



# SECTION 4

## WATER FILTRATION & DISINFECTION



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# Filter Housings & Kits



## Harvard Series Housing Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene (polycarbonate for clear).
- Available in slim and large diameter styles.
- 10" and 20" lengths.
- Blue and clear sumps.
- 3/4" inlet/outlets on slimline, 1" inlet/outlets on large diameter.
- All housings have a pressure relief button.
- Patented double EPDM o-ring seals on slimline assures long term seal. Single o-ring seal on large diameter.
- Maximum temperature rating to 125 °F and pressure rating to 125 psi.
- Recommended maximum operating pressure 85 psi for slim style and 90 psi for large diameter.
- Filter housings are bulk packed. Cartridges available separately.



**WARNING:** Prevent Freezing. Never exceed recommended maximum operating pressures. Use proper pressure reducing valves to protect filter housings from excessive pressure surges.

**DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.**

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty	List Price
<b>SLIM STYLE Housings with pressure relief for 2 1/2" OD cartridges</b>							
HH75BSLBP	Slim	Blue	Black	3/4"	10"	12	\$ 21.58
HH75BSLBP20	Slim	Blue	Black	3/4"	20"	8	80.18
HH75CSLWP	Slim	Clear	Black	3/4"	10"	12	28.43
<b>LARGE DIAMETER STYLE Housings with pressure relief for 4 1/2" O.D. cartridges</b>							
HHL10BP	Lg. Diam	Blue	Black	1"	10"	6	85.36
HHL10BP20	Lg. Diam	Blue	Black	1"	20"	6	148.21
HHL10CP	Lg. Diam	Clear	Black	1"	10"	6	110.54



## Filter Housing Kit Features:

- Slim and Large diameter styles.
- Complete with full size white, powder coated steel mounting bracket, stainless steel screws, sump removal wrench and extra o-ring. (2 o-rings for slim, 1 o-ring for large diameter.)
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

Part Number	Style	Sump	Head	Inlet/Outlet	Length	Case Qty	List Price
HFHP75BSLBP	Slim	Blue	Black	3/4"	10"	12	\$ 32.27
HFHP75BSLBP20	Slim	Blue	Black	3/4"	20"	8	80.36
HFHP75CSLWP	Slim	Clear	Black	3/4"	10"	12	34.82
HFHPLD10BP	Large Dia	Blue	Black	1"	10"	6	112.67
HFHPLD10BP20	Large Dia	Blue	Black	1"	20"	6	178.39
HFHPLD10CP	Large Dia	Clear	Black	1"	10"	6	133.31



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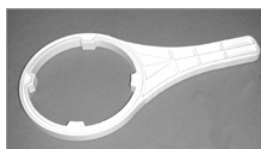
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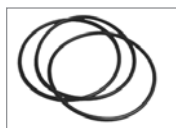
# Filter Housing Accessories



HS-BA Series



HW Series



HOR Series



HH Series



HH SUMP Series

Part Number	Fits Style	Material	Color	Ctn Qty	List Price
<b>Mounting Brackets for Harvard Series Filter Housings</b>					
<b>Includes stainless steel head and wall mounting screws</b>					
HS10BA	Slim (L)	Powder coated steel	White		\$ 9.10
HS25BA	Large Diam. (L)	Powder coated steel	White		48.94
<b>Wrenches for Harvard Series Filter Housing sump removal</b>					
HWSL	Slim	Polypropylene	White		2.57
HWLD	Large Diam.	Polypropylene	White		8.26
<b>O-rings for Harvard Series Filter Housings</b>					
HOR4	Slim	EPDM			0.67
HOR5	Large Diam.	EPDM			4.21
<b>Replacement Heads w/ pressure relief Harvard Series Filter Housings</b>					
HH75HEAD	Slim		Black	1	6.23
HHLHEAD	Large Diam.		Black	1	37.35
<b>Replacement Sumps for Harvard Series Filter Housings</b>					
HH75SUMPBL	Slim		Blue	1	13.42
HH75SUMPCL	Slim		Clear	1	15.56
HHLDSUMPBL	Large Diameter		Blue	1	44.61
HHLDSUMPBL20	Large Diameter (20")		Blue	1	91.44
HHLDSUMPCL	Large Diameter		Clear	1	68.54



# Economy Filter Housings & Kits



EH Series

## EH Series Economy Housing Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene.
- Available in slim, standard and large diameter styles, 10" and 20" lengths.
- Opaque and clear sumps with EPDM o-ring seals.
- 3/8" - 1 1/2" inlet/outlets. VIH clear has stainless steel 3/4" FPT inserts.
- All housings have a pressure relief button.
- Rated for temperature to 125° F and pressures to 125 psi.
- Filter housings are bulk packed. Cartridges available separately.



**DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.**

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty	List Price
<b>SLIM STYLE Housings with pressure relief for 2 1/2" OD cartridges</b>							
EH38BSLBP	Slim	Blue	Black	3/8"	10"	12	\$ 26.72
EH38CSLWP	Slim	Clear	White	3/8"	10"	12	35.52
EH50BSLBP	Slim	Blue	Black	1/2"	10"	12	24.96
EH50CSLWP	Slim	Clear	White	1/2"	10"	12	36.13
EH75BSLBP	Slim	Blue	Black	3/4"	10"	12	27.50
EH75CSLWP	Slim	Clear	White	3/4"	10"	12	36.00
<b>Valve-in-Head SLIM STYLE Housings for 2 1/2" OD cartridges (allows by-pass during cartridge replacement)</b>							
EH75VCP	Slim VIH	Clear	White	3/4" SS FPT	10"	12	86.07
<b>STANDARD STYLE Housings with pressure relief for 2 1/2" OD cartridges</b>							
EH75BP	Standard	Blue	Black	3/4"	10"	12	50.54
EH75CP	Standard	Clear	Black	3/4"	10"	12	57.87
EH75B20P	Standard	Blue	Black	3/4"	20"	12	83.98
EH75C20P	Standard	Clear	Black	3/4"	20"	12	126.59
<b>LARGE DIAMETER STYLE Housings with pressure relief for 4 1/2" O.D. cartridges</b>							
EHL75BP	Lg. Diam	Blue	Black	3/4"	10"	4	94.78
EHL10BP	Lg. Diam	Blue	Black	1"	10"	4	95.93
EHL10CP	Lg. Diam	Clear	Black	1"	10"	4	172.81
EHL15BP	Lg. Diam	Blue	Black	1 1/2"	10"	4	96.08
EHL75B20P	Lg. Diam	Blue	Black	3/4"	20"	4	137.60
EHL10B20P	Lg. Diam	Blue	Black	1"	20"	4	140.26
EHL15B20P	Lg. Diam	Blue	Black	1 1/2"	20"	4	139.55



EFHP Series

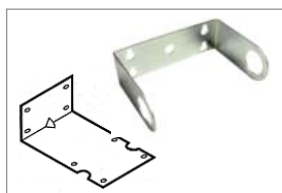


## Filter Housing Kit Features:

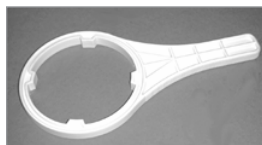
- Slim, VIH, Standard and Large diameter styles.
- Complete with mounting bracket (with stainless steel screws) and sump removal wrench.
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

Part Number	Style	Sump	Inlet/Outlet	Length	Bracket	Case Qty	List Price
EFHP75BSLBP	Slim	Blue	3/4"	10"	YES	6	\$ 40.53
EFHP75CSLWP	Slim	Clear	3/4"	10"	YES	6	50.65
EFHP75VCP	Slim VIH	Clear	3/4" SS	10"	YES	6	102.80
EFHP75BP	Standard	Blue	3/4"	10"	YES	4	65.78
EFHP75CP	Standard	Clear	3/4"	10"	YES	4	72.54
EFHPLD75BP	Large Dia	Blue	3/4"	10"	YES	1	152.03
EFHPLD10BP	Large Dia	Blue	1"	10"	YES	1	143.42
EFHPLD15BP	Large Dia	Blue	1 1/2"	10"	YES	1	143.42

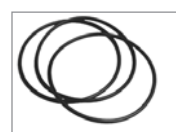
# Economy Filter Accessories



ES-BA Series



EW Series



EOR Series

Part Number	Fits Style	Material	Color	Ctn Qty	List Price
<b>Mounting Brackets for EH Series Filter Housings</b>					
<b>Includes stainless steel head and wall mounting screws</b>					
ES10BA	EH Slim (L)	Aluminum	White		\$ 6.75
ES15BA	EH Valve in Head (U)	Aluminum	--		11.30
ES20BA	EH Standard (L)	Aluminum	White		13.68
ES25BA	EH Large Diam. (L)	Aluminum	---		61.02
<b>Wrenches for EH Series Filter Housing sump removal</b>					
EWSL	Slim	Polypropylene	White		4.01
EWSTND	Standard	Polypropylene	White		3.86
EWLD	Large Diam.	Polypropylene	Black		9.64
<b>O-rings for EH Series Filter Housings</b>					
EOR4	Slim	EPDM			2.19
EOR-VIH	Slim VIH	EPDM			2.18
EOR8	Standard	EPDM			3.30
EOR5	Large Diam.	EPDM			5.87



EFRVM75



## RV & Marine Water Filter Features:

- Long life exterior inline water filter effectively reduces chlorine, tastes and odors, sediment, volatile organic chemicals and inhibits bacterial growth.
- Working pressure: 20-125 psi
- Maximum flow rate: 2.5 gpm.
- Temperature range: 40-100 °F
- Ideal for RV, boats and camping.
- Uses KDF/GAC media to control microorganisms while reducing lime and scale buildup.
- Includes connector hose (3/4" MGHT x 3/4" FGHT).

Part Number	Description	Ctn Qty	List Price
EFRVM75	RV/Marine Inline Water Filter Kit (hose & cart in box)	1	\$ 49.88
FP12NK	Connector Hose	1	22.32
FP12GE	Inline GAC Cartridge	1	26.73



EIC100



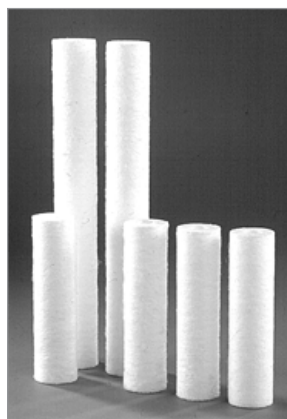
## Inline Ice Maker Carbon Filter Features:

- NSF listed.
- Granular activated carbon medium.
- Removes chlorine, taste and odor from water
- Ideal for refrigerator ice makers, water dispensers and coffee makers.
- Furnished with or without 1/4" fittings.

Part Number	OD	Length	Fits Pipes	Pipe Ftgs	Ctn Qty	List Price
EIC100	2"	10"	1/4" FPT	NO	25	\$ 14.26
EIC100JG	2"	10"	1/4" plastic or copper tubing	1/4" John Guest	25	19.74



# Economy Filter Cartridges



EFP Series



ANSI / NSF  
STANDARD 42  
COMPONENT  
CERTIFIED



## EFP Series Melt Blown Polypropylene Filter Cartridge Features:

- Melt blown polypropylene for purity and chemical compatibility.
- Ideal for aggressive chemicals and general sediment filtration when depth filtration is required.
- Max Flow rate 2-8 gpm based on micron.
- Contains no binders, agents, solvents, antistatic materials or wetting agents.
- Meets FDA requirements for food and beverage contact.
- No leachables or extractables to contaminate.
- No surface binders to reduce flow & increase change-out frequency.
- Rated for temperatures up to 140° F
- Shrink wrapped for purity.

Part Number	Micron	O.D.	Length	Ctn Qty	List Price
<b>MELT BLOWN POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings</b>					
EFP1	1	2 1/2"	9 7/8"	48	\$ 5.30
EFP5	5	2 1/2"	9 7/8"	48	4.32
EFP20	20	2 1/2"	9 7/8"	48	4.32
EFP50	50	2 1/2"	9 7/8"	48	4.32
EFP1-20	1	2 1/2"	20"	24	8.77
EFP5-20	5	2 1/2"	20"	24	9.53
EFP20-20	20	2 1/2"	20"	24	8.74
EFP50-20	50	2 1/2"	20"	24	9.53
<b>MELT BLOWN POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings</b>					
EFPBB1	1	4 1/2"	9 3/4"	24	32.72
EFPBB5	5	4 1/2"	9 3/4"	24	27.60
EFPBB20	20	4 1/2"	9 3/4"	24	27.60
EFPBB50	50	4 1/2"	9 3/4"	24	27.60
EFPBB1-20	1	4 1/2"	20"	12	72.08
EFPBB5-20	5	4 1/2"	20"	12	50.37
EFPBB20-20	20	4 1/2"	20"	12	53.95
EFPBB50-20	50	4 1/2"	20"	12	50.28



EFP\_G Series

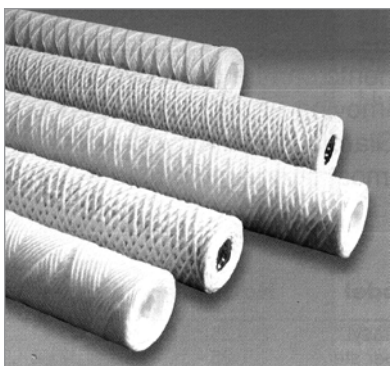
## EFP-G Series Grooved Melt Blown Polypropylene Filter Cartridge Features:

- Grooved cartridges for increased surface area and greater dirt handling capacity.
- Melt blown polypropylene.
- Maximum temperatures 140° F
- Maximum pressure: 40 psid
- Recommended change out 30 psid.
- Maximum flow rate 2-8 gpm based on micron.
- Shrink wrapped for purity.
- Fits slim and standard style housings.



Part Number	Micron	OD	Length	Ctn Qty	List Price
EFP5G	5	2 1/2"	9 3/4"	48	\$ 6.02
EFP20G	20	2 1/2"	9 3/4"	48	6.02
EFP1G-20	1	2 1/2"	20"	24	18.03
EFP5G-20	5	2 1/2"	20"	24	12.15

# Economy Filter Cartridges



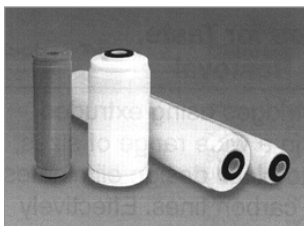
EFWP Series

## EFW Series Wound Filter Cartridge Features:

- Excellent depth filtration.
- FDA grade polypropylene fibers.
- Polypropylene center tubes.
- For temperatures to 140 F.
- Individually wrapped.



Part Number	Medium	Type of Construct	Micron	O.D.	Length	Ctn Qty	List Price
<b>WOUND POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings</b>							
EFWP1	Polypropylene	Wound	1	2 1/2"	9 7/8"	30	\$ 9.34
EFWP5	Polypropylene	Wound	5	2 1/2"	9 7/8"	30	9.06
EFWP10	Polypropylene	Wound	10	2 1/2"	9 7/8"	30	9.58
EFWP20	Polypropylene	Wound	20	2 1/2"	9 7/8"	30	9.06
EFWP30	Polypropylene	Wound	30	2 1/2"	9 7/8"	30	9.41
EFWP50	Polypropylene	Wound	50	2 1/2"	9 7/8"	30	8.91
EFWP1-20	Polypropylene	Wound	1	2 1/2"	20"	15	18.80
EFWP5-20	Polypropylene	Wound	5	2 1/2"	20"	15	18.22
EFWP10-20	Polypropylene	Wound	10	2 1/2"	20"	15	19.13
EFWP20-20	Polypropylene	Wound	20	2 1/2"	20"	15	11.79
EFWP30-20	Polypropylene	Wound	30	2 1/2"	20"	15	18.80
EFWP50-20	Polypropylene	Wound	50	2 1/2"	20"	15	11.79
<b>WOUND POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings</b>							
EFWPBB1	Polypropylene	Wound	1	4 1/2"	9 3/4"	8	\$ 31.60
EFWPBB5	Polypropylene	Wound	5	4 1/2"	9 3/4"	8	30.94
EFWPBB20	Polypropylene	Wound	20	4 1/2"	9 3/4"	8	30.70
EFWPBB50	Polypropylene	Wound	50	4 1/2"	9 3/4"	8	29.98
EFWPBB1-20	Polypropylene	Wound	1	4 1/2"	20"	4	63.52
EFWPBB5-20	Polypropylene	Wound	5	4 1/2"	20"	4	61.23
EFWPBB20-20	Polypropylene	Wound	20	4 1/2"	20"	4	61.80
EFWPBB50-20	Polypropylene	Wound	50	4 1/2"	20"	4	59.73



EFGAC Series

## EFGAC Series Granulated Activated Carbon Filter Cartridge Features:

- For removal of taste, odor, organic chemicals and chlorine.
- 5 micron

Part Number	Fits Housing Style	O.D.	Length	Ctn Qty	List Price
EFGAC10	Slim, Standard	2 1/2"	9 3/4"	24	\$ 15.95
EFGAC20	Slim, Standard	2 1/2"	20"	24	35.99
EFGACBB	Large Diameter	4 1/2"	9 3/4"	8	48.49
EFGACBB20	Large Diameter	4 1/2"	20"	4	81.09





# Economy Filter Cartridges



EFSP Series



## EFSP Series Pleated Filter Cartridge Features:

- Pleated cartridges provide increased surface area, lower pressure drop and longer service life than other cartridges.
- Cellulose-free, 100% synthetic media is washable and reusable, 5 micron and up, to reduce filter costs.
- Contains no binders or additives to breakdown which may cause foaming and filter degradation.
- Color coded end caps 2 3/4" OD.
- Individually wrapped for purity.

