

PLEATED CELLULOSE CARTRIDGES

APPLICATION

Cellulose cartridges provide low cost filtration and are used to eliminate visible and even finer suspended sediment particles from water. The 5 micron cartridges remove fine sediment, 10 micron are designed for regular sediment and the 20 and 50 micron are designed for coarser filtration such as sand laden well water, large rust and scale particles in household water supplies.

CONSTRUCTION / RATINGS

- Pleated cellulose paper media
- Temperature rating 125°F (52°C)

NOTE: Certain types of harmless bacteria will attack cellulose material. Cartridges containing cellulose may seem to disintegrate, produce a "sewer" or "rotten-egg" odor, or form a black precipitate due to the bacteria. If you notice any of the above problems while using the cellulose media cartridges, switch to a synthetic media cartridge or consult the manufacturer.



-----2-3/4" x 9 3/4"-----			-----2-3/4" x 20"-----				
PART NO.	LIST PRICE-A	FLOW GPM	PART NO.	LIST PRICE-A	FLOW GPM	MICRON RATING	QUANTITY BAG CTN
14-PCE1-05	12.34	1 - 10	14-PCE2-05	24.31	1 - 20	5	1 20
14-PCE1-10	8.95	1 - 10	14-PCE2-10	20.87	1 - 20	10	1 20
14-PCE1-20	9.49	1 - 12	14-PCE2-20	21.15	1 - 15	20	1 20

GIANT

-----4 1/2" x 9 3/4"-----			-----4 1/2" x 20"-----				
PART NO.	LIST PRICE-A	FLOW GPM	PART NO.	LIST PRICE-A	FLOW GPM	MICRON RATING	QUANTITY BAG CTN
14-GPCE1-20	26.45	1 - 20	14-GPCE2-20	46.87	1 - 25	20	1 8

ONE MICRON ABSOLUTE RATED PLEATED POLYPROPYLENE CARTRIDGES

APPLICATION

To date, the best known method to control cryptosporidium and giardia cysts in water is through the use of micro filtration, or employment of absolute rated filter cartridges fine enough to remove cyst sized particles. Surface waters are most susceptible because animals live near by, contributing to the cyst population found in water, one micron absolute rated cartridges meet or exceed the three log (99.9%) removal requirements described in National Sanitation Foundation Standard 53 for cyst sized particles. For this reason, these cartridges are ideal to remove sediment, silt, turbidity and control cryptosporidium, giardia cysts and other harmful micro-organisms to help ensure cyst-free drinking water taken from reservoirs, lakes, rivers, ponds and streams.

CONSTRUCTION / RATING

- FDA listed materials for use in potable water and liquid food applications.
- Pleated polypropylene filter media provides more surface area for longer filter life and increased particle removal. End caps, centre tubes and media are thermally bonded as one integral component for added strength and to provide superior end sealing
- Temperature rating 140°F (60°C)
- Up to 6 GPM per 9-3/4" standard cartridge. For giant cartridges, flow rates are limited by the filter housing.



INDEPENDENT LAB VALIDATED - Tests conducted by Analytical Services, Inc. / Williston, VT

To demonstrate the performance of Poly-Pleat™ cartridges and Harmsco filter housings, Analytical Services, Inc. a highly respected independent testing facility, was selected to conduct challenge studies using live organisms. The challenge system was composed of a reservoir, pump, static mixer, pressure gauges and challenge bleed-off assembly. The test protocol has been reviewed and approved by leading states in the U.S. and is considered the most stringent method used for cyst reduction testing. The protocol includes two separate spikes on two different but identical test filters using live giardia lamblia cysts and cryptosporidium parvum oocyst. An initial giardia / cryptosporidium spike is performed early in the filter run to document the filter's efficiency. After injection of the challenge organisms, test samples are collected in two phases during an uninterrupted 36 hour run. During the first sampling phase of 1-18 hours, calibrated side-stream samples were collected from both the influent and the effluent of the test filter. Because no cysts are injected during the second phase, only effluent samples are collected during the 19-36 hour test period. Results of the 19-36 hour challenge tests are as follows:

