

Hydrosafe®

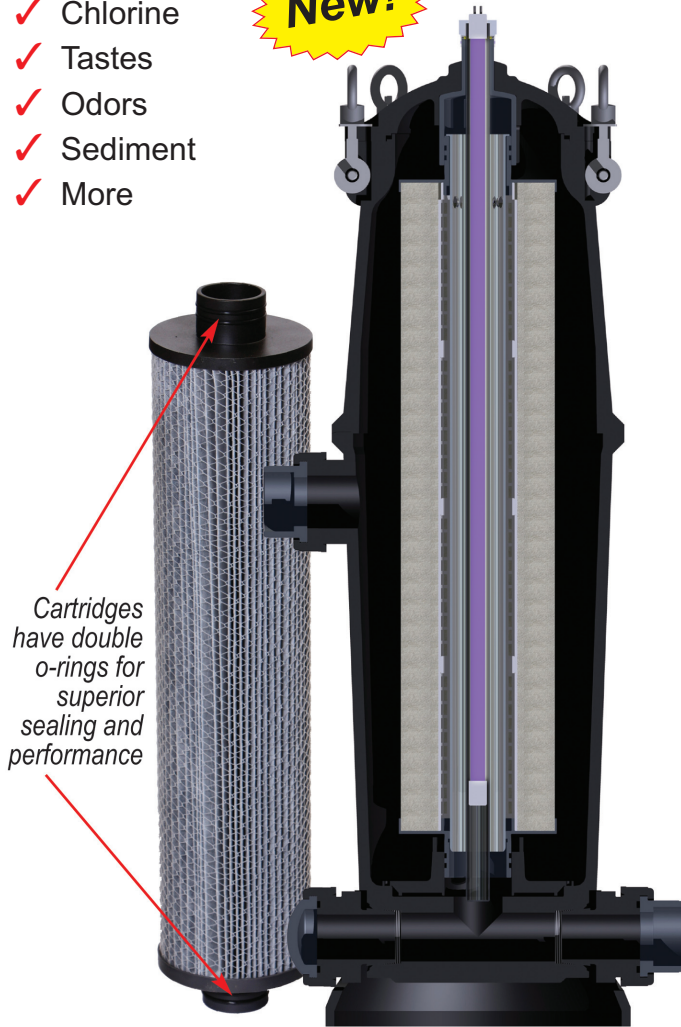
Whole House Filtration and Water Treatment

Triple-Treat™ Protection

The innovative HydroSafe® filtration system incorporates three technologies in one unit to provide three-step treatment to remove:

- ✓ Bacteria
- ✓ Cysts
- ✓ Chlorine
- ✓ Tastes
- ✓ Odors
- ✓ Sediment
- ✓ More

New!



HydroSafe®

Part Numbers

Part	Part Number
System	HSFS
Cartridge	HSFSCART-PAC
Lamp	HSFSLAMP
Sleeve	HSFSQUARTZ
Ballast	WUVBALLAST6-12
Coupler, 1"	HSFSCOUPPING-T

Three-In-One Technology

Provides peace of mind and safe, great tasting water, supplied to every tap in the house. Here's how it works:

Step #1

0.2 Micro-Filtration

Hydro-Safe filter cartridge is pleated for greater surface area using a micro-fiber, rated at 0.2 micron. This unique filter media is certified under NSF / ANSI Standard 53 for cysts reduction with the capacity to remove sub-micron particles and harmful microorganisms with very little pressure drop or flow restriction.

Step #2

Carbon Treatment

An exceptionally fine activated carbon powder is added to the sub micron filter fiber using an electrostatic bonding process. Activated carbon provides a secondary treatment process to remove chlorine, taste and odors.

UV Light Disinfection

During the final process, water flows into a stainless steel reaction chamber where it is exposed to a 254 nanometer UV lamp. Inside this chamber bacteria, viruses and other harmful microorganisms are destroyed to provide disinfection without the use of chemicals.

Specifications (Model HSFS)

Flow rate (max.)	14 GPM
Voltage (lamp)	110 Volts
Cartridge capacity (Gals./ average use)	200,000 Gallons
UV dose rate (mJ/cm2)	40,000 +
Bacteria reduction*	99.9%

*E-Coli used for tests with cartridge in place.

IMPORTANT: It is essential to install a one micron pre-filter prior to the unit to extend the life of the 0.2 micron cartridge.

Independent Lab Validated

Hydro-Safe systems have been tested by Bio-Vir labs to validate performance.

Test results confirm bacteria is reduced by 99.9%.

E-coli bacteria used for tests.



