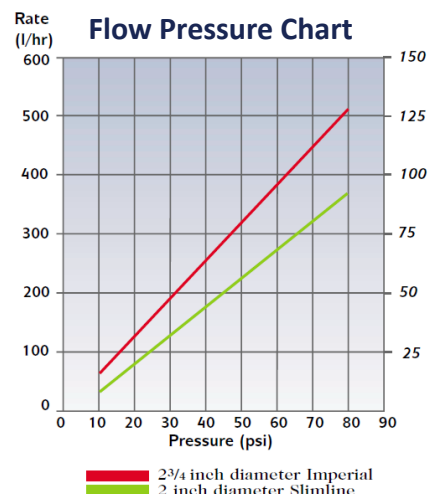
Cartridge Shipping Specification

| | Individual cartridge weight | Quantity per outer carton | Outer carton gross weight |
|-------------------------|-----------------------------|---------------------------|---------------------------|
| Slimline 9 1/4 x 2" | 0.3 kg | 25 | 9 kg |
| Imperial 9 1/4 x 2 3/4" | 0.55 kg | 9 | 7 kg |

Standard carton size 33 x 33 x 34 cm



BS EN ISO 9002: 1994
Certificate Number: 90082



Chlorine Reduction (@2ppm challenge)

| | Volume capacity @>97% removal efficiency | |
|--|--|------------|
| | Litres | US Gallons |
| Slimline 9 1/4 x 2" (tested @ 1.7 L/min flow rate) | 4000 | 1000 |
| Imperial 9 1/4 x 2 3/4" (tested @ 3.8 L/min flow rate) | 8000 | 2000 |

Lead Reduction (@150ppm challenge)

| | Volume capacity @>98% removal efficiency | |
|--|--|------------|
| | Litres | US Gallons |
| Slimline 9 1/4 x 2" (tested @ 1.7 L/min flow rate) | 4000 | 1000 |
| Imperial 9 1/4 x 2 3/4" (tested @ 3.8 L/min flow rate) | 8000 | 2000 |

Trace Organics Removal (3000L challenge)

| Organic | Challenge | Removal Efficiency |
|---------------------------|-------------------------------|--------------------|
| Insecticides | Lindane @ 0.1 ppb presence | > 85% |
| Herbicides | Atrazine @ 1.2 ppb presence | > 85% |
| Phenols | TCP @ 1.2 ppb presence | > 50% |
| Polyaromatic Hydrocarbons | PAH's @ 0.2 ppb presence | > 95% |
| Trihalomethanes | Chloroform @ 150 ppb presence | > 50% |

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