Challenge Organisms - Giardia lamblia cysts Percent Removed - 99.99%

□ NSF 61 approved

PART NO.	CARTRIDGE SIZE	FLOW GPM	MICRON RATING	BAG CTN	LIST PRICE-A
14-PP1-01A	2-3/4" x 9-3/4"	3-6	1 Absolute*	1 24	44.15
14-PP2-01A	2-3/4" x 20"	3-6	1 Absolute*	1 24	87.96
GIANT					
14-GPP1-01A	4-1/2" x 10"	1 - 15	1 Absolute*	1 8	101.67
14-GPP2-01A	4-1/2" x 20"	1 - 30	1 Absolute*	1 4	170.50

* The Water Quality Association defines absolute cartridges as being 99.9% efficient or more at stated micron ratings

PLEATED POLYESTER CARTRIDGES - SERIES "EPPE", "PPE" & "GPPE"

APPLICATION

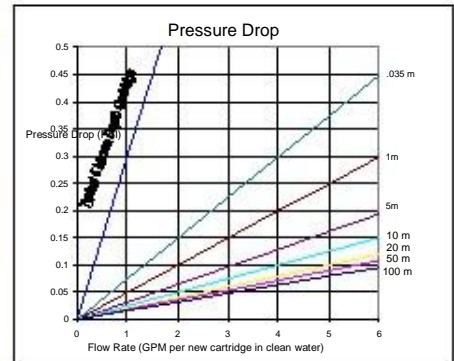
- These cartridges may be used for potable water and food processing since they are manufactured completely from FDA approved materials

FEATURES

- Color coded end caps for easy identification 0.35 brown, 1 tan, 5 white, 10 red, 20 blue, 50 yellow, 100 green
- Available in an economy model (4 sq. ft.) and high capacity model (6 sq. ft.) of media for maximum dirt, sediment and other particulate removal requiring fewer cartridge change-outs
- Cartridges can be cleaned and reused in most applications and micron ratings

CONSTRUCTION / RATING

- Thermally bonded to provide an integral bonding between the pliable PVC end caps, PVC center tubes for added strength and longer useable life. Withstand pressure differentials to 80 psid at $_{0}^{\circ}\text{F}$ (21°C)
- Temperature rating: 140°F (60°C)
- pH rating: 3 to 11



Note: Low pressure drop - data shown above is based on 9 3/4" long cartridge in clean water

PART NO.	LIST PRICE - A	FLOW GPM	PART NO.	LISTFLOW PRICE - A	GPM	MICRON RATING	QUANTITY BAG CTN
2 3/4" x 9 3/4" - approx. 4 sq. ft. of media			2 3/4" x 9 3/4" - approx. 6 sq. ft. of media				
14-EPPE1-01	14.82	3-6	14-PPE1-0.35	26.59	3-6	0.35	1 24
14-EPPE1-05	13.83	3-6	14-PPE1-01	19.29	3-6	1	1 24
			14-PPE1-05	16.47	3-6	5	1 24
			14-PPE1-10	16.47	3-6	10	1 24
14-EPPE1-20	13.33	3-6	14-PPE1-20	16.47	3-6	20	1 24
14-EPPE1-50	13.33	3-6	14-PPE1-50	16.47	3-6	50	1 24
2 3/4" x 20" - approx. 12 sq. ft. of media							
14-PPE2-05	33.66	6 - 12					1 24
14-PPE2-20	33.66	6 - 12					1 24

GIANT

4 1/2" x 10" - approx. 12 sq.ft. of media				4 1/2" x 20" - approx. 25 sq. ft. of media						
PART NO.	LIST PRICE - A	FLOW GPM	QUANTITY BAG CTN	PART NO.	LIST PRICE - A	FLOW GPM	MICRON RATINGS	QUANTITY BAG CTN		
14-GPPE1-01	46.74	1 - 15	1 8	14-GPPE2-01	82.77	1 - 30	1	1	4	
14-GPPE1-05	44.15	1 - 15	1 8	14-GPPE2-05	70.92	1 - 30	5	1	4	
14-GPPE1-20	41.19	1 - 15	1 8	14-GPPE2-20	70.92	1 - 30	20	1	4	
14-GPPE1-50	41.19	1 - 15	1 8	14-GPPE2-50	70.92	1 - 30	50	1	4	

Note: 2-3/4" x 40" cartridges with 24 square feet of media are available upon special request.