## Specifications:

Maximum temperature	140° F
Minimum temperature	40° F
Maximum pressure	40 psid
Recommended change out	25 psid
Filter Media (1 & 5 micron)	Polypropylene
Filter Media (20 & 50 micron)	Polyester
Material - center tube	Polypropylene
Material - end caps	Molded Polyurethane
ID	1 1/6"

Part Number	Micron	End Cap Color	O.D.	Length	Ctn Qty	List Price
<b>PLEATED Filter cartridges for STANDARD style housings</b>						
EFSP1	1	Tan	2 3/4"	9 3/4"	50	\$ 12.02
EFSP5	5	White	2 3/4"	9 3/4"	50	10.92
EFSP20	20	Blue	2 3/4"	9 3/4"	50	8.74
EFSP50	50	Yellow	2 3/4"	9 3/4"	50	8.74
EFSP1-20	1	Tan	2 3/4"	20"	25	31.39
EFSP5-20	5	White	2 3/4"	20"	25	21.87
EFSP20-20	20	Blue	2 3/4"	20"	25	19.69
EFSP50-20	50	Yellow	2 3/4"	20"	25	19.69
<b>PLEATED Filter cartridges for LARGE DIAMETER style housings</b>						
EFSPBB1	1	Blue	4 1/2"	9 3/4"	18	37.11
EFSPBB5	5	Blue	4 1/2"	9 3/4"	18	28.43
EFSPBB20	20	Blue	4 1/2"	9 3/4"	18	24.06
EFSPBB50	50	Blue	4 1/2"	9 3/4"	18	24.06
EFSPBB1-20	1	Blue	4 1/2"	20"	9	63.41
EFSPBB5-20	5	Blue	4 1/2"	20"	9	54.67
EFSPBB20-20	20	Blue	4 1/2"	20"	9	43.75
EFSPBB50-20	50	Blue	4 1/2"	20"	9	43.75





# Big-Bubba Filter Housings



## Big-Bubba® High Flow Non-Metallic Filter Housing Features:

Big-Bubba® high flow filters are bigger and better than other non-metallic filter housings because of their economical plastic construction, while pressure rating is nearly equal to stainless steel.

### Features:

- Made of glass-reinforced polypropylene for greater strength and chemical resistance.
- Will not dent, rust, chip or corrode.
- Filters accept a single cartridge for convenience.
- Swing-bolt lid closure is easy, safe and secure.
- Pressure release for safety.
- Cartridge “lock” adapter to hold cartridge in place.
- Double o-rings on cartridges for superior sealing.
- Two outlets on opposite sides to allow more flexibility with piping configurations.

### Typical Applications:

- Whole house filtration for chlorine, taste, odor and sediment reduction.
- Industrial applications for chemical compatability.
- Pre-filtration for reverse osmosis.
- Community water systems for cyst reduction.
- Sea water filtration for non corrosion.

### Specifications:

Materials	
Body, cartridge end caps	Glass reinforced PP
Swing Bolts	304SS
O-Ring (lid)	EPDM
Lid closure	
Pipe Fittings (2 inlet, 1 outlet)	2" slip
Overall height	40"
Width(vessel OD)	12"
Maximum Flow Rate	150 gpm *
Maximum temperature (housing)	175° F
Maximum working pressure	125 psi
Burst test	300 psi
Cycle test (0 to 150 psi)	100,000

\* Dependent on micron rating (see pressure drop chart)

### Parallel Installation



Parallel installations are recommended to achieve high flow rates, by installing filters on a common manifold, feeding all filters installed in a row.

### Series Installation



Series installations are recommended for applications such as surface water filtration, where cartridges having different micron ratings are used.



Certified to  
ANSI-NSF 61



Part No.	Description	Max Flow Rate	Pipe Fitting	List Price
BBH150	Big-Bubba Housing	150 gpm	2" slip	\$ 2,239.34



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FALL 2016

# Big Bubba Filter Cartridges



BBC-P Series



BBC-D Series



BBC-AC Series

## Big-Bubba® High Flow Filter Cartridge Features:

Replacement cartridges for Big-Bubba filters, all with double o-ring seals for superior performance. Cartridges are easy to install, service and replace.

### Pleated:

- Pleated cartridges are recommended for typical water filtration applications to remove sediment, hard solids and when high efficiency filtration is required. Available in a wide range of micron ratings, including one micron absolute for surface water filtration to reduce Giardia Cycts and Cryptosporidium.

### Depth:

- Select depth cartridges to remove sediment, gelatinous substances and when chemical compatibility is an issue. Big-Bubba melt blown depth cartridges are 100% polypropylene with EPDM o-rings.

### Activated Carbon Cartridges:

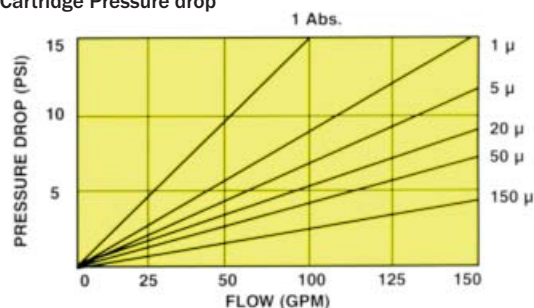
- Ideal for whole house filtration and other applications to reduce chlorine, tastes, odors and sediment from water. Rated at 5 micron.

## Specifications:

	PLEATED	DEPTH
Media	PP	PP
End Caps	PP & FG	PP & FG
Center Tubes	PP	PP
Maximum Flow Rate*	150 gpm	100 gpm
Maximum temperature	175° F	175° F
Maximum Chg pressure (psi)	30	40
Chemical Resistance	Excellent	Excellent
Length (media)	26 1/4"	26 1/4"
O-rings (dual)	EPDM	EPDM

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

PLEATED Cartridge Pressure drop



Part Number	Micron	Media Type	Seals	Ctn Qty	List Price
<b>PLEATED</b>					
BBC-150-P1A	1 absolute	Polypropylene 5 ply	Double O-rings	1	\$ 578.66
BBC-150-P1	1	Polypropylene	Double O-rings	1	549.60
BBC-150-P5	5	Polypropylene	Double O-rings	1	528.92
BBC-150-P20	20	Polypropylene	Double O-rings	1	536.61
BBC-150-P50	50	Polypropylene	Double O-rings	1	450.25
<b>DEPTH</b>					
BBC-150-D1	1	Polypropylene	Double O-rings	1	242.96
BBC-150-D5	5	Polypropylene	Double O-rings	1	200.40
BBC-150-D20	20	Polypropylene	Double O-rings	1	150.68
BBC-150-D50	50	Polypropylene	Double O-rings	1	209.45
<b>ACTIVATED CARBON</b>					
BBC-150-AC	5 nominal	Activated carbon	Double O-rings	1	851.26



# Residential Reverse Osmosis Systems



HROK4



HROK5



## HROK Systems Include:

- NSF listed John Guest style quick connect fittings.
- Filter housings made from NSF listed materials.
- NSF Standard 58, CE listed polypropylene tank. (10" diam x 15" high)
- 5 micron sediment pre-filter cartridge.
- Activated GAC granular carbon cartridge (5 stage)
- Activated carbon block cartridge.
- NSF listed Dow/Filmtec thin film membrane. 50 gpd (4 stage) 75 gpd (5 stage).
- Inline post carbon polishing cartridge.
- Automatic shutoff valve made with NSF materials.
- Long reach, lead free chrome faucet, meets California AB1953.
- Sump wrench, tubing, service valve, check valve, ball valves, flow restrictor included.
- Complete installation instructions.
- 5 stage with booster pump for sink water pressure lower than 40 psi.
- Booster pump rated to 125 psi with 110V/60 Hz, 24VDC power.

Note: For cold water use only. Do not install on hot water line. To insure that the membrane is functioning properly, the product water must be tested regularly.

## HARVARD Residential Reverse Osmosis System Features:



- Pre-assembled, easy to install 4 or 5 stage RO system.
- Complete with all installation accessories and instructions.
- High rejection, thin film membrane up to 98% efficient with 50 gal/day (4 stage) or 75 gal/day (5 stage) capacity. (Note: Feed water requirements below)
- NSF Standard 58 listed, CE certified, polypropylene tank rated to 100 psi.
- All fittings, tubing, housings, valves, cartridges and membranes are NSF listed or made from NSF listed materials.
- Automatic shut-off valve made from NSF listed materials.
- Lead free, long reach chrome faucet included. Meets California AB1953 requirements.
- Cartridges, valves, fittings, sump wrench, white mounting bracket and complete installation instructions included.

## Feed Water Requirements:

- Maximum TDS: 2,000 ppm
- Maximum Iron: 0.3 ppm
- Maximum hardness: 12 gpg
- Temperature: 45-100 °F
- Maximum hydrogen sulfate: 0
- Maximum manganese: 0.05 ppm
- Pressure: 40-85 psi (min/max)
- pH: 4-10

## The Benefits (nominal ion rejection characteristics)\*

Aluminum	96-98%	Manganese	96-98%
Ammonium	80-90%	Mercury	94-97%
Borate	30-50%	Nickel	96-98%
Boron	50-70%	Nitrate	90-95%
Bromide	90-95%	Orthophosphate	96-98%
Cadmium	93-97%	Phosphate	95-98%
Calcium	93-98%	Polyphosphate	96-98%
Chloride	92-95%	Potassium	92-96%
Chromate	85-95%	Radioactivity	93-97%
Copper	96-98%	Silica	80-90%
Cyanide	85-95%	Silicate	92-95%
Fluoride	92-95%	Silver	93-96%
Hardnes Ca & Mg	93-97%	Sodium	92-98%
Iron	96-98%	Sulfate	96-98%
Lead	95-98%	Thiosulfate	96-98%
Magnesium	93-98%	Zinc	96-98%

\* The above percent rejection is for reference only. Actual rejection will depend heavily on the exact chemistry, temperature, pressure & TDS content of the feed water.

Part No.	Description	List Price
HROK4	4 stage RO system, 50 gpd	\$ 391.61
HROK5	5 stage RO system, 75 gpd	446.61
HROK5BP	5 stage RO system, 75 gpd w/ booster pump	610.54
HROK4MEM50	Dow/Filmtec TFC membrane 50 gpd	97.21
HROK5MEM75	Dow/Filmtec TFC membrane 75 gpd	147.50
HROKTANK32	3.2 gal plastic tank, NSF58/CE	100.04
HROKASV	Auto shutoff valve	10.19



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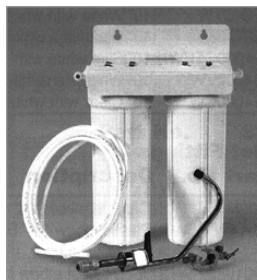
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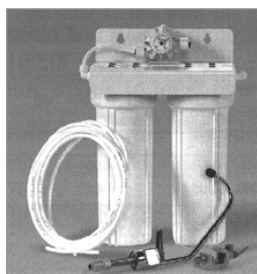
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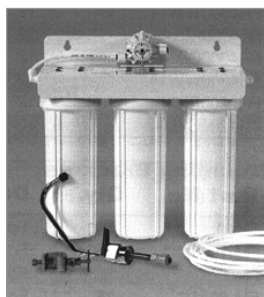
# Economy Drinking Water Systems



DWS2



DWS2M



DWS3M

## Economy Drinking Water System Features:

- Pre-assembled, easy to install.
- Complete with all installation accessories and instructions.
- Carbon and sediment filter cartridges sold separately.
- Select the appropriate carbon cartridge to reduce taste and odor, chlorine, giardia, cryptosporidium, VOC's, lead and mercury.

## DWS Series Includes:

- NSF listed housings
- NSF listed John Guest fittings.
- NSF listed tubing.
- Lead free, long reach chrome faucets. Meets State of California requirements.
- WQA validated, 1800 gallon, patented automatic shut-off valve made from NSF listed materials. (DWS-M Series only)
- White aluminum bracket with stainless steel mounting screws.
- Saddle valve.
- Carbon filter cartridges **NOT** included.



Part No.	Description	List Price
DWS2	2 Stage system (no Auto shut-off)	\$ 183.68
DWS2M	2 Stage system w/ Auto shut-off	238.38
DWS3M	3 Stage system w/ Auto shut-off	298.58

Available Carbon Filter Cartridges  
See page 4.13-14 for description and list prices.



Series	PFC	PFGAC	PFCEP	PFCC	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	N/A	1 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes	Yes
Cyst Reduction <i>Giardia &amp; Cryptosporidium</i>	No	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes	Yes
Lead & Mercury	No	No	No	No	No	Yes



# Filter Housings

## Styles:

- Standard
- Slim Line™
- Valve-in-Head
- High Temperature
- Big Blue®

## Materials:

- Opaque - Reinforced Polypropylene
- Clear - FDA Styrene-Acrylonitrile (SAN)

## Applications:

- Residential/Whole house, Commercial/Industrial, Institutional, OEM



ISO 9001



**DO NOT over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape OR non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - NOT BOTH.**



PFH75B



PFH75C

## Standard Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/4" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Equipped with pressure relief button on the inlet side of the head.
- NPsuffix - no pressure relief button.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75B	Standard	Blue	Black	3/4" NPT	12 1/4"	5 1/8"	12	\$ 55.41
PFH75C	Standard	Clear	Black	3/4" NPT	12 1/4"	5 1/8"	12	76.71
PFH75B20	Standard	Blue	Black	3/4" NPT	22 3/8"	5 1/8"	8	100.22



PFH38SLC5



PFH38SLC

## Slim Line™ Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/8" NPT inlet/outlet.
- Available in 5" and 10" lengths.
- Equipped with pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH38SLB5	Slimline	Blue	Black	3/8" NPT	7"	4 3/8"	12	\$ 43.44
PFH38SLC5	Slimline	Clear	Blue	3/8" NPT	7"	4 3/8"	12	66.10
PFH38SLB	Slimline	Blue	Black	3/8" NPT	11 3/4"	4 3/8"	12	31.26
PFH38SLC	Slimline	Clear	Blue	3/8" NPT	11 3/4"	4 3/8"	12	46.88



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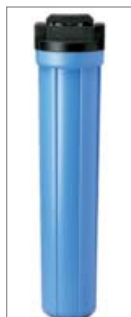
# Filter Housings



**DO NOT** over tighten fittings used to install filter housing. Over tightening will result in cracking the housing threads and will void all limited warranties. Only PTFE thread seal tape **OR** non-PTFE based thread seal paste approved for plastic threads should be used to seal filter housing threads - **NOT BOTH**.