Watts® Jumbo Cartridge Filters

With optional activated carbon cartridge to remove Chlorine, bad tastes, foul odors and sediment.

Rugged Construction

Filter housings are made of rugged, glass-reinforced polypropylene so they will not chip, rust or dent. And because all wetted surfaces are non-metallic, they are ideal when chemical compatibility is an issue and for sea water applications.

Low Cost

Filters are an economical replacement for stainless steel filtration equipment because of their non-metallic construction and today's high cost of stainless steel!

Applications

Jumbo Cartridge Filters are ideal for a wide range of applications, including:

- Whole house filtration
- Commercial filtration
- Industrial filtration
- Pre-filtration for reverse osmosis equipment
- Community water systems
- Sea water applications due to their non-corrosive construction
- Replacement for bag filters more filter area
- Replacement for multiple cartridge filters for greater convenience
- Water for livestock and poultry



Model: BBH-150

Proprietary Cartridges

The replacement cartridge for the Watts whole house filter is totally proprietary, so you may enjoy the replacement cartridge business over the life of the equipment

Conserves Water!

Watts whole house filters with our proprietary pleated activated carbon cartridge conserves water because backwashing is not required, making them 100% efficient.

Double O-Rings

For superior sealing.

E-Z Change-Out

Cartridge replacement is easy as 1-2-3:

1. Remove swing bolts.
2. Remove lid.
3. Rotate cartridge 1/4 turn and pull-up.

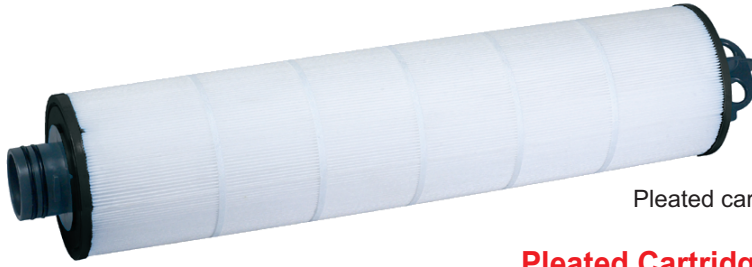
Filter inlet.

Three Cartridge Types!

- Pleated, for flow rates up to 150 GPM using 100% cellulose free media (cleanable 5 micron up).
- Low cost Melt Blown for depth filtration, deal for slimy water.
- Activated carbon to remove chlorine, tastes, odors and sediment. Ideal for whole house treatment to 20 GPM offering 150,000 gallon capacity.

Filter outlet.

Three Cartridge Types



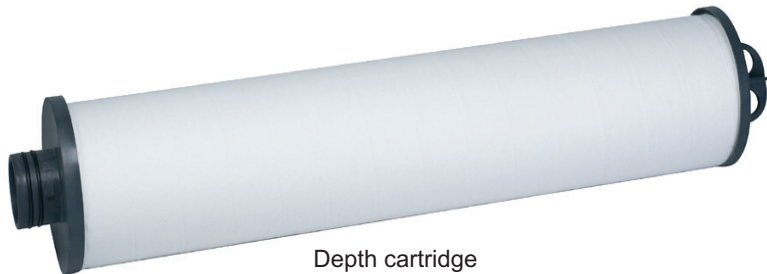
Pleated cartridge

Pleated Cartridges

Ideal for more critical applications, offering greater efficiency, more surface area for greater throughput and reduced cost.

Product code	Media Type	Micron Rating	Per case
BBC-150-P1A	PP	1 Absolute	1
BBC-150-P1	PP	1	1
BBC-150-P5	PP	5	1
BBC-150-P20	PE	20	1
BBC-150-P50	PE	50	1
BBC-150-PM150	Mesh	150	1

Note: 5, 20, 50 and 150 micron cartridges are cleanable and reusable to reduce costs.

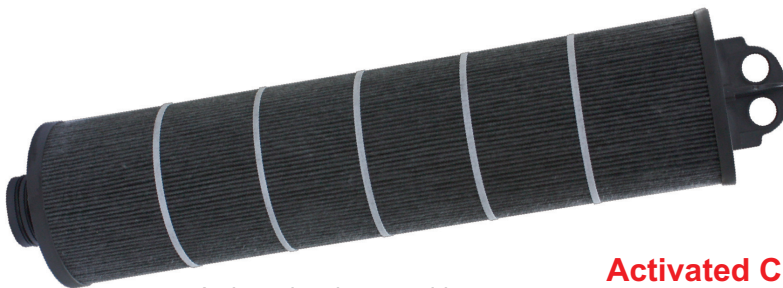


Depth cartridge

Depth Cartridges

Melt blown Polypropylene cartridges are recommended when depth filtration is necessary for gelatinous substances and when chemical resistance may be a requirement.