HIGH TEMPERATURE PLEATED FILTER CARTRIDGES

APPLICATION

- Manufactured from pleated polyester media on polypropylene center tube complete with pliable PVC end caps. These cartridges are ideal for sediment removal from liquids with temperatures up to 200°F (93°C). Temperature limits may vary and depend on pressure and time under load.
- Maximum Temperature: 200°F (93°C)

PART NO.	FLOW GPM	MICRON RATING	QUANTITY BAG CTN	LIST PRICE-A
14-HPPE1-01	3-6	1	1 24	21.41
14-HPPE1-05	3-6	5	1 24	18.45
14-HPPE1-20	3-6	20	1 24	18.45
14-HPPE1-50	3-6	50	1 24	18.45



SPUN POLYPROPYLENE DEPTH CARTRIDGES

The BII filter cartridge is manufactured with melt blown technology into a multi-layer structure to provide superior filter efficiency, pressure drop and cartridge life.

APPLICATION

- Standard specification meets most of the housings in the market.
- General industrial RO systems, food and beverage, commercial and home RO system use.

FEATURES

- Four (4) layer (outside-in), varied micron rate filter structure to capture particles (from larger to smaller) effectively and prolong cartridge life. Cartridge can achieve up to two times that of the double layers.
- 100% high purity polypropylene which is surfactant free, binder free and adhesive free.
- Good chemical resistance and is not prone to bacterial attack.
- NSF approved 42

OPERATING CONDITIONS

- Maximum operating temperature rating: 140°F (60°C)
- Maximum operating forward pressure drop: 60(C): 1.8kg/cm2
20(C) 3.2 kg/cm2
- Replacing pressure drop 1.5kg/cm2

PRODUCT SPECIFICATIONS

- Micron rating: (Normal/Nominal)
- Materials of construction: 100% melt-blown micron-denier polypropylene fiber
- Length 9.87" Inner Diameter: 28 mm Outer Diameter: 63 mm

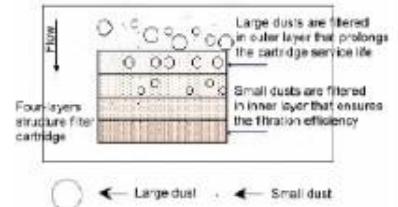
-----2 1/2" x 9 7/8"-----

PART NO.	LIST PRICE - A	FLOW GPM
14-SP1-01	2.18	1-3
14-SP1-05	2.18	1-5
14-SP1-10	2.18	1 - 10
14-SP1-25	2.18	1 - 12
14-SP1-50	2.18	1 - 1_

-----2 1/2" x 20"-----

PART NO.	LIST PRICE - A	FLOW GPM	MICRON RATINGS	QUANTITY BAG CTN
14-SP2-01	4.37	1-6	1	1 20
14-SP2-05	4.37	1 - 10	5	1 20
14-SP2-10	4.37	1 - 20	10	1 20
14-SP2-25	4.37	1 - 30	25	1 20
14-SP2-50	4.37	1 - 35	50	1 20

NOTE: 30" and 40" cartridges available upon request.



GIANT SPUN POLYPROPYLENE DEPTH CARTRIDGES

APPLICATION

- Standard specifications meets most of the housings in the market.
- Domestic and commercial Pre-RO (Reverse Osmosis) usage.