ISO 9001



PFH75VB20

## Valve-in-Head Housing Features:

- Valve-in-Head (VIH) feature closed both the inlet and outlet ports simultaneously with a half turn of the handle.
- Makes cartridge change outs quick and easy.
- Available in 5", 10" and 20" lengths.
- Can be equipped with an optional pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75VB	VIH	Blue	Black w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12	\$ 100.15
PFH75VC	VIH	Clear	Blue w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12	107.80
PFH75VB20	VIH	Blue	Black w/ VIH	3/4" NPT	22 3/8"	5 1/8"	8	144.45



PFH75HR

## High Temperature Housing Features:

- Low cost alternative to stainless and carbon steel housings.
- Durable glass reinforced nylon construction.
- Available with 1/2" and 3/4" NPT inlet/outlet
- Maximum temperature rating of 160° F.
- Maximum operating pressure 125 PSI.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75HR	High Temp	Black	Black	3/4" NPT	12 1/8"	5 1/8"	12	\$ 281.39



Big Blue

## Big Blue® Large Diameter Housing Features:

- Large capacity housing designed for whole house and high-flow applications.
- Available with 3/4", 1" or 1 1/2" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Equipped with a pressure relief button on the inlet side of the head.
- Accepts large capacity 4 1/2" diameter cartridges.
- Maximum operating pressure 100PSI @ 100° F
- PFHD10 and PFHD15 packed in white box with a spanner wrench.
- Bulk packed without spanner wrench

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
CPFHD75	Big Blue®	Blue	Black	3/4" NPT	13 1/8"	7 1/4"	6	\$ 88.84
CPFHD75BB	Big Blue®	Blue	Black	3/4" NPT	23 3/8"	7 1/4"	4	125.58
CPFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	6	87.16
PFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	1	119.31
PFHD10HFP20	Big Blue®	Blue	Black	1" NPT	23 3/8"	7 1/4"	4	152.51
CPFHD15	Big Blue®	Blue	Black	1 1/2" NPT	13 5/8"	7 1/4"	6	95.36
PFHD15	Big Blue®	Blue	Black	1 1/2" NPT	13 5/8"	7 1/4"	4	116.67



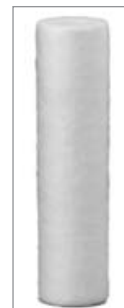
# Filter Cartridges

## Cartridge Selection Guide



ISO 9001

### SEDIMENT



Series	PFWP	PFS	PFR	PFP	PFPD
Micron Rating	5, 25, 50	20	30, 50	1, 5, 25	1, 5, 25
Avail Lengths	10"	10" & 20"	10"	10" & 20"	10" & 20"
Construction Style	String Wound	Pleated	Pleated	Spun	Therm Bonded
Medium	Polypropylene	Cellulose	Polyester	Polypropylene	Polypropylene
Filtration Style	Depth	Surface	Surface	Depth	Depth
Applications	Chlorinated & Non-Chlorinated	Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated
Avail for Big Blue	Yes	Yes	Yes	No	No

### TASTE/ODOR & SEDIMENT



Series	PFC	PFGAC	PFCEP	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	0.5 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes
Cyst Reduction	No	No	No	Yes	Yes
Giardia & Cryptosporidium	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes
Lead & Mercury	No	No	No	No	Yes
Avail for Big Blue	No	Yes	Yes	Yes	No
Est Filter Life	6 mo.	12 mo.	12 mo.	12 mo.	12 mo.



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# Filter Cartridges



## Sediment Cartridges:

- String wound
- Pleated cellulose
- Pleated polyester
- Spun polypropylene
- Thermally Bonded polypropylene



ISO 9001

## String Wound Cartridges

### PFWP & PFCW Series String Wound Polypropylene Cartridges

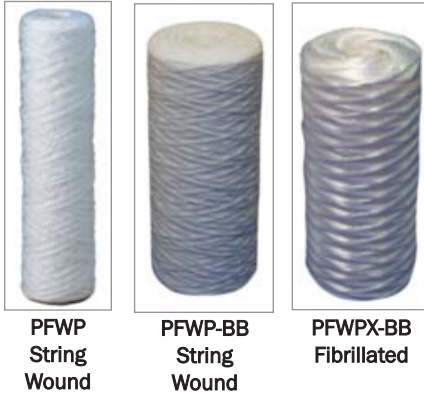
- Ideal for fine sediment reduction, including sand, silt, scale and rust.
- These cord wound cartridges are compatible with most acids, alkalies, corrosive fluids & gases.
- Precise winding pattern ensures high efficiency rate and high dirt loading capacity.
- Core material: FDA Polypropylene
- Max temperature: 180° F
- General purpose filtration.

### PFWP-BB Series String Wound Polypropylene Cartridges

- Constructed of fibrous polypropylene over polypropylene core.
- Note: An antistatic agent has been used in the processing of the fibrous polypropylene and may cause some foaming in water.

### PFWPX-BB String Wound Fibrillated Polypropylene Cartridges

- Constructed of fibrillated polypropylene on a polypropylene core.
- For use when pressures require minimization of exactables and/or fiber migration.



Part No.	Medium	Type of Construction	Micron Opening	GPM	Length	Ctn Qty	List Price
<b>Standard Housings 2 3/8" diameter</b>							
PFWP1	Polypropylene	Wound	1	5	9-7/8"	30	\$ 5.46
PFWP5	Polypropylene	Wound	5	5	9-7/8"	30	5.46
PFWP10	Polypropylene	Wound	10	5	9-7/8"	30	5.46
PFWP20	Polypropylene	Wound	20	5	9-7/8"	30	5.46
PFWP25	Polypropylene	Wound	25	5	9 7/8"	30	5.46
PFWP30	Polypropylene	Wound	30	5	9-7/8"	30	5.46
PFWP50	Polypropylene	Wound	50	5	9-7/8"	30	5.46
PFCWMF	Polypropylene	Wound	med. fine	10	9 7/8"	24	9.14
PFCW50	Polypropylene	Wound	50	10	9-7/8"	24	11.05
PFWP1-20	Polypropylene	Wound	1	5	20"	30	11.98
PFWP5-20	Polypropylene	Wound	5	5	20"	30	11.10
PFWP10-20	Polypropylene	Wound	10	5	20"	30	11.10
PFWP20-20	Polypropylene	Wound	20	5	20"	30	11.10
<b>Large Diameter Housings 4 1/2" diameter</b>							
PFWP.5BB97P	Polypropylene	Wound	0.5	5	9-7/8"	9	23.04
PFWP1BB97P	Polypropylene	Wound	1	5	9-7/8"	9	23.04
PFWP5BB97P	Polypropylene	Wound	5	5	9-7/8"	9	23.04
PFWP10BB97P	Polypropylene	Wound	10	5	9-7/8"	9	23.04
PFWP20BB97P	Polypropylene	Wound	20	5	9-7/8"	9	23.04
PFWP30BB97P	Polypropylene	Wound	30	5	9-7/8"	9	23.04
PFWP50BB97P	Polypropylene	Wound	50	5	9-7/8"	9	23.04
PFWP.5BB20P	Polypropylene	Wound	0.5	5	20"	9	40.32
PFWP1BB20P	Polypropylene	Wound	1	5	20"	9	40.32
PFWP5BB20P	Polypropylene	Wound	5	5	20"	9	37.32
PFWP10BB20P	Polypropylene	Wound	10	5	20"	9	37.32
PFWP20BB20P	Polypropylene	Wound	20	5	20"	9	37.32
PFWP25BB20P	Polypropylene	Wound	25	5	20"	9	37.32
PFWP50BB20P	Polypropylene	Wound	50	5	20"	9	37.32
PFWP60BB20P	Polypropylene	Wound	60	5	20"	9	38.27
PFWPX5BB97P	Fibrillated Polypropylene	Wound	5	10	9-7/8"	8	53.69
PFWPX10BB97P	Fibrillated Polypropylene	Wound	10	15	9-7/8"	8	52.91
PFWPX25BB97P	Fibrillated Polypropylene	Wound	25	20	9-7/8"	8	56.96
PFWPX50BB97P	Fibrillated Polypropylene	Wound	50	30	9-7/8"	8	51.41



# Filter Cartridges



PFS

## PFS Series Pleated Cellulose Cartridge

- Used for general water filtration purposes.
- This filter is comprised of four square feet of cellulose, providing maximum surface area and strength to prolong cartridge life.
- End caps fused to body assure an integral sealing area and prevent by-pass.
- Nominal 20 micron rating.



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Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFS1	Cellulose	Pleated	20	12	Standard	9-3/4"	24	\$ 9.40
PFS1-20	Cellulose	Pleated	20	15	Standard	20"	14	23.55
PFS1BB	Cellulose	Pleated	20	10	Big Blue	9-3/4"	8	30.14
PFS1-20BB	Cellulose	Pleated	20	12	Big Blue	20"	6	52.82



PFR

## PFR Series Pleated Polyester Cartridges

- Excellent for water well, institutional and light industrial applications.
- Four square feet of media on standard and 20 square feet of media on BB
- Pleated polyester fabric filter can be washed and resued several times.†Reuse is not recommended in potable water applications.
- Synthetic construction will not support bacteria growth.
- Available with nominal 30 and 50 micron ratings.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFR30-478	Polyester	Pleated	30	5	Compact	4-7/8	24	\$ 19.45
PFR30	Polyester	Pleated	30	12	Standard	9-3/4"	24	24.90
PFR50	Polyester	Pleated	50	12	Standard	9-3/4"	24	25.10
PFR30BB	Polyester	Pleated	30	25	Big Blue	9 3/4"	8	38.89
PFR50BB	Polyester	Pleated	50	25	Big Blue	9 3/4"	8	36.74



PFCP

## PFCP Series Pleated Cellulose Polyester Cartridges

- 6 sq. feet of media on standard and 16 sq.ft. on BB provide additional surface area and allow increased dirt holding capacity and low pressure drop
- Ideal for high flow applications.
- Cartridges are encapsulated in polyester outer sheath for added support.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFCP1	Cellulose Polyester	Pleated	1	15	Standard	9-3/4"	24	\$ 15.93
PFCP5	Cellulose Polyester	Pleated	5	15	Standard	9-3/4"	24	14.84
PFCP20	Cellulose Polyester	Pleated	20	15	Standard	9-3/4"	24	14.54
PFCP5BB	Cellulose/Poly Blend	Pleated	5	30	Big Blue	9-3/4	8	34.68



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# Filter Cartridges



## PFP Series Spun Polypropylene Fiber Cartridges

- Excellent bacteria and chemical resistance.
- Manufactured from pure 100% polypropylene.
- Fibers are carefully spun to form a cartridge w/ variable density. The density increases closer to core.
- Available in three different lengths and micron ratings

PFP



ISO 9001



Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFP5-478	Polypropylene	Spun	5	5	Compact	4-7/8"	24	\$ 8.06
PFP1	Polypropylene	Spun	1	10	Standard	9-7/8"	24	10.77
PFP5	Polypropylene	Spun	5	10	Standard	9-7/8"	24	9.41
PFP25	Polypropylene	Spun	25	10	Standard	9-7/8"	24	9.41
PFP1-20	Polypropylene	Spun	1	20	Standard	20"	20	22.46
PFP5-20	Polypropylene	Spun	5	20	Standard	20"	20	17.89
PFP25-20	Polypropylene	Spun	25	20	Standard	20"	20	18.33



## PFDGD Spun Polypropylene Dual Gradient Cartridge

- Dual gradient filter included pre and post filtration reduce large and fine particles to enhance cartridge performance.
- Eliminates need for multiple housing step-down systems
- Three times the dirt holding capacity

Part No.	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFDGD2501-10	Polypropylene	Spun	Pre 25/Post 1	10	Big Blue	10"	8	\$ 31.45
PFDGD2501-20	Polypropylene	Spun	Pre 25/Post 1	20	Big Blue	20"	6	57.67
PFDGD5005-10	Polypropylene	Spun	Pre 50/Post 5	10	Big Blue	10"	8	30.21
PFDGD5005-20	Polypropylene	Spun	Pre 50/Post 5	20	Big Blue	20"	6	55.87
PFDGD7525-10	Polypropylene	Spun	Pre 75/Post 25	10	Big Blue	10"	8	30.00
PFDGD7525-20	Polypropylene	Spun	Pre 75/Post 25	20	Big Blue	20"	6	55.11



## PFPD Series Thermally Bonded Polypropylene Cartridge

- Manufactured from pure 100% polypropylene.
- 98% efficient, more efficient than resin bonded cartridges.
- Thermal bonded micro-fiber construction.
- Withstands high temperature and pressure differentials.
- No fiber release, brittleness or growth/shrinkage due to climate conditions.
- Available in a wide range of micron ratings and lengths.

PFPD

Part No.	Medium	Type of Constructions	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFPD-10	Polypropylene	Therm Bonded	10	10	Standard	9-7/8"	24	\$ 13.55
PFPD-5	Polypropylene	Therm Bonded	5	10	Standard	9-7/8"	24	14.23
PFPD-25	Polypropylene	Therm Bonded	25	10	Standard	9-7/8"	24	12.97



# Filter Cartridges

## Taste/Odor/Sediment Cartridges:

- Carbon Impregnated
- Granular Activated Carbon (GAC)
- Carbon Block



ISO 9001



PFC1

## PFC Series Carbon Impregnated Cellulose Cartridges

- Dual purpose cartridge provides taste/odor/chlorine reduction plus sediment filtration.
- A combination of carbon and cellulose creates a dual filter used for removing fine particles and reducing unwanted tastes and odors occasionally found in tap water.
- Excellent “polishing” filter when used in process or closed loop systems.
- Design maximized dirt holding capacity.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFC2	Carbon/Cellulose	Wrap	5	2500 @ 2 gpm	Compact	4 3/4"	24	\$ 15.48
PFC1	Carbon/Cellulose	Wrap	5	5000 @ 1 gpm	Standard	9 7/8"	24	15.56
PFC1-20	Carbon/Cellulose	Wrap	5	10,000 @ 1 gpm	Standard	20"	24	39.67



PFGAC

PFCC

## PFGAC Series Granular Activated Carbon (GAC) Cartridges

- Designed to reduce or eliminate unwanted tastes and odors such as chlorine.
- Water enters the filter from the bottom and travels through the entire charcoal bed before exiting at the top. This filtration technique maximizes contact time with carbon to insure maximum absorption.
- Internal expansion pad maintains a tight compact column to minimize channeling or by-pass.
- Nominal 20 micron post filter reduces the content of carbon fines & suspended particles

## PFCC Series Granular Activated Coconut Carbon Cartridges

- Coconut Shell based activated carbon to reduce organic chemicals like EDB, TCE & THM plus chlorine.
- Nominal 20 micron post filter to reduce carbon fines and other particles.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFGAC5	Granular Carbon	Canister	N/A	750 @ .5gpm	Compact	4 7/8"	24	\$ 24.85
PFGAC10	Granular Carbon	Canister	N/A	5000 @ 1gpm	Standard	9 7/8"	12	25.96
PFGAC20	Granular Carbon	Canister	N/A	10000 @ 2gpm	Standard	20"	6	57.35
PFGACBB	Granular Carbon	Canister	N/A	12500 @ 2gpm	Big Blue	9 3/4"	8	66.64
PFGAC20BB	Granular Carbon	Canister	N/A	30000 @ 4gpm	Big Blue	20"	10	150.97
PFCC10	Granular Carbon	Canister	N/A	7500 @ 1gpm	Standard	9 3/4"	12	31.19



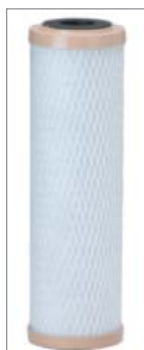
[www.americangranby.com](http://www.americangranby.com)

FALL 2016

In the United States: Phone (800) 776-2266 Fax (800) 729-3299  
In Canada: Phone (800) 268-7570 Fax (905) 629-3204

4.19

# Filter Cartridges



PFCEP



PFCBC

## PFCEP Series Carbon Block Cartridges

- Designed for post RO applications.
- Minimizes chlorine and pH rise and produces low extractables.
- Acid washed coconut formulation
- Light brown end cap



ISO 9001



## PFCBC Series Carbon Block Cartridges

- Designed to reduce VOC's, chlorine, color bodies, plus remove fine sediment from the residual, commercial & industrial liquids. Filters giardia & cryptosporidium cysts from potable water.
- High chemical adsorption provided by acid washed bituminous powdered, activated carbon block.
- Sediment filter eliminates unwanted particles down to 0.5 nominal micron.
- Excellent polishing filter or prefilter.



PFCBR

## PFCBR Series Carbon Block Multimedia Cartridge

- Removes both metals and chemicals with one cartridge.
- All purpose carbon block cartridge removes unpleasant tastes and odors plus greatly reduces the amount of dissolved heavy metals and the taste of chlorine.
- Removes lead up to 96% and mercury up to 98%.
- Also removes up to 99% of giardia and cryptosporidium cysts and sediment particles down to .5 micron in size.

Part No.	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFCEP10	Acid washed	Carbon Block	5	5000 @ 1 gpm	Standard	9 3/4"	12	\$ 47.31
PFCEP20E	Acid washed	Carbon Block	5	10000 @ 2 gpm	Standard	20"	6	90.74
PFCEPB20	Acid washed	Carbon Block	10	32000 @ 4 gpm	Big Blue	20"	6	148.78
PFCBC10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	49.73
PFCBC20	Acid washed	Carbon Block	0.5	45000 @ 1 gpm	Standard	20"	12	71.92
PFCBCBB	Acid washed	Carbon Block	0.5	50000 @ 2 gpm	Big Blue	9 3/4"	4	152.97
PFCBCBB20	Acid washed	Carbon Block	0.5	150000 @ 4 gpm	Big Blue	20"	6	265.42
PFCBR2-10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	64.06



# Filter Cartridges

## Specialty Cartridges



ISO 9001



PFRFC

### PFRFC Series Radial Flow Carbon Cartridges

- Radial flow carbon cartridge designed for gas and liquid filtration.
- Activated carbon bed and inner layers of polypropylene remove particles over nominal 7 microns.
- Removes organic and particulate contaminants from plating, acid alkaline and hydrocarbon solutions when used for liquid filtration.