Product code	Media Type	Micron Rating	Per case
BBC-150-D1	PP	1	1
BBC-150-D5	PP	5	1
BBC-150-D20	PP	20	1
BBC-150-D50	PP	50	1



Activated carbon cartridge

Activated Carbon Cartridges

Ideal for whole house filtration to reduce chlorine, taste, odors and sediment.

Product Code	Max. Flow	Capacity	Chlorine Reduction
BBC-150-AC	14 GPM	140,000 Gals.	90%

Note: We build filtration systems, or they may be installed on site. For more information please inquire!

Specifications

Jumbo Cartridge Housing (P/N: BBH-150)

Specifications	Data
Body (all wetted surfaces)	Glass reinforced PP
Cartridge end caps	Glass reinforced PP
Swing bolts	304 stainless steel
O-rings (cartridges)	EPDM (Viton optional)
O-ring (lid)	EPDM (Viton optional)
Pipe fittings	2" slip
Overall height	40"
Width (vessel OD)	12"

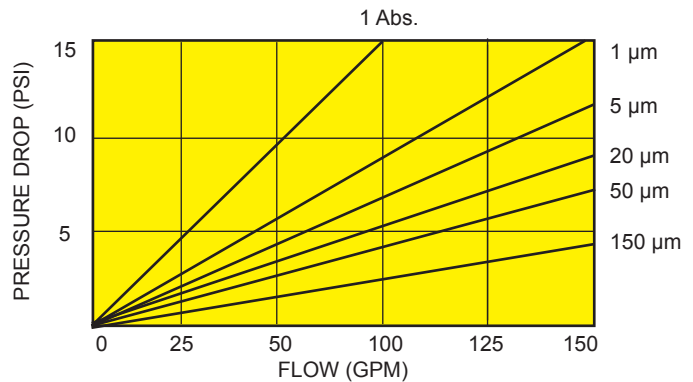
Jumbo Cartridges

Specifications	Data
Maximum flow rate	150 GPM* (36 M ³ /hr.)
Maximum flow (carbon)	15 GPM
Maximum flow (1 Absolute)	50 GPM
Maximum temperature	125°F (52°C) @ 80 psi
Maximum working pressure	125 psi (8.75 bar)
Burst test	300 psi
Cycle test	100,000

* Highly dependent on micron rating, solids content and other factors. Please see pressure drop chart below.

Low Pressure Drop

Jumbo Cartridge Filters housings are designed to minimize pressure drop, by using 2" pipe fittings and large diameter center tubes. (See chart at right for pressure drop data using pleated cartridges.)



Jumbo Cartridge Filter Specifications

	Pleated	Depth	Activated Carbon
Media	PP	PP	Activated carbon
End caps	PP + FG	PP + FG	PP
Center tubes	PP	PP	PP
Maximum flow rate (GPM)	150	100	15
Maximum temperature	125°F (52°C)	125°F (52°C)	125°F (52°C)
Maximum ΔP (psi)	30	40	30
Chemical resistance	Excellent	Excellent	Not a factor (for water)
Length (media)	26-1/4"	26-1/4"	26-1/4"
O-rings (dual)	EPDM	EPDM	EPDM
Shipping weight (lbs.)	5	5	7
Carton dimensions	7" x 7" x 31"	7" x 7" x 31"	7" x 7" x 31"
Micron ratings	1A, 1, 5, 20, 50, 150	1, 5, 20, 50	10

Note: Flow rates are based on each specific application, micron rating, solids content and a number of other factors. End user should consider these factors when selecting the filter housing (or number of filter housings) needed for their particular requirement.

Spare Parts

Part Numbers	Description
BB-LID	Lid
BB-PR	Pressure release button
PG15L25	Pressure gauge
BB-EYEBOLT	Eye bolt
BB-POST	Post for eye bolt
BB-WASHER	Washer for eye bolt
DRAINPLUGOR	Drain plug with o-ring

Part Numbers	Description
BB-ORING-E	O-ring for lid (EPDM)
BB-ORING-V	O-ring for lid (Viton)
BC-ORING-E	O-ring for cartridge (EPDM)
BC-ORING-V	O-ring for cartridge (Viton)
BB-COUPLER	Pipe fitting coupler (two pieces)
BB-COUPLER-OR	O-ring for coupler
BB-PLUG	Plug for second outlet