FEATURES

- Four (4) layer (outside-in), varied micron rate filter structure to capture particles (from larger to smaller) effectively and prolong cartridge life. Cartridge can achieve up to two times that of the double layers.
- 100% high purity polypropylene which is surfactant free, binder free and adhesive free.
- Good chemical resistance and is not prone to bacterial attack.
- NSF approved 42

OPERATING CONDITIONS

- Maximum operating temperature: 1_6°F(80°C)
- Maximum pressure drop: 80 psi
- Recommended replacable pressure drop: 35 psi

PRODUCT SPECIFICATIONS

- Micron rating: (Normal/Nominal).
- Materials of construction: 100% melt-blown micron-denier polypropylene fiber.
- Length 9.87" Inner Diameter: 30 mm Outer Diameter: 110 mm

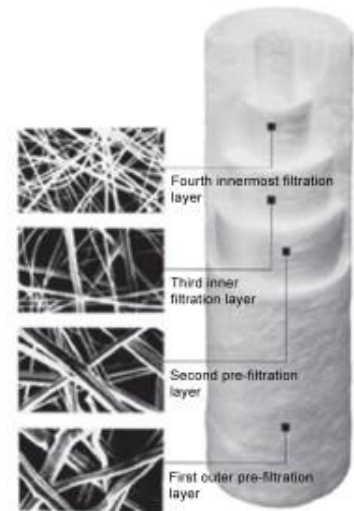
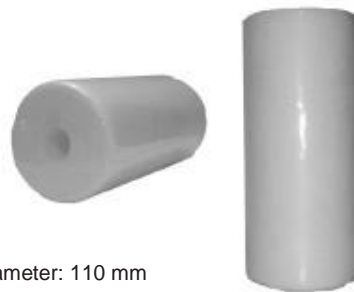
-----4 1/2" x 10"-----

PART NO.	LIST PRICE - A	FLOW GPM
14-GSP1-01	10.80	1 - 10
14-GSP1-05	10.80	1 - 15
14-GSP1-10	10.80	1 - 20
14-GSP1-25	10.80	1 - 25

-----4 1/2" x 20"-----

PART NO.	LIST PRICE - A	FLOW GPM	MICRON RATINGS	QUANTITY BAG CTN
14-GSP2-01	21.60	1 - 15	1	1 8
14-GSP2-05	21.60	1 - 25	5	1 8
14-GSP2-10	21.60	1 - 30	10	1 8
14-GSP2-25	21.60	1 - 35	25	1 8

NOTE: 30" and 40" cartridges available upon request.



STRING WOUND "FDA" POLYPROPYLENE CARTRIDGE

APPLICATION

For a wide range of filtering applications, manufactured from FDA grade polypropylene. These cartridges are very suitable for potable water filtration. Ideal for removing very fine sediment right through to very coarse sediment, at ambient temperatures. NOTE: Be careful when comparing pricing - there are lower cost "INDUSTRIAL GRADE" polypropylene cartridges being sold that are not meant for filtering potable water.

FEATURES

Double and triple length cartridges minimize change out time and eliminate the possibility of blow-by as a result of using multiple cartridges in conjunction with cartridge couplers.

CONSTRUCTION / RATING

Cartridge is made by diagonally winding a precise pattern of carefully selected fibers on a centre core. The pattern is designed to create hundreds of identical, tapered, spiral passageways. During the winding, fibers are combed across the passage and locked in place by succeeding layers. Solid particles are removed by entrapment in this highly efficient filter media. Filtration takes place throughout the entire cartridge, not just on the surface, so large amounts of contaminant are trapped without a sudden rise in pressure caused by surface blinding. By varying the wind pattern, cartridges are fabricated to give a pre-determined micrometre rating.