Part No.	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFRFC93	Carbon/Polypropylene	Canister	NR	1-3	Standard	9 3/4"	24	\$ 59.17
PFRFCBB	Carbon/Polypropylene	Canister	25	3-10	Big Blue	9 3/4"	8	101.62
PFRFC20BB	Carbon/Polypropylene	Canister	25	5-15	Big Blue	20"	6	199.99



PFIC100



### Sealed In-Line Cartridges

- Ideal for refrigerator icemakers and water dispensers, coffee makers and other 1/4" in-line applications.
- Granular activated carbon removes chlorine, bad taste and odor from water.
- **TS100 includes phosphate crystals for clear ice cubes and to prevent line/scale build-up.**
- Connects easily to 1/4" copper or plastic cold water lines.
- Capacity of 2000 gallons, estimated life of 12 months.

Part Number	Description	Casing	Length	Ctn Qty	List Price
<b>Ice Maker Carbon Filter</b>					
PFIC100	Granular Activated Carbon	plastic	10 5/8"	6	\$ 40.36



## Housing & Cartridge Combination Kit Features:

- Each kit contains one complete housing, one cartridge and installation sheet.

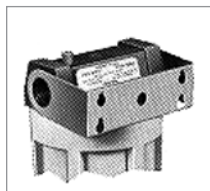
ISO 9001



Part Number	Size	Sump	Cartridge	List Price
<b>Housing &amp; Cartridge Combination Kits</b>				
PFH75C-S1	3/4" standard	transparent	general purpose/sediment	\$ 97.22
PFH75C-C1	3/4" standard	transparent	taste/odor/sediment	103.97

## "PF" Series Housing Replacement Parts:

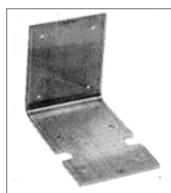
Including replacement heads, sumps, o-rings, mounting brackets and wrenches.



PFC38BL  
PFC75BL



PF75CS



PFBBS



PFBBS

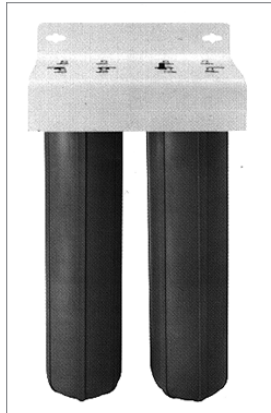
Part Number	Description	Ctn Qty	List Price
PFC38BL	Blue Head for 3/8" Housing	1	\$ 25.58
PFC75BL	Blue Head for 3/4" Housing	1	30.24
PF75CS	Clear Sump for 3/4" Housing	1	75.15
PFBBS	Big Blue Sump only	1	78.54
PFOR38	O-Ring for 3/8" Series	1	4.86
PFOR75	O-Ring for 3/4" Series	1	4.86
PFBBO	O-Ring for Big Blue	1	14.55
PFMB3814	Mounting Bracket for 3/8"	1	10.29
PFMB75	Mounting Bracket for 3/4" - U Shaped	1	16.22
PFMC1	Mounting Bracket for 3/4" caps w/ Bosses	1	16.11
PFWBBS	Mount Bracket for 1-1 1/2" Big Blue, Stainless,	1	96.08
PFCC	Standard Cartridge Coupler	1	4.14
PFCCBB	Large Diameter Cartridge Coupler	1	6.04

## Housing Wrenches

PFSW1	3/8" Black Wrench for Slimline Housing	1	10.98
PFSW2	3/4" Black Wrench for Standard Housing	1	10.98
PFSW3	Black Wrench for Large Diameter Housing	1	16.55



# Filtration Systems



BBFS22

## BBFS Filtration System Features:

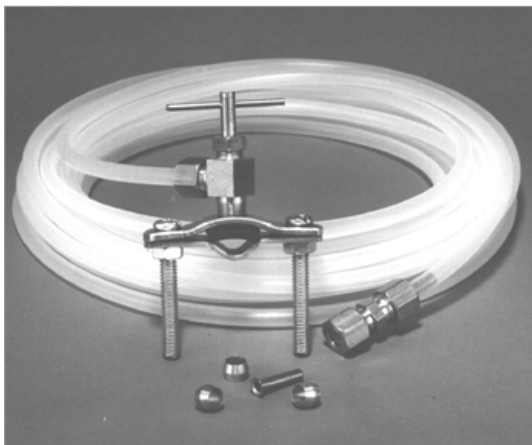
- Large capacity, multi-housing system.
- Allows for greater cartridge capacity and high flow rates.
- Consists of (2) or (3) 20" big Blue Filter housings with 1" NPT I/O mounting bracket.
- Designed for residential, commercial and industrial applications.
- System does NOT include filter cartridges.

ISO 9001



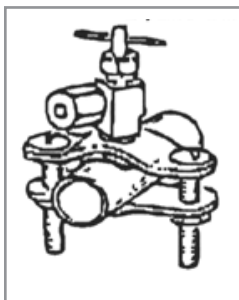
Part No.	Description	List Price
BBFS22	2 housing Big Blue System (15 1/4" x 8 1/2" x 26 1/2")	\$ 512.09
BBFS222	3 housing Big Blue System (23 1/4" x 8 1/2" x 26 1/2")	754.51

# Saddle Tap Valve/Kit and Iron Out®



## NO LEAD Brass Saddle Tap Valve & Kit Features:

- Self piercing tap valve and clamp for 3/8" to 1" OD copper tube or 3/8" to 3/4" iron pipe.
- Plastic sleeve, brass compression nut and brass or no lead brass insert (for reinforcing polyethylene tubing).
- Brass compression union for connecting polyethylene tubing to 1/4" water inlet at refrigerator, humidifier or cooler.
- 25 feet of 1/4" OD polyethylene tubing.
- The saddle tap valve eliminates plumbing connections and fittings.
- Supplies water to most humidifiers, evaporative coolers and refrigerators with automatic ice maker or water dispenser in door.
- Use for installation of Reverse Osmosis and Chemical Contaminant Filter Systems.
- For use on copper tube or iron pipe.



Part Number	Description	Ctn Qty	List Price
HTVK381NL	NO LEAD Brass Tapping Valve Kit fits 3/8" -1" OD copper tube or 3/8"-3/4" iron pipe	6	\$ 27.82
PFSTVNL	No Lead Brass Saddle Tapping Valve Only	10	8.78



## Super Iron Out

Removes the toughest rust and iron stains quickly and easily from white clothes, laundry, toilets, sinks, tubs, dishwashers, exterior surfaces and much more. Also keeps water softeners clean and operating at peak efficiency.

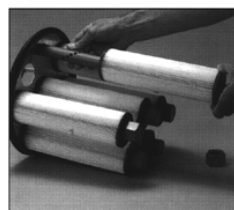
Part Number	Description	Ctn Qty	List Price
IOUT30	Iron Out, 28 oz.	6	\$ 15.55
IOUT5	Iron Out, 76 oz.	6	39.77



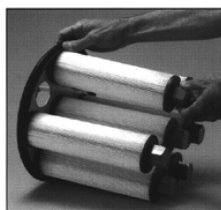
## Typical Applications:

- Drinking water
- Bottled water
- Ground Water
- Asbestos abatement
- Chill water
- Industrial
- Process water
- Beverages
- Surface water
- Plating baths
- Desalination prefilters
- Commercial
- R/O pre-filtration
- Drinking fountains
- Rinse water
- Cooling water
- Ultrafiltration
- Municipal
- Industrial waste water
- Whole house filtration
- Environmental
- Heating loops
- Spray nozzles

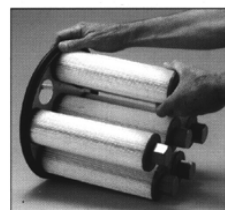
Easy Cartridge  
Installation and  
Replacement:



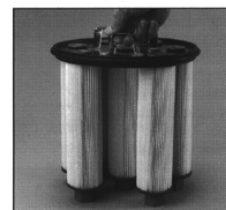
Install cartridge on holding rod.



Tighten threaded pipe cap securely.



Hold cartridge by end cap and rotate until secure.



Cartridge cluster is ready for installation.

## Harmsco™ Up Flow Cartridge Filtration . .

A design so superior it's patented!

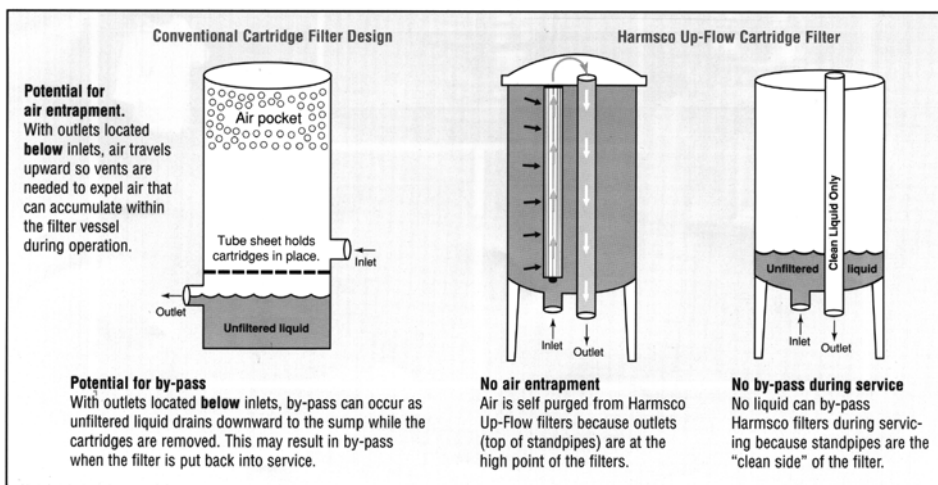
Harmsco® Up-Flow Cartridge filters outperform conventional filter designs because the outlet is located above the inlet to eliminate air entrapment during operation. With Up-Flow Filters, liquid enters the vessel through the inlet, located at the bottom of the filter. As the liquid travels upward, it flows through the media, past the top seal, separating the dirty and clean water chambers, and down the standpipe as it exits the filter. Because the top of the standpipe is located above the top seal, air is self-purged from the filter to eliminate vents and improve filtration efficiency.

## Features:

- Constructed of low carbon 304 stainless steel for durability and long life.
- All stainless steel components are electro-polished for superior finish, resistance to corrosion and increased durability.
- Individual studs for optimum security. No v-clamps with only one bolt to secure lids.
- Wing nuts are used so no tools are required. Finger tight is generally sufficient. Hex nuts are recommended with 75 ft-lbs. or torque above 100 psi.
- All filters are pressure rated to 150 PSI (10bar) and hydrostatically tested.
- Cartridges in some models are arranged in a single "cluster" for easy cartridge installation, removal and service.

## Harmsco Up-Flow Filters Outperform the Competition!

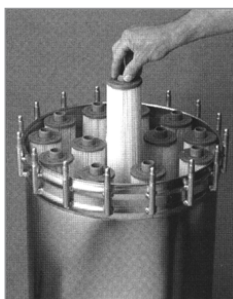
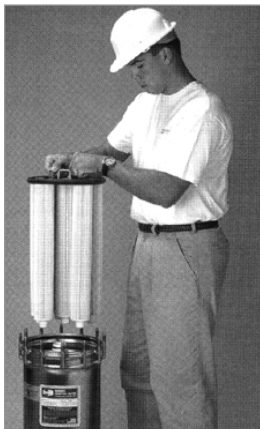
With conventional cartridge filter designs, inlets are located **above** outlets. Therefore, vents are required to relieve air that can accumulate within the filter vessel during operation. By-pass can also occur when unfiltered liquid drains to the sump while the cartridges are removed, when the filter is put back in service. Please see diagrams, below:





## Two Filter Styles

### Cartridge Cluster Filters and High Capacity Models



#### Cartridge Cluster Filters

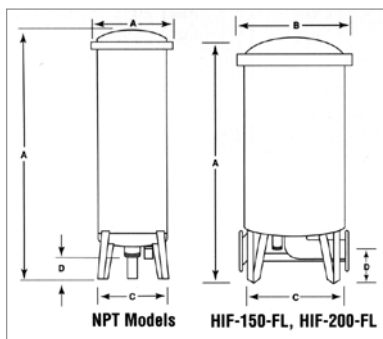
Cartridges in the HIF7, HIF14, HIF16, HIF21 and HIF24 models are arranged in a single "cartridge cluster", so all cartridges are removed at one time.

#### Hi Capacity Filters

Cartridges in the HIF42, HIF75, HIF100, HIF150-FL, HIF200FL models are installed on lifting rods so a single stack of cartridges is removed at one time for convenience.

#### Specifications:

Filter Vessel & Metal components	Low carbon 304 stainless steel, electro polished
Rods & standpipes	CPVC, standard models; 304 stainless steel, all stainless models
Pipe caps	CPVC, standard models; 304 stainless steel, all stainless models
Rim gaskets	EPDM, standard. Buna-N and Viton available
O-Rings	Buna-N, standard. EPDM and Viton available
Bottom seals	Natural gum rubber, standard; EPDM and Buna-N available
Wing Nuts	Brass, Brass nuts and stainless steel flat washers available
Temperature	Rated to 140 °F (60 °C) with CPVC rods, pipe caps, stanf pipes & standard Harmsco cartridges. To 200 °F (93 °C) for all stainless models with stainless steel rods, pipe caps, standpipes and Harmsco High-temp cartridges. Temperature limits vary and depend on pressure & time under load.
Pressure	Rated for pressure to 150 psid(10 bar) maximum.
Flow	Typical flow rates are 3-6 GPM per single length 9 3/4" Harmsco cartridges.



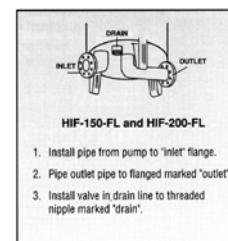
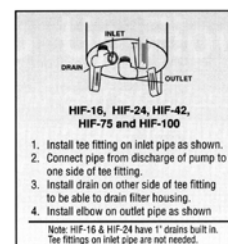
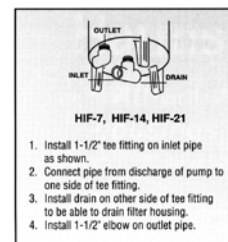
#### Dimensions:

Model	A	B	C	D	Service Height	Inlet/Outlet	Drain
HIF7	19 1/2"	13"	13"	3 1/2"	35"	1 1/2" NPT	None*
HIF14	28"	13"	13"	3 1/2"	48"	1 1/2" NPT	None*
HIF16	28"	13"	13"	4"	48"	2" NPT	1" NPT
HIF21	37"	13"	13"	3 1/2"	68"	1 1/2" NPT	None*
HIF24	37"	13"	13"	4"	68"	2" NPT	1" NPT
HIF42	40"	18"	18"	5 3/8"	68"	2" NPT	None*
HIF75	42"	20"	20"	5 7/8"	70"	3" NPT	None*
HIF100	52"	20"	20"	5 7/8"	87"	3" NPT	None*
HIF150FL	48"	28"	28"	5 3/16"	76"	4" Flange	1 1/2" NPT
HIF200FL	58"	28"	28"	5 3/16"	93"	4" Flange	1 1/2" NPT

\* Install tee fittings and valve on inlet for drain. \*\* To center of flange fittings.



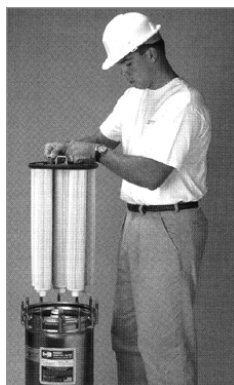
#### Typical Installations:



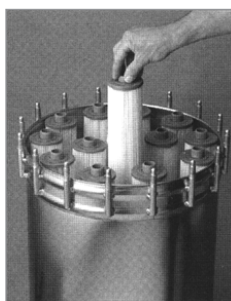
#### Chemical Resistant Coatings:



Harmsco™ filters are available with a DYKOR coating, a high performance material like PTFE used to provide increased resistance to chemicals, abrasion & the environment. The coating is applied to all stainless steel surfaces (inside & out).



Cluster Models



High Capacity Models



HIF 7-100



HIF - FL Series

## Harmsco™ Filters Features:

### Cartridge Cluster Models:

- Entire set of filter cartridges is removed at one time for cleaning or replacement.
- Filter rack assembly is made of CPVC (stainless steel available)
- Rugged 304 electro-polished stainless steel housing.
- Individual studs for safe, secure lid closure.
- Brass wing nuts for hand tightening.
- Pressure rated to 150 PSI.
- For whole house, commercial, industrial and municipal applications.



### High Capacity Models:

- Same features as above with:
- CPVC lifting rods to remove a single stack of cartridges at one time.

Part Number	HIF7	HIF14	HIF16	HIF21	HIF24
Flow Rate (USGPM)	Up to 30	Up to 60	Up to 75	Up to 90	Up to 100
Flow Rate (LPM)	Up to 113	Up to 226	Up to 284	Up to 340	Up to 397
Flow Rate (M3HR)	Up to 7	Up to 14	Up to 16	Up to 21	Up to 24
# of Std Cartridges	7	14	16	21	24
Alternative cartridge	Single only	Doubles	Doubles	Triples	Triples
Pipe size	1 1/2" NPT	1 1/2" NPT	2" NPT	1 1/2" NPT	2" NPT
Filter Height	19.5"	28"	28"	37"	37"
Floor space required	13" x 13"	13" x 13"	13" x 13"	13" x 13"	13" x 13"
Service Height clearance	35"	48"	48"	68"	68"
Shipping weight	29 lbs.	39 lbs.	39 lbs.	50 lbs.	50 lbs.
Carton dimensions	14" x 14" x 21"	14" x 14" x 38"	14" x 14" x 38"	14" x 14" x 41"	14" x 14" x 41"
LIST PRICE cartridges not included	\$ 2611.73	3709.90	4050.00	4719.80	5054.71

Part Number	HIF42	HIF75
Flow Rate (USGPM)	Up to 175	Up to 300
Flow Rate (LPM)	Up to 662	Up to 1135
Flow Rate (M3HR)	Up to 42	Up to 75
# of Std Cartridges	42	75
Alternative cartridge	Triples	Triples
Pipe size	2" NPT	3" NPT
Filter Height	40"	42"
Floor space required	18"x18"	20"x20"
Service Height clearance	68"	70"
Shipping weight	100 lbs.	129 lbs.
Carton dimensions	19"x19"x43"	23"x23"x53'
LIST PRICE cartridges not included	\$ 11127.11	15846.93

Recommended flow rates for guidelines only. Typical flow rates are 3 to 6 GPM per 9 3/4" cartridge. Standard Harmsco Up-Flow filter housings and filter cartridges rated for temperatures to 140 °F (60 °C) ratings based on pressure and time under load. All stainless filter housings and high temperature cartridges recommended for temperature over 140 °F (60 °C) to 200 °F (93 °C).



HUR-AP Series

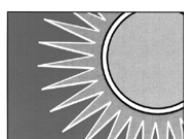
## Harmsco™ Hurricane Filters

### It's a Separator & Cartridge Filter in One

Hurricane filters provide unsurpassed performance because they separate dense solids prior to cartridge filtration for extended filter life, increased dirt holding capacity and reduced maintenance costs. In many respects Hurricane filters are two filters in one. Components include outer chamber for particle separation, inner chamber for cartridge filtration and built-in drain for purge, if required.

#### Features:

- Outer chamber collects heavy solids at the bottom due to centrifugal force & rotational flow.
- Inner chamber filters liquid through a single cartridge. Liquid enters the filter tangentially to provide rotational flow and centrifugal force for partial separation. Liquid flows out of the filter through the standpipe and outlet fitting.
- Rotational flow pattern continuously "fluffs" filter cake to increase dirt and debris holding capacity to extend filter life and time between cleaning.
- In heavy solid applications, manual or automatic valves may be used to purge solids from the outer chamber. Tests demonstrate approximately half of the heavy solids, like sand, separate prior to the filtration chamber at 50 GPM.
- Constructed of low carbon 3/4 stainless steel for durability and long life.
- All stainless steel components are electro-polished for superior finish, resistance to corrosion & increased durability. (Special chemical resistant coatings available.)
- Fail safe lids with individual studs for optimum security. No v-clamps with only one bolt to secure lids.
- Bronze wing nuts are used so no tools are required. Finger tight is generally sufficient. Hex nuts are recommended with 75 ft-lbs. of torque above 100 psi.
- 90° elbow and 45° sweep on outlet for staggered in-line installation.
- CPVC standpipe for up-flow design.
- 1/4" couplers are installed in inlet and outlet fittings for pressure gauges.



Conventional straight pleat



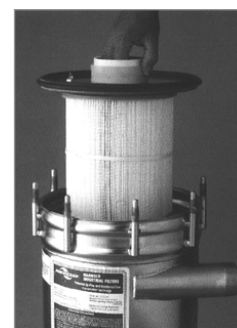
Angled Hurricane pleat

Unlike conventional designs, Hurricane's patented cartridges are made with deep, angles pleats to direct the flow into the pleated area for increased solids removal.



### Single "Jumbo" Cartridge Filter

Design of a single, jumbo cartridge is easy to install, remove, clean and replace. Hurricane Cartridges are cleanable and re-usable in most applications.



Part Number	HUR40HP	HUR90HP	HUR170HP
Flow Rate (USGPM)	Up to 50	Up to 100	Up to 150
Flow Rate (LPM)	Up to 189	Up to 378	Up to 568
Flow Rate (M3HR)	Up to 12	Up to 24	Up to 36
Pipe size (NPT)	2"	2"	2"
Drain (NPT)	1"	1"	1"
Filter Height	21"	31"	41"
Floor space required	15" x 15"	15" x 15"	15" x 15"
Service Height clearance	31"	51"	72"
Shipping weight	40 lbs.	51 lbs.	64 lbs.
LIST PRICE	\$ 4891.15	5817.98	8764.61
cartridges not included			



# Harmsco® Filter Cartridges



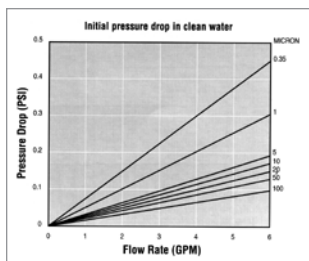
801 Series



Certified to  
ANSI-NSF 61



Third Party Certified  
to NSF / ANSI 372



HB Series



Certified to  
ANSI-NSF 61



Third Party Certified  
to NSF / ANSI 372



Certified to  
ANSI-NSF 61



Third Party Certified  
to NSF / ANSI 372

HAC10W

## Genuine Harmsco® Filter Cartridge Features:

- Heavy duty filter applications.
- Pleated polyester design for more surface area, longer life.
- **Six Sq Ft.** of filtration, 50% more than the competition per 9 3/4". (12 sq ft for 19 1/2")
- Thermally bonded construction with FDA listed materials.
- Color coded & branded end caps for easy micron identification.
- Cleanable, reusable in most applications.
- Low pressure drop.
- Individually wrapped.



### Specifications:

Media: Polyester-Plus™  
End Caps: Plastisol (pliable PVC)  
Center tubes: Rigid PVC perforated  
Surface Area: Approx 6 sq.ft. (9 3/4")  
Temp limit: Up to 140 °F depending on time & load  
pH: 3-11  
Flow rate: 3-6 GPM per 9 3/4"  
Dimensions: 2 3/4" OD, 1 1/16" ID

Part Number	Micron Size	Cap Color	OD	Length	Ctn Qty	List Price
801-0.35-W	0.35	Brown	2 3/4"	9 3/4"	24	\$ 36.87
801-1-W	1	Tan	2 3/4"	9 3/4"	24	27.16
801-5-W	5	White	2 3/4"	9 3/4"	24	23.22
801-10-W	10	Red	2 3/4"	9 3/4"	24	23.22
801-20-W	20	Blue	2 3/4"	9 3/4"	24	23.22
801-50-W	50	Yellow	2 3/4"	9 3/4"	24	23.22
801-100-W	100	Green	2 3/4"	9 3/4"	24	23.22
921-0.35-W	0.35	Brown	2 3/4"	19 1/2"	24	\$ 69.58
921-1-W	1	Tan	2 3/4"	19 1/2"	24	55.90
921-5-W	5	White	2 3/4"	19 1/2"	24	46.71
921-10-W	10	Red	2 3/4"	19 1/2"	24	46.71
921-20-W	20	Blue	2 3/4"	19 1/2"	24	46.71
921-50-W	50	Yellow	2 3/4"	19 1/2"	24	46.71

## Harmsco® Calypso Blue™ Filter Cartridge Features:

- Premium quality made of pleated polyester filter media for long life and high dirt holding.
- Cartridges can be cleaned and reused in most applications.
- Individually shrink wrapped.

Part Number	Micron Size	OD	Length	Ctn Qty	List Price
HB-10-0.35-W	0.35	4 1/2"	9 3/4"	8	\$ 86.04
HB-10-1-W	1	4 1/2"	9 3/4"	8	63.72
HB-10-5-W	5	4 1/2"	9 3/4"	8	56.08
HB-10-20-W	20	4 1/2"	9 3/4"	8	56.08
HB-10-50-W	50	4 1/2"	9 3/4"	8	56.08
HB-20-0.35-W	0.35	4 1/2"	20"	4	\$ 139.84
HB-20-1-W	1	4 1/2"	20"	4	112.99
HB-20-5-W	5	4 1/2"	20"	4	96.74
HB-20-20-W	20	4 1/2"	20"	4	96.74
HB-20-50-W	50	4 1/2"	20"	4	96.74

## Genuine Harmsco® Activated Carbon Filter Cartridge Features:

- Composite of pulverized activated carbon & polyolefin fibers bonded together.
- 5 micron rating.
- Max temp 160 °F.
- Substantially removes chlorine, organic chemicals, tastes and odors.
- Max capacity; 3000 gal.chlorine, 500 gal. organic chemicals.

Part Number	Micron Size	OD	Length	Ctn Qty	List Price
HAC10W	5	2 3/4"	9 3/4"	24	\$ 42.45

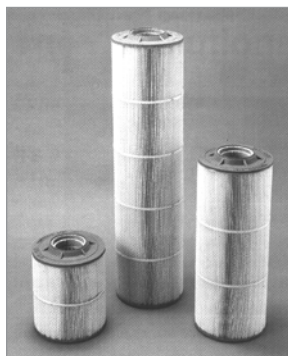


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# Harmsco® Filter Cartridges



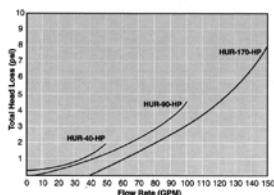
HC Series



Certified to  
ANSI-NSF 61



**NO LEAD**  
< 0.25% Pb by  
weighted avg  
Third Party Certified  
to NSF / ANSI 372



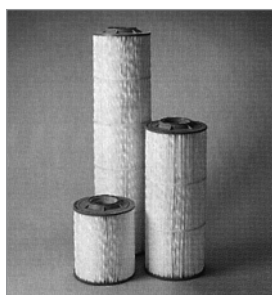
Pressure drop shown above is for filter housing and 20 micron filter cartridge in clean water. Data developed by NSF International.

## Genuine Hurricane Replacement Cartridge Features:

- Standard pleated polyester filter elements.
- Polyester-Plus™ filter media is cleanable and reusable in most applications.
- Rated to 140 °F and to 50 psi.
- Separates solids in liquids with pH of 3 to 11.
- Cartridge OD 7 3/4", ID 3" FPT
- Packaged one per carton.



Part Number	Micron Size	Length	Ctn Qty	List Price
<b>HUR40HP Replacement Cartridges</b>				
HC40-0.35	0.35	9 5/8"	1	\$ 320.85
HC40-1	1	9 5/8"	1	285.91
HC40-5	5	9 5/8"	1	262.55
HC40-20	20	9 5/8"	1	262.55
<b>HUR90HP Replacement Cartridges</b>				
HC90-0.35	0.35	19 1/2"	1	452.13
HC90-5	5	19 1/2"	1	367.57
HC90-20	20	19 1/2"	1	367.57
HC90-50	50	19 1/2"	1	367.57
HC90-100	100	19 1/2"	1	367.57
<b>HUR170HP Replacement Cartridges</b>				
HC170-1	1	30 3/4"	1	627.20
HC170-5	5	30 3/4"	1	568.85
HC170-20	20	30 3/4"	1	568.85



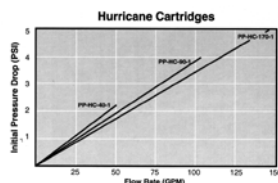
PP Series



Certified to  
ANSI-NSF 61



**NO LEAD**  
< 0.25% Pb by  
weighted avg  
Third Party Certified  
to NSF / ANSI 372



Data include cartridge and Hurricane filter housing.

## Genuine Hurricane Poly-Pleat™ Replacement Cartridge Features:

- Designed for drinking water applications to remove **cryptosporidium** and **Giardia Cysts**.
- Rated to 140 °F
- Polypropylene filter media offers compatability with many aggressive chemicals.
- PP-S Series Cartridges OD 2 3/4"
- PP-BB Series Cartridges OD 4 1/4"
- PPHC Series Cartridge OD 7 3/4", ID 3" FPT.
- Individually wrapped.

Part Number	Micron Size	Length	Ctn Qty	List Price
PP-S-1	1 absolute	9 3/4"	24	\$ 57.25
PP-BB-10-1	1 absolute	9 3/4"	8	132.21
PP-BB-20-1	1 absolute	19 1/2"	1	217.78
PPHC40-1	1 absolute	9 5/8"	1	500.07
PPHC90-1	1 absolute	19 1/2"	1	791.80



# Vu-Flow Screen Filters



## EQUIVALENCY CHART

MESH	MICRONS	INCHES
24	711	0.028
* 30	533	0.021
40	381	0.015
* 60	254	0.010
* 100	152	0.006
* 140	104	0.004
250	61	0.0024
500	30	0.0012
1000	15	0.0006

\* Also available with stainless steel by special order

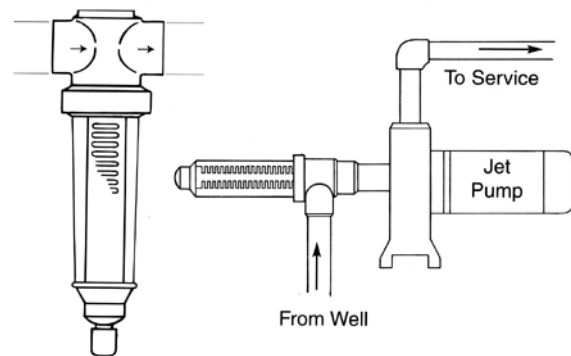
## INSTALLATION

- Install on suction or discharge side of system.
- Install on discharge to allow use of purge valve for easy one step purge cleaning. \* Do not install filters with purge valves on suction side of pump.
- Manifold two or more filters for applications with flow rates higher than 100 GPM.
- Hand tighten only - Use of tools voids warranty

## Vu-Flow Filter Features:

- Easy installation on suction or discharge side of pump.
- Filtered material collects on the outside of the screen, making it easy to clean.
- Clear polycarbonate housing permits instant visual inspection.
- Molded PVC filter body allows glue together installation similar to standard PVC pipe fittings.
- Molded from UV stabilized weather resistant materials for long service life.
- Most models have 1/2" MNPT cover drain outlet for quick one step purge cleaning.
- Inlet and outlet slip can be bushed to fit required pipe size.
- Polyester screens are easily cleaned and re-used eliminating expensive replacement.
- Stainless steel screens are available special order.
- Maximum operating pressure: 150 psi @ 73 °F.
- Flow rates from 1-100 gallons per minute.
- Screen mesh sizes smaller than 250 (61 microns) are supported with No. 30 mesh to assure durability.