Filter media: Polypropylene Centre core: Polypropylene

Temperature rating: 140°F (60°C)



FDA
POLY

----- 2 1/2" x 9 3/4"-----				-----2 1/2" x 20"-----				
PART NO.	LIST PRICE - A	FLOW GPM	QUANTITY BAG CTN	PART NO.	LIST PRICE - A	FLOW GPM	QUANTITY BAG CTN	MICRON RATINGS
14-SWP1-01	4.21	1-3	1 30	14-SWP2-01	8.42	1-6	1 15	1
14-SWP1-05	4.13	1-5	1 30	14-SWP2-05	8.27	1 - 10	1 15	5
14-SWP1-10	3.94	1 - 10	1 30	14-SWP2-10	7.88	1 - 20	1 15	10
14-SWP1-25	3.64	1 - 15	1 30	14-SWP2-25	7.27	1 - 30	1 15	25
14-SWP1-50	3.64	1 - 20	1 30	14-SWP2-50	7.27	1 - 50	1 15	50

Note: Pricing for 30" and 40" available upon request

GIANT STRING WOUND "FDA" POLYPROPYLENE CARTRIDGES

-----4 1/2" x 10"-----				-----4 1/2" x 20"-----				
PART NO.	LIST PRICE - A	FLOW GPM	QUANTITY BAG CTN	PART NO.	LIST PRICE - A	FLOW GPM	QUANTITY BAG CTN	MICRON RATING
14-GSWP1-01	16.45	1-8	1 8	14-GSWP2-01	32.91	1 - 16	1 4	1
14-GSWP1-05	15.61	1 - 15	1 8	14-GSWP2-05	31.23	1 - 30	1 4	5
14-GSWP1-10	14.89	1 - 20	1 8	14-GSWP2-10	29.77	1 - 40	1 4	10
14-GSWP1-25	14.35	1 - 25	1 8	14-GSWP2-25	28.70	1 - 50	1 4	25
14-GSWP1-50	14.35	1 - 35	1 8	14-GSWP2-50	28.70	1 - 65	1 4	50



300°F HIGH TEMP. STRING WOUND BLEACH COTTON CARTRIDGES

APPLICATION

For filtration of liquids with temperatures up to 300°F (149°C) suitable for a wide range of filtering applications including potable water. Suitable for removing very fine sediment right through to very coarse sediment.

FDA approved

CONSTRUCTION

Basic construction same as the above string wound cartridges with the exception that the cartridges are wound with bleached cotton fibres on a #304 stainless steel core.

#304 SS core



-----2-1/2" x 9 3/4"-----				-----2-1/2" x 20"-----				
PART NO.	LIST PRICE - A	FLOW GPM	QUANTITY BAG CTN	PART NO.	LIST PRICE - A	FLOW GPM	QUANTITY BAG CTN	MICRON RATINGS
14-SWBC1-05	6.54	1-5	1 30	14-SWBC2-05	13.09	1 - 10	1 15	5
14-SWBC1-10	6.39	1 - 10	1 30	14-SWBC2-10	12.78	1 - 20	1 15	10

Note: Other micron sizes available. Please contact your Sales Rep.

GIANT 300°F HIGH TEMP. STRING WOUND BLEACH COTTON CARTRIDGES

-----4-1/2" x 10"-----				-----4-1/2" x 20"-----				
PART NO.	LIST PRICE-A	FLOW GPM	QUANTITY BAG CTN	PART NO.	LIST PRICE-A	FLOW GPM	QUANTITY BAG CTN	MICRON RATINGS
14-GSWBC1-05	18.02	1-12	1 8	14-GSWBC2-05	36.05	1-22	1 4	5
14-GSWBC1-10	17.56	1-13	1 8	14-GSWBC2-10	35.13	1-24	1 4	10



300°F HIGH TEMP. STRING WOUND NATURAL COTTON CARTRIDGES

APPLICATION

For filtration of liquids with temperatures up to 300°F (149°C) (when used in conjunction with stainless steel filter housings) suitable for a wide range of filtering applications. Suitable for removing very fine sediment right through to very coarse sediment.

Not FDA approved

CONSTRUCTION

Basic construction same as the above string wound cartridges with the exception that the cartridges are wound with natural cotton fibres on a tin core.



-----2-1/2" x 9 3/4"-----				-----2-1/2" x 20"-----					
PART NO.	LIST PRICE - A	FLOW GPM	QUANTITY BAG CTN	PART NO.	LIST PRICE - A	FLOW GPM	MICRON RATINGS	QUANTITY BAG CTN	
14-SWNC1-05	4.32	1-5	1 30	14-SWNC2-05	8.65	1 - 10	5	1 15	
14-SWNC1-10	4.13	1 - 10	1 30	14-SWNC2-10	8.27	1 - 20	10	1 15	

ACTIVATED CARBON POWDER - IMPREGNATED CELLULOSE CARTRIDGES

APPLICATION

By impregnating cellulose with carbon powder a dual-purpose filter is created. In addition to filtering out fine sediment particles, it helps to reduce the unwanted tastes, odors and chlorine found in tap water and many industrial liquids. They are also excellent polishing filters when used in process or closed-loop systems.

CONSTRUCTION / RATING

- Powdered-activated carbon impregnated cellulose filter media
- Vinyl plastisol end caps, polypropylene core
- Cellulose polyester reinforcement backing c/w polyethylene outer sheath
- Temperature rating 125°F (52°C)



PART NO.	CARTRIDGE SIZE	FLOW GPM	MICRON RATINGS	CHLORINE REDUCTION @ FLOW RATE (GPM)	QUANTITY BAG CTN	LIST PRICE-A
14-PAC1-05	2-1/2" x 9-3/4"	1-5	5	5,000 Gal. @ 1 gpm	1 20	13.65
14-PAC2-05	2-1/2" x 20"	1 - 10	5	10,000 Gal @ 1 gpm	1 20	31.09
GIANT SIZE						
**14-GPAC1-10	4-1/2" x 10"	1-8	10	N/A	1 8	47.65
14-GPAC2-05	4-1/2" x 20"	1 - 20	5	45,000 Gal @ 4 gpm	1 8	107.79

**Note: 10" Giant Cartridge is not available exactly as shown above. Please note that Part No. 14-GPAC1-10 is constructed from powder activated carbon impregnated polyester rather than cellulose and is rated for 10 microns.

CARBON BLOCK (BRIQUETTE) CARTRIDGES

APPLICATION

Combining the long life of carbon block filtration with the higher dirt holding capacity of wound carbon - impregnated paper cartridges like our PAC (Powder Activated Carbon) series. This combination makes them true "dual - purpose" filter cartridges and a very economical alternative to granular activated carbon cartridges. These cartridges are suitable for chlorine, taste, odor and sediment reduction down to 10 microns in potable water filtration, as well as many industrial, commercial and food service applications.

FEATURES

- The higher porosity of a 10-micron cartridge provides a much greater dirt holding capacity, the higher micron rating prevents cartridges from plugging before their absorption ability is exhausted, maximizing the capacity / utilization of the carbon
- Tested and certified by NSF international under ANSI / NSF standard 42-conforms to materials and structural requirements

CONSTRUCTION / RATING

- Manufactured entirely from FDA-compliant materials
- Bonded powder activated carbon filter media
- 10 micron rating based on 85% or greater removal of given particle size
- Polypropylene end caps, inner / outer wraps and netting
- Buna-N gaskets
- Temperature Range 40°F to 180°F(4.4°C to 82.2°C)



PART NO.	CARTRIDGE SIZE	MICRON RATINGS	FLOW GPM	PRESSURE DROP (psi) @ FLOW RATE (GPM)	CHLORINE REDUCTION @ FLOW RATE (GPM)	QUANTITY BAG CTN	LIST PRICE-A
14-CBQ1-10	2-3/4" x 9-3/4"	10	1-3	0.34 psi @ 1.0 GPM	3,000 Gal. @ 1.0 GPM	1 20	19.96
14-CBQ2-10	2-3/4" x 20"	10	1-6	N/A	N/A	1 20	39.48

CARBON BLOCK (BRIQUETTE) CARTRIDGES

APPLICATION

□ Designed for long-life of water for chlorine, taste and odor and sediment reduction down to 10 microns. Manufactured entirely from FDA-compliant materials, these cartridges are suitable for potable water filtration, as well as many industrial, commercial and food service applications.