## • WATER USE ONLY



# Vu-Flow Screen Filters



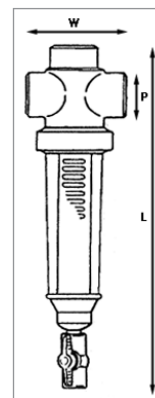
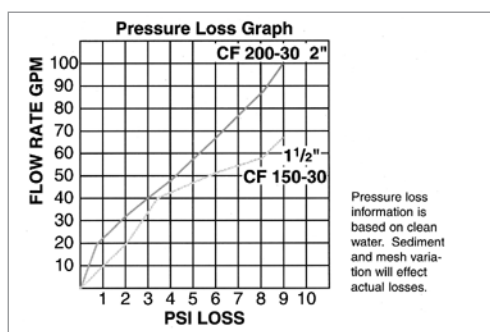
CF Series



## Combination Style Screen Filter Features:

- Installs as a 90° "L" or 180° in-line "T" installation.
- 10-100 GPM models.
- 1-1/4" plug (supplied) adds versatility to unused outlet.
- Maximum pressure: 150 PSI @ 73°F.
- 1/2" MPT drain cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

## • WATER USE ONLY



Part Number	Inlet/Outlet "P" Slip x Slip x Slip	Mesh # and Size	Mesh # Opening	Min*/Max Flow GPM	"L"	"W"	List Price w/ Purge Valve
CF150-24P	1 1/2"	24 (711 mic)	0.028	10-50	16 5/8"	5 1/4"	\$ 140.09
CF150-40P	1 1/2"	40 (381 mic)	0.015	10-50	16 5/8"	5 1/4"	140.09
CF150-60P	1 1/2"	60 (254 mic)	0.0100	10-50	16 5/8"	5 1/4"	147.27
CF150-100P	1 1/2"	100 (152 mic)	0.006	10-50	16 5/8"	5 1/4"	147.27
CF150-140P	1 1/2"	140 (104 mic)	0.004	10-50	16 5/8"	5 1/4"	147.27
CF150-250P	1 1/2"	250 (61 mic)	0.0024	10-50	16 5/8"	5 1/4"	151.47
CF150-500P	1 1/2"	500 (30 mic)	0.0012	10-50	16 5/8"	5 1/4"	151.47
CF150-1000P	1 1/2"	1000 (15 mic)	0.0006	10-50	16 5/8"	5 1/4"	151.47
CF200-24P	2"	24 (711 mic)	0.028	18-100	18 7/8"	5 1/2"	227.99
CF200-40P	2"	40 (381 mic)	0.015	18-100	18 7/8"	5 1/2"	227.99
CF200-60P	2"	60 (254 mic)	0.0100	18-100	18 7/8"	5 1/2"	233.92
CF200-100P	2"	100 (152 mic)	0.006	18-100	18 7/8"	5 1/2"	233.92
CF200-140P	2"	140 (104 mic)	0.004	18-100	18 7/8"	5 1/2"	233.92
CF200-250P	2"	250 (61 mic)	0.0024	18-100	18 7/8"	5 1/2"	242.24
CF200-500P	2"	500 ( 30 mic)	0.0012	18-100	18 7/8"	5 1/2"	242.24

• Do not use metal valve or fitting on 1/2" drain connection.  
 • Do not install filters with purge valve on suction side of pump.  
 \* Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products



# Vu-Flow Screen Filters

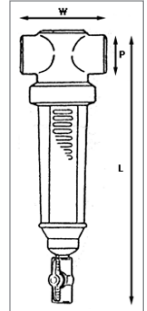
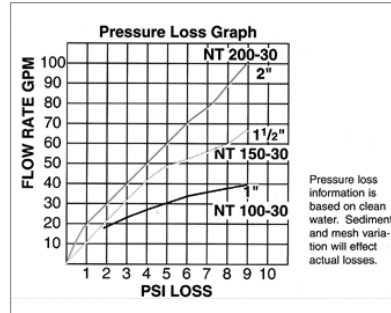


NT Series

## T Style Screen Filter Features:

- 180° in-line "T" style installation.
- 1-100 GPM models.
- 1/2" MPT cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

- **WATER USE ONLY**



Part Number	Inlet/Outlet "P"	Mesh # & Size	Mesh Opening	Min*/Max Flow GPM	"L"	"W"	List Price
<b>IPS x IPS</b>							
NT75-24P	3/4" x 3/4"	24 (711 mic)	0.028	1-25	11 3/8"	5"	\$ 96.31
NT75-60P	3/4" x 3/4"	60 (254 mic)	0.010	1-25	11 3/8"	5"	97.44
NT75-100P	3/4" x 3/4"	100 (152 mic)	0.006	1-25	11 3/8"	5"	97.44
NT75-140P	3/4" x 3/4"	140 (104 mic)	0.004	1-25	11 3/8"	5"	97.44
NT75-250P	3/4" x 3/4"	250 (61 mic)	0.0024	1-25	11 3/8"	5"	101.02
NT75-500P	3/4" x 3/4"	500 (30 mic)	0.0012	1-25	11 3/8"	5"	101.02
NT75-1000P	3/4" x 3/4"	1000 (15 mic)	0.0006	1-25	11 3/8"	5"	101.02
<b>Slip x Slip</b>							
NT100-24P	1" x 1"	24 (711 mic)	0.028	1-25	11 3/8"	5"	95.89
NT100-30P	1" x 1"	30 (533 mic)	0.021	1-25	11 3/8"	5"	95.89
NT100-40P	1" x 1"	40 (381 mic)	0.015	1-25	11 3/8"	5"	95.89
NT100-60P	1" x 1"	60 (254 mic)	0.01	1-25	11 3/8"	5"	96.25
NT100-100P	1" x 1"	100 (152 mic)	0.006	1-25	11 3/8"	5"	96.25
NT100-140P	1" x 1"	140 (104 mic)	0.004	1-25	11 3/8"	5"	96.25
NT100-250P	1" x 1"	250 (61 mic)	0.0024	1-25	11 3/8"	5"	100.43
NT100-500P	1" x 1"	500 (30 mic)	0.0012	1-25	11 3/8"	5"	100.43
NT100-1000P	1" x 1"	1000 (15 mic)	0.0006	1-25	11 3/8"	5"	100.43
<b>Slip x Slip</b>							
NT150-24P	1-1/2" x 1-1/2"	24 (711 mic)	0.028	10-50	15 3/8"	5 1/4"	126.43
NT150-30P	1-1/2" x 1-1/2"	30 (533 mic)	0.021	10-50	15 3/8"	5 1/4"	126.43
NT150-40P	1-1/2" x 1-1/2"	40 (384 mic)	0.015	10-50	15 3/8"	5 1/4"	126.43
NT150-60P	1-1/2" x 1-1/2"	60 (254 mic)	0.010	10-50	15 3/8"	5 1/4"	130.39
NT150-100P	1-1/2" x 1-1/2"	100 (152 mic)	0.006	10-50	15 3/8"	5 1/4"	130.39
NT150-140P	1-1/2" x 1-1/2"	140 (104 mic)	0.004	10-50	15 3/8"	5 1/4"	130.39
NT150-250P	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	10-50	15 3/8"	5 1/4"	135.54
NT150-500P	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	10-50	15 3/8"	5 1/4"	136.79
NT150-1000P	1-1/2" x 1-1/2"	1000 (15 mic)	0.0006	10-50	15 3/8"	5 1/4"	136.79
<b>Slip x Slip</b>							
NT200-24P	2" x 2"	24 (711 mic)	0.028	18-100	17 7/8"	5 1/2"	200.68
NT200-30P	2" x 2"	30 (533 mic)	0.021	18-100	17 7/8"	5 1/2"	200.68
NT200-40P	2" x 2"	40 (384 mic)	0.015	18-100	17 7/8"	5 1/2"	200.68
NT200-60P	2" x 2"	60 (254 mic)	0.010	18-100	17 7/8"	5 1/2"	206.96
NT200-100P	2" x 2"	100 (152 mic)	0.006	18-100	17 7/8"	5 1/2"	206.96
NT200-140P	2" x 2"	140 (104 mic)	0.004	18-100	17 7/8"	5 1/2"	206.96
NT200-250P	2" x 2"	250 (61 mic)	0.0024	18-100	17 7/8"	5 1/2"	215.00
NT200-500P	2" x 2"	500 (30 mic)	0.0012	18-100	17 7/8"	5 1/2"	215.00
NT200-1000P	2" x 2"	1000 (15 mic)	0.0006	18-100	17 7/8"	5 1/2"	215.00

\* Minimum flow needed for "spin-out" action.

- Do not install filters with purge valve on suction side of pump.

Carton Quantity of 10 for all products



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FALL 2016

**4.33**

# Vu-Flow Screen Filters



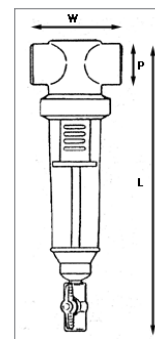
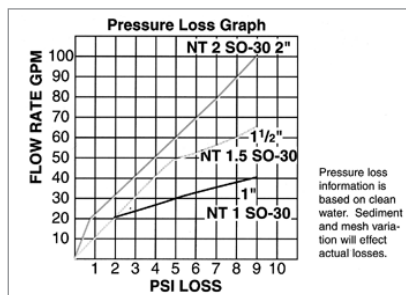
NT SO Series



## T Style Sand Separator Filter Features:

- 180° in-line "T" style.
- 1-100 GPM models
- "Spin-out" action separates heavier than water particles away from screen into the collection chamber.
- Screen portion of element removes lighter than water particles.
- Extended sump provides greater collection area for sediment.
- Supplied with a 1/2" cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

### • WATER USE ONLY



Part Number	Inlet/Outlet "P"	Mesh # & Size	Mesh Opening	Min*/Max Flow GPM	"L"	"W"	List Price w/ Purge Valve
<b>IPS x IPS (Female Thread 3/4" only)</b>							
NT75SO-60P	3/4" x 3/4"	60 (254 mic)	0.01	1-25	14 3/8"	5	\$ 127.07
NT75SO-100P	3/4" x 3/4"	100 (152 mic)	0.006	1-25	14 3/8"	5	127.07
NT75SO-140P	3/4" x 3/4"	140 (104 mic)	0.004	1-25	14 3/8"	5	127.07
NT75SO-250P	3/4" x 3/4"	250 (61 mic)	0.0024	1-25	14 3/8"	5	131.79
<b>Slip x Slip</b>							
NT1SO-60P	1" x 1"	60 (254 mic)	0.01	1-25	14 3/8"	5	127.07
NT1SO-100P	1" x 1"	100 (254 mic)	0.006	1-25	14 3/8"	5	127.07
NT1SO-140P	1" x 1"	140 (104 mic)	0.004	1-25	14 3/8"	5	127.07
NT1SO-250P	1" x 1"	250 (61 mic)	0.0024	1-25	14 3/8"	5	131.79
<b>Slip x Slip</b>							
NT1.5SO-24P	1-1/2" x 1-1/2"	24 (711 mic)	0.028	10-50	15 3/8"	5 1/4"	154.36
NT1.5SO-30P	1-1/2" x 1-1/2"	30 (533 mic)	0.021	10-50	15 3/8"	5 1/4"	154.36
NT1.5SO-40P	1-1/2" x 1-1/2"	40 (384 mic)	0.015	10-50	15 3/8"	5 1/4"	154.36
NT1.5SO-60P	1-1/2" x 1-1/2"	60 (254 mic)	0.010	10-50	15 3/8"	5 1/4"	159.05
NT1.5SO-100P	1-1/2" x 1-1/2"	100 (152 mic)	0.006	10-50	15 3/8"	5 1/4"	159.05
NT1.5SO-140P	1-1/2" x 1-1/2"	140 (104 mic)	0.004	10-50	15 3/8"	5 1/4"	159.05
NT1.5SO-250P	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	10-50	15 3/8"	5 1/4"	165.12
NT1.5SO-500P	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	10-50	15 3/8"	5 1/4"	165.12
<b>Slip x Slip</b>							
NT2SO-24P	2" x 2"	24 (711 mic)	0.028	18-100	17 7/8"	5 1/2"	238.75
NT2SO-30P	2" x 2"	30 (533 mic)	0.021	18-100	17 7/8"	5 1/2"	238.75
NT2SO-40P	2" x 2"	40 (384 mic)	0.015	18-100	17 7/8"	5 1/2"	238.75
NT2SO-60P	2" x 2"	60 (254 mic)	0.010	18-100	17 7/8"	5 1/2"	242.85
NT2SO-100P	2" x 2"	100 (152 mic)	0.006	18-100	17 7/8"	5 1/2"	242.85
NT2SO-140P	2" x 2"	140 (104 mic)	0.004	18-100	17 7/8"	5 1/2"	242.85
NT2SO-250P	2" x 2"	250 (61 mic)	0.0024	18-100	17 7/8"	5 1/2"	248.82
NT2SO-500P	2" x 2"	500 (30 mic)	0.0012	18-100	17 7/8"	5 1/2"	248.82

- Do not use metal valve or fitting on 1/2" drain connections
  - Do not install filters with purge valves on the suction side of pump
- \* Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products



# Vu-Flow Screen Filters

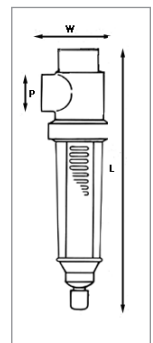
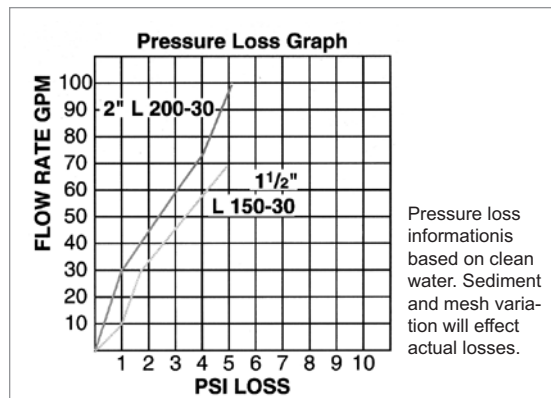


L Series



## L Style Screen Filter Features:

- 90° "L" style installation.
- Install on suction or discharge side of pump.
- 0-100 GPM models.
- 1/2" MPT drain cleanout is not available on this model.
- Maximum pressure: 150 PSI @ 73°F.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.
- **WATER USE ONLY**

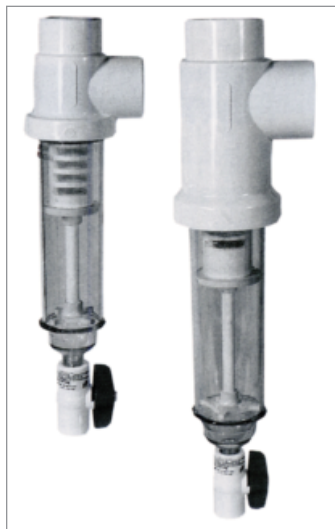


Part Number	Inlet/Outlet "P" Slip	Mesh # and Size	Mesh Opening	Normal Flow GPM	"L"	"W"	List Price
L150-24	1-1/2" x 1-1/2"	24 (711 mic)	0.028	0-50	14 1/4	4-1/2	133.01
L150-30	1-1/2" x 1-1/2"	30 (533 mic)	0.021	0-50	14 1/4	4-1/2	133.01
L150-60	1-1/2" x 1-1/2"	60 (254 mic)	0.010	0-50	14 1/4	4-1/2	138.35
L150-100	1-1/2" x 1-1/2"	100 (152 mic)	0.006	0-50	14 1/4	4-1/2	138.35
L150-250	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	0-50	14 1/4	4-1/2	143.78
L150-500	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	0-50	14 1/4	4-1/2	143.78
L200-24	2" x 2"	24 (711 mic)	0.028	0-100	18	5 1/2"	217.33
L200-30	2" x 2"	30 (533 mic)	0.021	0-100	18	5 1/2"	217.33
L200-60	2" x 2"	60 (254 mic)	0.010	0-100	18	5 1/2"	223.80
L200-100	2" x 2"	100 (152 mic)	0.006	0-100	18	5 1/2"	223.80
L200-250	2" x 2"	250 (61 mic)	0.0024	0-100	18	5 1/2"	231.58
L200-500	2" x 2"	500 (30 mic)	0.0012	0-100	18	5 1/2"	231.58

"L" Style filters do not use purge valves.

Carton Quantity of 10 for all products

# Vu-Flow Screen Filters

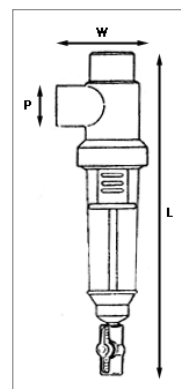
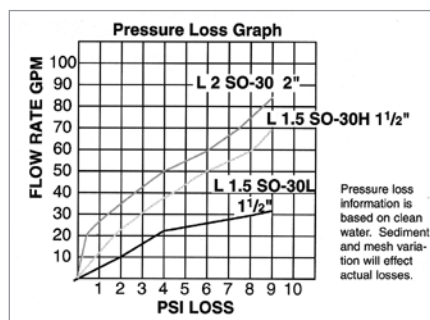


L SO Series



## L Style Sand Separator Filter Features:

- 90° "L" style installation.
- "Spin out action" separates heavier than water particles away from the screen into the collection chamber.
- 5-90 GPM
- Screen portion of element removes lighter than water elements.
- Available in 5-20, 15-40 and 5-90 GPM models. (A minimum flow rate of 5 GPM is required to operate the filter).
- Extended sump provides greater collection area for sediment.
- 1/2" MPT cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.
- Available in Low Flow (LF) or High Flow (HF) models.
- **WATER USE ONLY**



Part Number	Inlet/Outlet Slip x Slip "P"	Mesh # and Size	Mesh Opening	Min*/Max GPM	"L"	"W"	List Price w/ Purge Valve
L1.5SO-60LFP	1-1/2"	60 (254 mic)	0.01	5-20	14 7/8"	4-1/2	\$ 166.87
L1.5SO-60HFP	1-1/2"	60 (254 mic)	0.01	15-40	14 7/8"	4-1/2	166.87
L1.5SO-100LFP	1-1/2"	100 (152 mic)	0.006	5-20	14 7/8"	4-1/2	166.87
L1.5SO-100HFP	1-1/2"	100 (152 mic)	0.006	15-40	14 7/8"	4-1/2	166.87
L1.5SO-140LFP	1-1/2"	140 (104 mic)	0.004	5-20	14 7/8"	4-1/2	166.87
L1.5SO-140HFP	1-1/2"	140 (104 mic)	0.004	15-40	14 7/8"	4-1/2	166.87
L1.5SO-250LFP	1-1/2"	250 (61 mic)	0.0024	5-20	14 7/8"	4-1/2	173.41
L1.5SO-250HFP	1-1/2"	250 (61 mic)	0.0024	15-40	14 7/8"	4-1/2	173.41
L1.5SO-500LFP	1-1/2"	500 (30 mic)	0.0012	5-20	14 7/8"	4-1/2	173.41
L1.5SO-500HFP	1-1/2"	500 (30 mic)	0.0012	15-40	14 7/8"	4-1/2	173.41
L2SO-60P	2"	60 (254 mic)	0.01	35-90	20 7/8"	5-1/2	254.67
L2SO-100P	2"	100 (152 mic)	0.006	35-90	20 7/8"	5-1/2	254.67
L2SO-140P	2"	140 (104 mic)	0.004	35-90	20 7/8"	5-1/2	254.67
L2SO-250P	2"	250 (61 mic)	0.0024	35-90	20 7/8"	5-1/2	261.31

- Do not use metal valve or fitting on 1/2" drain connection
  - Do not install filters with purge valves on the suction side of pump
  - LF suffix denotes low flow, HF suffix denotes high flow.
- \* Minimum flow needed for "spin-out" action.