FEATURES

□ The higher porosity of a 10-micron cartridge, these cartridges have a much greater dirt holding capacity, the higher micron rating prevents cartridges from plugging before their absorption ability is exhausted, maximizing the capacity / utilization of the carbon.

CONSTRUCTION / RATING

- Bonded granular activated carbon filter media
- 10 micron rating at 90% efficiency (5 micron at 85% efficiency per NSF Standard No. 42) micron ratings based on 85% or greater removal of a given particle size
- Polypropylene end caps, inner / outer wraps and netting
- Buna-N gaskets
- Temperature Range 40°F to 180°F (4.4°C to 82.2°C)



PART NO.	CARTRIDGE SIZE	FLOW GPM	MICRON RATINGS	PRESSURE DROP (psi) @ FLOW RATE (GPM)	CHLORINE REDUCTION @ FLOW RATE (GPM)	QTY BAG	CTN	LIST PRICE-A
14-CB1-05	2-3/4" x 9-3/4"	1	5	0.95 psi @ 1.0 GPM	6,000 Gal. @ 1.0 GPM*	1	20	22.15
14-CB2-05	2-3/4" x 20"	1-2	5	0.85 psi @ 2.0 GPM	12,000 Gal. @ 2.0 GPM*	1	20	43.99
GIANT SIZE								
14-GCB1-10	4-1/2" x 10"	1-3	10	4.0 psi @ 7.0 GPM	12,000 Gal. @ 3.0 GPM**	1	8	59.84
14-GCB2-10	4-1/2" x 20"	1-7	10	4.5 psi @ 7.0 GPM	26,000 Gal. @ 7.0 GPM**	1	8	105.38

*Estimated capacity using 3ppm FAC (Free Available Chlorine) at continuous flow to 0.1ppm breakthrough.

**Estimated capacity using 2ppm FAC (Free Available Chlorine) at continuous flow with greater than 90% reduction.

ICE MAKER / NEEDLE VALVES

Needle valves available, please see Section 2



08NVHE-0402



08NVHEK-0402



08NVHSPK-0402

CARBON BRIQUETTE "CYST REMOVAL - NSF" CARTRIDGES

APPLICATION

□ Designed for highly effective filtration of water for certain Volatile Organic Chemicals (VOC's) such as toluene and xylene. Also effective for pesticides, chlorine, taste and odor and sediment reduction down to 0.5 micron, making it an excellent polishing filter or pre-filter in applications that require fine filtration. These cartridges are also excellent at filtering Giardia and Cryptosporidium cysts from potable drinking water making them ideal for potable water filtration and many industrial, commercial and food service applications.

FEATURES

- Capable of reducing 99.9% of Cryptosporidium and Giardia cysts
- Designed as a polishing filter, it is recommended that these cartridges be installed in conjunction with a pre-filter to remove sediment. Removal of sediment prior to contact with a finishing cartridge prevents the finishing cartridge from plugging prematurely due to sediment entrapment long before the maximum utilization of the carbon has been achieved

CONSTRUCTION / RATING

- Bonded powder activated carbon filter media
- Polypropylene end caps, inner / outer wraps and netting c/w Buna-N gaskets
- Temperature Range 40°F to 180°F (4.4°C to 82.2°C) (for VOC and pesticide reduction 85°F max.)