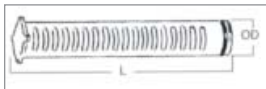
Carton Quantity of 10 for all products



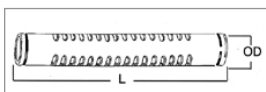
# Vu-Flow Replacement Screens



## REPLACEMENT SCREENS FOR FILTERS



NT Screens L	OD
NT30	5 1/8 1 1/8
NT60	8 1/8 1 5/8
NT120	10 1 7/8



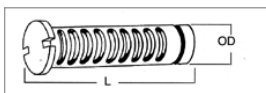
L Screens L	OD
L60	9 7/8 1 5/8
L120	14 7/8 1 7/8

3/4" & 1" NT Filters		1-1/2" NT or Combo Filters		2" NT or Combo Filters	
Part No.	List Price	Part No.	List Price	Part No.	List Price
NT30SC24	\$ 23.17	NT60SC24	\$ 38.05	NT120SC24	\$ 64.10
NT30SC30	23.17	NT60SC30	38.05	NT120SC30	64.10
NT30SC40	23.17	NT60SC40	38.05	NT120SC40	64.10
NT30SC60	23.79	NT60SC60	41.64	NT120SC60	68.82
NT30SC100	23.79	NT60SC100	41.64	NT120SC100	68.82
NT30SC140	23.79	NT60SC140	41.64	NT120SC140	68.82
NT30SC250	26.87	NT60SC250	46.46	NT120SC250	76.10
NT30SC500	26.87	NT60SC500	46.46	NT120SC500	76.10
NT30SC1000	26.87	NT60SC1000	46.46	NT120SC1000	76.10

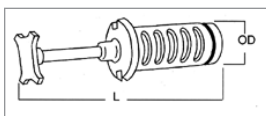
  

1-1/2" L Filters		2" L Filters	
Part No.	List Price	Part No.	List Price
L60SC24	\$ 39.89	L120SC24	\$ 66.57
L60SC30	39.89	L120SC30	66.57
L60SC40	39.89	L120SC40	66.57
L60SC60	44.00	L120SC60	71.90
L60SC100	44.00	L120SC100	71.90
L60SC140	44.00	L120SC140	71.90
L60SC250	48.10		
L60SC500	48.10	L120SC500	79.59
L60SC1000	48.10	L120SC1000	79.59

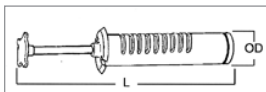
## REPLACEMENT SCREENS FOR SAND SEPARATORS



NT Sep Scrn L	OD
NT1SC	5 1/4 1 1/8



NT Sep Scrn L	OD
NT1.5SC	8 1/8 1 5/8
NT2SC	10 1 7/8



L Sep Scrn L	OD
L1.5SC	10 1 5/8
L2SC	13 3/4 1 7/8

3/4" & 1" NT Sand Separators		1-1/2" NT Sand Separators		2" NT Sand Separators	
Part No.	List Price	Part No.	List Price	Part No.	List Price
NT1SC24	\$ 26.87	NT1.5SC24	\$ 66.44	NT2SC24	\$ 92.61
NT1SC30	26.87	NT1.5SC30	66.44	NT2SC30	92.61
NT1SC40	26.87	NT1.5SC40	66.44	NT2SC40	92.61
NT1SC60	28.00	NT1.5SC60	67.81	NT2SC60	94.97
NT1SC100	28.00	NT1.5SC100	67.81	NT2SC100	94.97
NT1SC140	28.00	NT1.5SC140	67.81	NT2SC140	94.97
NT1SC250	29.74	NT1.5SC250	70.68	NT2SC250	98.66
NT1SC500	29.74	NT1.5SC500	70.68	NT2SC500	98.66
NT1SC1000	29.74	NT1.5SC1000	70.68	NT2SC1000	98.66

1-1/2" L Sand Separators		2" L Sand Separators	
Part No.	List Price	Part No.	List Price
		L2SC24	\$ 96.81
L1.5SC30	70.15	L2SC30	96.81
L1.5SC40	70.15	L2SC40	96.81
L1.5SC60	70.68	L2SC60	99.18
L1.5SC100	70.68	L2SC100	99.18
L1.5SC140	70.68	L2SC140	99.18
L1.5SC250	73.74	L2SC250	116.72
L1.5SC500	73.74	L2SC500	116.72
L1.5SC1000	73.74	L2SC1000	116.72



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Fax (800) 729-3299

In Canada:

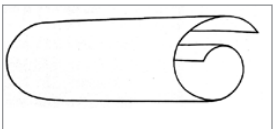
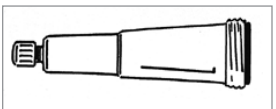
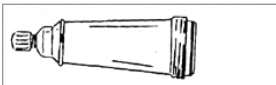
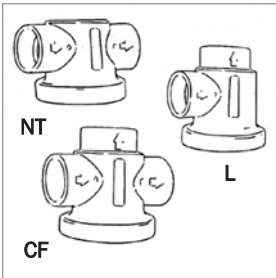
Phone (800) 268-7570

Fax (905) 629-3204

# Vu-Flow Strainers & Replacement Parts



4BSK Series



## Basket Strainer Features:

- Intake screen for lakes or ponds
- High volume capacity, up to 100 GPM.
- Three mesh sizes.
- All PVC construction with easy clean nylon screen.
- Debris accumulates on outside of strainer screen.
- 2" IPS female inlet slip fittings.



Part Number	Description	Ctn Qty	List Price
<b>Basket Strainers</b>			
4BSK24	2"x 4"x 24", 24 Mesh Nylon Screen	10	\$ 106.35
4BSK60	2"x 4"x 24", 60 Mesh Nylon Screen	10	110.57
4BSK100	2"x 4"x 24", 100 Mesh Nylon Screen	10	114.78
4BSK250	2"x 4"x 24", 250 Mesh Nylon Screen	10	119.08
<b>Filter Bodies (HEADS)</b>			
NT30B	1" NT Screen & NT Separator	1	46.97
NT60B	1-1/2" NT Screen & NT Separator	1	63.59
NT120B	2" NT Screen & NT Separator	1	77.24
CF60B	1-1/2" Combo Screen & Separator	1	76.10
CF120B	2" Combo Screen & Separator	1	96.31
L60B	1-1/2" L Screen	1	66.44
L120B	2" L Screen	1	81.33
L1.5BL	1-1/2" L Separator Low Flow	1	70.23
L1.5BH	1-1/2" L Separator High Flow	1	70.23
L2B	2" L Separator	1	90.77
<b>Screen Filter Covers (CLEAR SUMPS)</b>			
NT30C	1" & 3/4" NT & Combo Style	1	47.48
NT60C	1-1/2" NT & Combo Style	1	71.27
NT120C	2" NT & Combo Style - CLEAR	1	85.53
NT120W	2" NT & Combo Style - WHITE	1	88.39
<b>Separator Filter Covers (CLEAR SUMPS)</b>			
NT1C	1" NT, Combo & L Style	1	65.94
<b>"O" Ring Kits Separator &amp; Screen Filter</b>			
NT30S	1" & 3/4" NT & Combo Style	1	4.45
NT60S	1-1/2" NT & Combo Style	1	5.12
NT120S	2" NT & Combo Style	1	5.70
L60S	1-1/2" L Style	1	5.12
L120S	2" L Style	1	5.70
<b>Cover Guard</b>			
CG100	Black Filter Protector, 1"	1	10.77
CG150	Black Filter Protector, 1-1/2"	1	14.27
CG200	Black Filter Protector, 2"	1	16.61



# Automatic Flush Valve



AFV Series

## Automatic Flush Valve Specifications:

- Adjustable cycle time 5 min - 24 hours
- Working Pressure 200 PSIG
- Ambient Temperature 25 °F to 165 °F
- Enclosure Nema 4
- Voltage 115V, 1 Phase, 60 Hz
- Current 2.5 Amps
- Valve Construction Brass
- Seals Reinforced PTFE
- Discharge Volume 1/2" NPT-.92  
(Gal per cycle @ 30 PSIG)
- Power Cord 8' heavy duty grounded
- Full Port Ball Valve 1/2" NPT
- Discharge Time 3.5 seconds  
(Non-adjustable)



## Automatic Flush Valve Kit Includes:

- (2) 1/2" barb x 1/2" NPT male hose fittings
- (2) SAE size 8 SS worm drive clamps
- (24") 1/2" braid reinforced flexible PVC tubing. (Rated at 215 psi)

**KIT DOES NOT INCLUDE FILTER OR AUTOMATIC FLUSH VALVE.**

Please Note: TO insure optimum performance of automatic flush valve, it is recommended that you use the above rated tubing only.

Part Number	Description	Ctn Qty	List Price
AFV	Automatic Flush Valve	1	\$ 829.14
AFV-KIT	Automatic Flush Valve Kit	1	48.85

### Warranty and Disclaimer

A one year warranty applies to the original purchaser. The manufacturer warrants that the AFV will be free from original defects in material and workmanship.

Manufacturer will **repair or replace** all parts without charge, found to be defective under normal use and service within the warranty period upon return of product at customer's expense.





# Ultraviolet Disinfection Systems

*Ultraviolet disinfection is an effective way to provide bacteria free water for home or industry.*



UVSL Series

- Completely automatic.
- Compact and easy to install.
- No chemicals required.
- Low operating costs.
- Low maintenance.
- No taste or odor.

## **SAFE LITE Economy Series UV Disinfection System Features:**

- Quick installation.
- Economical.
- 304 stainless steel chamber. Electropolished.
- Sight port to safely view operation.
- 8 gallon complete with flow control.



UV, UVGDS &  
UV-W Series

## **Standard Series UV Disinfection System Features:**

### **UV Series:**

- Constructed for wall mounting.
- 304 stainless steel chamber. Electropolished.
- Sight port to safely view operation.
- 7 & 15 gallon complete with flow control.

### **UV-W Series:**

- Same as UV series with:
- Internal wiper unit for manual cleaning of quartz sleeve.
- 8 & 15 gallon complete with flow control.

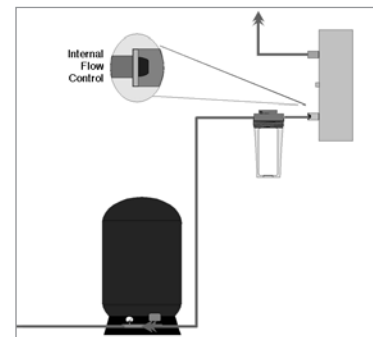
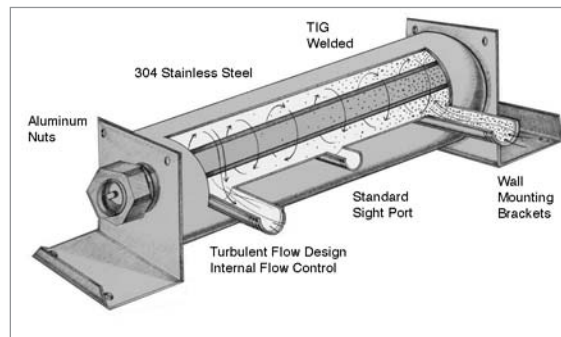
### **UV-GDS Series:**

- Same as UV series with:
- 7 & 15 gallon complete with flow control. Remote flow control adder for 24 gallon (not included)
- Electronic built-in "lamp-out" circuit/alarm.
- ON/OFF indicator light.
- Standard auxillary output terminal for optional solenoid shut-off (UVS077 not included).
- Built in surge protector and fuse.

# Ultraviolet Disinfection Systems



Water entering the disinfection unit flows in the space between the quartz sleeve and the chamber wall. Turbulent flow through the unit insures exposure of micro-organisms to lethal dosages of ultraviolet rays. Water exiting the chamber is safe and ready to use.



Typical Installation

Part Number	Supplier Part #	Max GPM	# of Lamps	KW @ 120V	AMPS @ 120V 220V	Pipe Size	Dimensions LxWxD	Weight	Lamp Out Alarm	List Price
<b>Safe Lite Economy Series</b>										
UVSL8		8	1	0.07	.60 .30	1" MIP 3/4" FIP	18"x4"x7"	8.5	No	\$ 928.69
<b>Standard Series</b>										
UV7		7	1	0.07	.60 .30	1" MIP 3/4" FIP	18"x4"x7"	17	No	1116.36
UV15		15	1	0.07	.60 .30	1" MIP 3/4" FIP	36"x4"x7"	28	No	1371.53
<b>GDS Series w/ Lamp out alarm</b>										
UV7SE	UV7GDS	7	1	0.07	.60 .30	1" MIP 3/4" FIP	18"x4"x7"	17	Yes	1176.30
UV15SE	UV15GDS	15	1	0.07	.60 .30	1" MIP 3/4" FIP	36"x4"x7"	28	Yes	1478.25

Lamp out circuit board provides a visual and audible alarm when a lamp outage occurs.

Solenoid protection can be added via the on-board relay and the purchase of an UVS079 Solenoid.

220V 50Hz less power cord net adder \$ 35.72. Not available on SE series.



# Ultraviolet Disinfection Parts



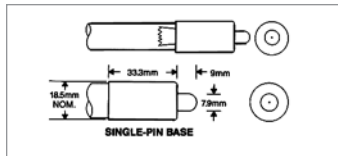
UVM254



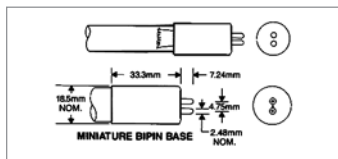
UVS079

Part Number	Description	For Use With Series	List Price
<b>Accessories</b>			
UVM254	UV Dosage meter w/ alarm	UV, UV-W	\$ 2637.69
UVS079	Shut-Off Solenoid 1" FNPT, use w/ UVM254, or UVM257 Specify when ordering	UV, UV-W, UV-SE, UVC	284.22
<b>Maintenance &amp; Repair Parts</b>			
UVP4025	Brass end nut assembly - complete (new)	All models	80.11
UVP5175	Monitor lens kit		160.07
UVP8544	O-ring - Standard for end nut		4.27
UVP1421DWS7	Ballast	UV7	106.68
UVP1421DWS15	Ballast	UV15	106.68
UVP8222	Ballast - (120V, 60 Hz)	UV7SE	106.68
UVP8224	Ballast - (120V, 60Hz)	UV15SE	106.68
UVP8225	Ballast - (120V, 60Hz)	UV15C	131.47
<b>Service Kits - Include bulb, quartz sleeve, o-rings and small tube of silicone.</b>			
Recommended 1 per year.			
UVK07	Includes (1) UVB1805 bulb, (1) UVQS6211 sleeve, (2) UVP8544 o-rings	UV7, UV7SE	159.94
UVK015	Includes (1) UVB8246 bulb, (1) UVQS6608 sleeve, (2) UVP8544 o-rings	All 15 models	213.43
UVK024	Includes (2) UVB8246 bulb, (2) UVQS6608 sleeve, (4) UVP8544 o-rings	All 24 models	421.06