PART NO.	CARTRIDGE SIZE	FLOW GPM	MICRON RATINGS	PRESSURE DROP (psi) @ FLOW RATE (GPM)	CHLORINE REDUCTION @ FLOW RATE (GPM)	QUANTITY BAG CTN	LIST PRICE-A
14-CCR1-0.5	2-3/4" x 9-3/4"	1	0.5	1.3 psi @ 1.0 GPM	20,000 Gal. @ 1.0 GPM*	1 20	33.11
14-CCR2-0.5	2-3/4" x 20"	1 - 2.3	0.5	3.0 psi @ 2.0 GPM	45,000 Gal. @ 2.3 GPM*	1 20	62.56
GIANT SIZE							
14-GCCR1-0.5	4-1/2" x 10"	1-2	0.5	7.0 psi @ 4.0 GPM	50,000 Gal. @ 2.0 GPM*	1 8	96.63
14-GCCR2-0.5	4-1/2" x 20"	1-7	0.5	8.5 psi @ 4.0 GPM	150,000 Gal. @ 7.0 GPM*	1 8	208.04

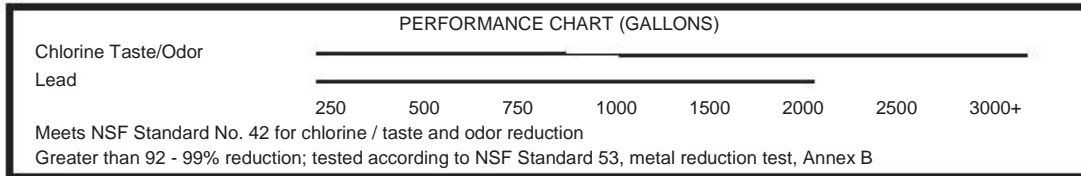
*Estimated capacity using 2ppm FAC (Free Available Chlorine) at continuous flow with greater than 90% reduction.



CARBON BRIQUETTE / MULTIMEDIA CARTRIDGES

APPLICATION

□ For pre- and post- R.O. (reverse osmosis) filtration, taste and odor reduction for potable water in residential drinking water systems, commercial water coolers in schools, offices and factories. Also can be used in small laser cooling systems and Deionization Regeneration Systems (DI) recirculating systems. Designed to perform several functions in a single cartridge. At the heart of the cartridge is carbon briquette formed from powder activated carbon (PAC) combined with a specially designed media for lead reduction. In addition to lead reduction, the unique formation of the carbon briquette enables it to reduce fine sediment particles down to 0.5 micron, including giardia and cryptosporidium cysts. As with our standard CCR series carbon briquette, the CCLR is more effective at reducing levels of chlorine and certain organics than activated carbon (GAC) cartridges.



FEATURES

- Lead reduction through 2000 gallons
- Highly effective chlorine reduction through more than 3000 gallons
- Greater than 99.95% reduction of Cryptosporidium and Giardia cysts**

CONSTRUCTION / RATING

- Bonded powder activated carbon filter media
- Manufactured from NSF listed components
- Temperature Range 40°F to 100°F (4.4° to 38°C)

**Giardia and Cryptosporidium cyst claim based on actual tests showing greater than 99.95% reduction of live Cryptosporidium parvum oocysts which are smaller than Giardia cysts. Tested according to US-EPA "GuideStandard and Protocol for Testing Microbiological Purifiers" by University of South Florida Dept. of Marine Science.

PART NO.	CARTRIDGE SIZE	FLOW GPM	WEIGHT	MICRON RATING	QUANTITY BAG CTN	LIST PRICE - A
14-CCLR1-0.5	2-3/4" x 9-3/4"	1	1.04 Lbs	0.5	1 20	40.96



ICEMAKER WATER FILTERS

PART NO.	DESCRIPTION	FLOW GPM	QTY	LIST PRICE- A
14-IMC-NF	Filter only 1/4" FPT inlet / outlet connections - no fittings included	0.75	48	20.55

TASTE / ODOR & SCALE INHIBITOR FILTERS

Designed to eliminate the taste and odor problems often associated with tap water. Undesirable tastes and odors are quickly absorbed into a bed of granular activated carbon as the water flows through. The scale inhibiting properties of this filter aid in preventing hard scale build-up and corrosion in appliances such as humidifiers, automatic watering devices, small hot water units, automatic coffee makers and icemakers

PART NO.	DESCRIPTION	FLOW GPM	QTY	LIST PRICE-A
14-TOS-NF	Filter only 1/4" FPT inlet / outlet connections - no fittings included	0.75	48	27.63