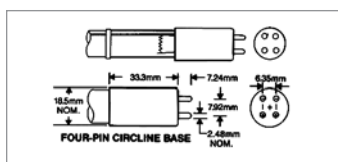
# Ultraviolet Disinfection Parts



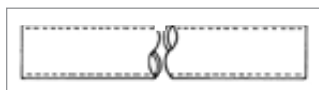
UVB Series - 1 pin each end



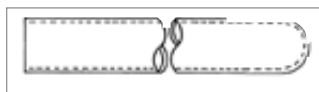
UVB Series - 2 pins each end



UVB Series - 4 pins one end



UVQS Series



UVQS-D Series

Part Number	Bulb Length	Description	For Use With Series	List Price
<b>UV Bulbs</b>				
UVB1805	14"	1 pin each end	UV7, UV7SE	\$ 120.80
UVB1814	27.3"	1 pin each end		140.13
UVB8246	33.2"	1 pin each end	All 15 UVC80 24 28 60 120	140.13
UVB11149	45.88"	1 pin each end		140.13
UVB11550	61.2"	1 pin each end	UVC130 bulb	206.60
UVB2436	17"	2 pins each end		140.13
UVB2457	18"	2 pins each end	DWSW-8	140.13
UVB2793	31.34"	2 pins each end		140.13
UVB4287	11.3"	4 pins one end		140.13
UVB4330	13"	4 pins one end		140.13
UVB4357	14.5"	4 pins one end		140.13
UVB4409	16"	4 pins one end		140.13
UVB4436	17"	4 pins one end		140.13
UVB4450	17.71"	4 pins one end	DWS-8V, SE8V, SL5, SL8, SL8V	140.13
UVB4739	29"	4 pins one end	DWS-12V, SE12V	140.13
UVB4793	31.34"	4 pins one end		140.13
UVB4810	32"	4 pins one end		140.13
UVB4854	33.2"	4 pins one end		140.13
Bulb length is from end to end excluding pin connection.				
<b>Quartz Sleeves - Open Ends (22 mm ID, 24.5mm OD)</b>				
UVQS6211	14.37"	Quartz Sleeve	UV7, UV7SE	42.66
UVQS1483	19"	Quartz Sleeve	DWSW-8	54.48
UVQS6608	32.62"	Quartz Sleeve	All 12 15 24 48 60 80 120	87.98
UVQS1575	62"	Quartz Sleeve	UVC130	173.45
<b>Quartz Sleeves - Domed Ends (22 mm ID, 24.5mm OD)</b>				
UVQS1435D	17"	Dome End Quartz Sleeve		88.95
UVQS476D	19"	Dome End Quartz Sleeve	SL5, SL8, DWS-8V	87.98
UVQS335D	34"	Dome End Quartz Sleeve		87.98



# Chemical Feed Pumps - CHEMTECH



Chem Tech Series 100

## CHEM-TECH Series 100 Features:

- Positive displacement diaphragm metering pump.
- Feed ranges of 15 and 30 gallons per day.
- Operating pressure up to 100 PSI.
- Life-time lubricated, sealed and self-maintaining gear train.
- Four ball valve design for trouble-free operation.
- Strong chemical resistant, flame retardant housing.
- Metal reinforced, short-stroke diaphragm for extra-long life.
- Injection back pressure valve assembly enables injection at an angle and inhibits syphoning.
- Fully adjustable output capacity over operating range.
- Bleed valve assembly aids in priming and relieves pressure from discharge.
- UL, CSA approved for outdoor and indoor applications.
- Manufactured for AGI in an ISO9002 facility.



Chem Tech Series 200

## CHEM-TECH Series 200 Features:

- Heavy duty diaphragm feed pump allows for continuous operation.
- Feed ranges of 15 and 30 gallons per day.
- Operating pressure up to 125 PSI.
- High torque motor-gear coupling ensures start-up un maximum pressure.
- Strong fiber core casing & corrosion resistant rubber & plastic components.
- Metal reinforced, short-stroke diaphragm for extra-long life.
- Oil immersed gear train and heavy duty, fan cooled motor with thermal over load protection.
- All wetted components including diaphragm are interchangeable between all Series 200 models.
- Bleed valve assembly aids in priming and relieves pressure from discharge.
- UL, CSA approved for outdoor and indoor applications.
- Manufactured for AGI in an ISO9002 facility.

### Materials of Construction:

Pump Head	SAN
Diaphragm	Hypalon
Valve Seats	Hypalon
Gaskets	PTFE
Disch. Tubing	Polyethylene
Suct. Tubing	Flexible PVC
Ball Checks	Ceramic
Fittings	PVC



ISO 9002

## CHEM-TECH Motorized Models:

Includes tubing and suction & discharge fittings

Part Number	Series	Max	Output capacity	Volts	Strokes/ Min.	OD Tube Size	Ctn Qty	List Price
		Pressure PSI	@ Max psi GPD					
015-115	100	100	15	115	25	1/2"	1	\$ 770.19
015-230	100	100	15	230	25	1/2"	1	808.92
030-115	100	100	30	115	51	1/2"	1	770.19
030-230	100	100	30	230	51	1/2"	1	808.92
230-115	200	125	30	115	44	1/2"	1	1904.04
230-230	200	125	30	230	44	1/2"	1	1933.42
260-115	200	125	60	115	88	1/2"	1	2024.76

Additional ChemTech models are available, please contact your sales representative.



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In Canada: Phone (800) 268-7570 Fax (905) 629-3204

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4.45

# Chemical Feed Pumps - CHEMTECH Parts



Chem Tech Series 100



Chem Tech Series 200



ISO 9002

## Stocked\* Parts for Series 100 and Series 200 CHEMTECH Pumps

NEW	OLD		
Part Number	Part Number	Description	List Price
25704	228P	Hypalon Diaphragm	\$ 89.89
28800	242P	SAN Head	94.48
28903	A51P	Head Assembly	204.36
38981	682P	Coupling Spring	11.88
41624	A53P	Anti Siphon valve assembly, 1/2" OD	167.30
J20560	278P	Ceramic Ball Check	11.64
J24960	240P	1/2" OD Standard CPLG nut	11.64
J26907	A54P	PVC Bulk Head Fitting, 1/2" OD, BFH not installed	111.02
J27903	237P	PTFE Gasket	12.30
J30515	J30515	PVC Bleed Valve Kit w/Tubing, 1/2" OD	145.85
J37440	638P	Hypalon Valve Seat	8.41
J38985	285P	Valve Spring	11.88
J40117	A50P	Foot Valve and Strainer Assembly, 1/2" OD	93.83
J41540	244P	Valve Housing Discharge, 1/2" OD	50.43
J41548	247P	Valve Housing, Suction, 1/2" OD	51.91
J41658	A52P	PVC Back Check Valve Assembly, 1/2" OD	105.74
J41694	J41694	1 1/2" long PVC Injection Ftg 1/2" OD tube size	150.60
J61516	J61516	Head Mounting Bolts, S.S. 10 x 24 (4 included) with washers	25.50

\* Other Series 100 & 200 parts may be ordered. Contact your sales representative.



Kop Kit®

## KOP Kit® for Series 100 & Series 200 CHEMTECH Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screen, & washers.
- Carded and shrink wrapped for display.

## Stocked KOP Kits for Repairs: Keep-On-Pumping Kits

Part Number	Series	Fits Models	Tubing Size	List Price
KX030XAAAAAXX	100&200	3-100 GPD	1/2" OD	\$ 263.69



# Chemical Feed Pumps - PULSATRON



C Plus Series



ISO 9002

Materials of Construction:	
Pump Head	PVC
Diaphragm	PTFE faced, Hypalon backed
Valve Seats/ O-rings	Hypalon
Tubing	Clear PVC
Ball Checks	Ceramic
Fittings	PVC

## PULSATRON®



### PULSATRON "C" Series Electronic Metering Pump Features:

- Solenoid driven assembly - no motors.
- Reliable metering performance.
- Rated "hot" for continuous use.
- High viscosity capable up to 1000 cps.
- Leak free, sealless liquid end.
- Diaphragms are PTFE-faced, bonded to a composite of Hypalon & fabric layers and reinforced with a metal insert.
- Manual control by on-line adjustable stroke length (fixed stroke length.)
- Agency approved for outdoor and indoor use.
- Water resistant for outdoor applications.
- Highly reliable timing circuit.
- Guided ball check valve system to reduce back flow and enhance outstanding running characteristics.
- Premium standard wetted component material.
- Few moving parts, wall mountable.
- Safe and easy priming with durable leak-free bleed valve assembly.
- Max pressure rating: 80 psi.
- Maximum 30 gallons per day.

### PULSATRON "C PLUS" Series Electronic Metering Pump Features:

- Same as above plus:
- Manual control by on-line **adjustable** stroke length **and** stroke rate.
- Manufactured for AGI in a ISO 9002 facility.

PULSATRON Stocked Electronic Models					Suction & Discharge Tube OD	List Price
Part Number	Series	Pressure PSI	Max GPD	Voltage		
LC54SA-VHC1-XXX	C	80	30	115	3/8"	\$ 834.29
LD54SA-VHC1-xxx	C Plus	80	30	115	3/8"	998.13
LD54SA-VHCA-xxx	C Plus	80	30	115	1/2"	998.13
LD54SB-VHCA-xxx	C Plus	80	30	230	1/2"	983.80

\* Additional Pulsatron models are available. Contact your sales representative.



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# Chemical Feed Pumps - PULSATRON Parts



C Plus Series

**PULSATron®**



ISO 9002



## Stocked\* Parts for PULSATRON C and C Plus Series Pumps

Part Number	Description	List Price
L9906202-00	Replacement C+ Circuit board, 230V	\$ 274.76
L3300H01-PVC	3/8" OD Bleed Valve Assembly	134.59
L3300H03-PVC	1/2" OD Bleed Valve Assembly	134.59
L3101HC1-PVC	3/8" OD C+ Suction valve	62.07
L3101HCA-PVC	1/2" OD Suction Valve	62.07
L3201HC1-PVC	3/8" OD C+ Discharge Valve	62.07
L3201HCA-PVC	1/2" OD C+ Discharge valve	62.07

\* Other Series C and C Plus parts may be ordered. Contact your sales representative.



Kop Kit®

## KOP Kit® for PULSATRON Series Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal,, head screen, & washers.
- Carded and shrink wrapped for display.

## Stocked K.O.P. Kits for Repairs: Keep-On-Pumping Kits

NEW Part Number	Series	Suction Disch.		List Price
		Fits Models	Tubing Size	
K4VHC1	C	30 GPD	3/8" OD	\$ 224.68
K3VHC1	C Plus	12 GPD	3/8" OD	204.61
K3VHCA	C Plus	12 GPD	1/2" OD	204.61
K4VHC1	C Plus	30 GPD	3/8" OD	224.68
K4VHCA	C Plus	30 GPD	1/2" OD	224.68



XP Series

## CHEM-TECH XP Series Peristaltic Pump Features:

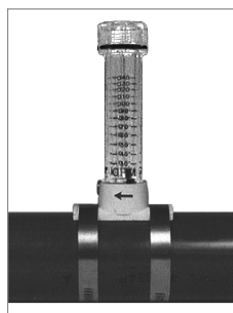
- Peristaltic technology delivers worry-free dosing, easy operations and minimal maintenance.
- Include adjustable, on/off with current interrupter timer.
- All metal drive gears and gear train. Metal gear housing.
- 3 piece roller design.
- Self priming.
- 115 V, 60 Hz

Part Number	Max PSI	GPD	RPM	Ctn Qty	List Price
XP015LAHX	100	15	30	1	\$ 1016.69
XP030LAHX	100	30	30	1	1016.69

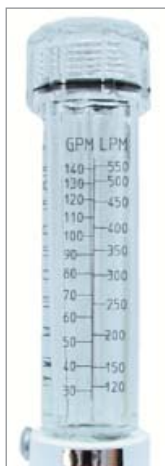
Additional models are available with or without complete tank system.



# Chemical Feed Pumps - Accessories



U88 Series



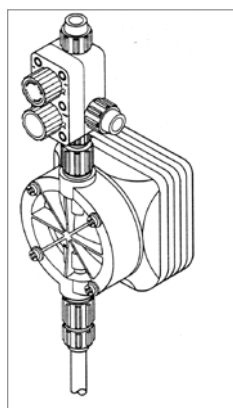
## Flow Meter Features:

- Economical, easy to install, easy to maintain.
- Calibrated in GPM/LPM with easy-to-read numbering.
- Available 1" - 4" pipe size.
- Durable acrylic construction.
- Supplied with 2 clamps and rubber gasket seal.
- Maximum temperature limit = 120 °F, Maximum pressure limit = 120 psi.

ISO 9002



Part Number	Nominal Pipe Size	Range GPM/LPM	List Price
U8800424	1"	5-35 / 20-130	\$ 158.80
U8800438	1 1/4"	10-60 / 40-220	158.80
U8800439	1 1/2"	20-80 / 80-300	158.80
U8800440	2"	30-140 / 120-550	158.80
U8800441	2 1/2"	40-200 / 160-750	158.80
U8800442	3"	80-350 / 300-1300	158.80
U8800443	4"	150-600 / 600-2200	158.80



## DG/5FV De-gas Five Function Valve Features:

- De-Gas - Bypass gasses and fluid during normal pump operation. Allows for the constant removal of gases that would otherwise "air bind" the pump.
- Back Pressure - Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-siphon - Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vacuum.
- Air Bleed - Used during priming to manually remove air from the pump head.
- Discharge Drain - Depressurize pump discharge line without loosening tubing or fittings. Protects the operator from chemical exposure.

## Operation:

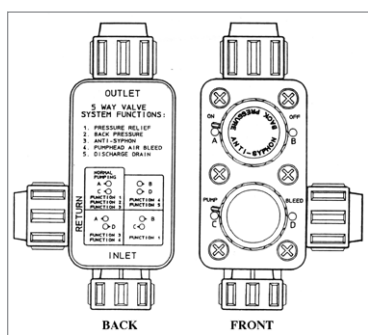
- The functions are selected by setting two, independent dual position selector knobs.
- The DG/5FV' s compatible with most **PULSATRON** and **CHEMTECH** series pumps. Connected to the existing discharge valve the DG/5FV is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the degas, air bleed or drain discharge mode.
- Degas/bypass volume is adjustable, typically 1-10% of pump output.

## Specifications:

Maximum Flow	240 gpd
Minimum Flow	3 gpd
Max Viscosity	1000 cps
Max Pressure	Up to 250 psi

## Materials of Construction:

Valve Body	PVD
Diaphragm	PTFE faced Hypalon
O-rings	Viton or Hypalon
Hardware	188 Stainless steel (recessed)



L385 Series

Part Number	Description	O-rings	Valve Body	Connection	List Price
L385KH03-PVD	DG/5FV De-Gas Valve	Hypalon	PVD	1/2" OD tubing	\$ 433.84
L385KV03-PVD	DG/5FV De-Gas Valve	Viton	PVD	1/2" OD tubing	433.84



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# Chemical Feed Pumps - Accessories



ISO 9002

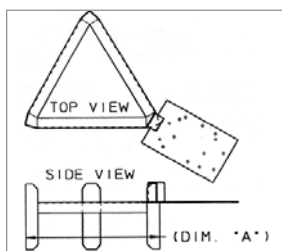


Solution Tanks

## Solution Tank Features:

- High density polyethylene
- 5 gallon marked increments.
- Add "AT" to fitting part number for factory installed bulkhead fittings.

Part Number	Description	List Price
40375	15 Gallon liner with cover 25" x 14 1/2"	\$ 222.71
40360	30 Gallon liner with cover 32" x 18 1/2" Brine Tank	279.99
J40366	50 Gallon liner with rigid cover 42 1/2" x 18 1/2" (b) 23 (t)	522.03
26859	1/2" Bulk Head Fitting (AT) installed at factory	50.40
26860	3/8" Bulk Head Fitting (AT) installed at factory	50.40



## Solution Tank Stand for CHEMTECH Series Features:

- Tri-pod stand with pump mounting shelf.
- 12 gauge, 304 stainless steel.

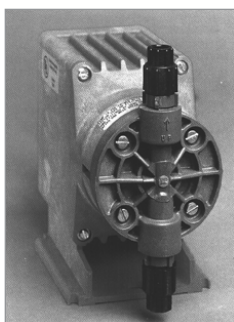
Part Number	Description	Dim. "A"	List Price
39320	15 Gallon with pump mounting shelf	14.13"	\$ 397.60
39322	30-40 Gallon with pump mounting shelf	18.63"	561.19
39321	55 Gallon with pump mounting shelf	18.13"	719.21



# Chemical Feed Pumps - Uni-Dose™



U1 and U0 Series



## Uni-Dose™ Electronic Metering Pump Features:



- Available with single or dual output control for easy accurate adjustment over operating range.
- Turn down ratio up to 100:1.
- Maximum output from 6 to 30 gallons per day at 80 psi.
- Virtually silent, ideal for household applications.
- Totally enclosed, chemical resistant housings provide superior protection in either indoor or outdoor applications.
- Reliable solid state electronics are fully encapsulated to ensure long life.
- Solenoid design provides power without fans, open housings, motors or gears.
- Safe inherent pressure relief stops pump if system back pressure exceeds the pump strength.
- Thermostatic protection prevents damage from overheating.
- Four self-cleaning Uni-valves designed to maintain prime while eliminating scaling and clogging associated with ball valves.
- Each pump comes complete with an injection check/back pressure valve, a foot valve and strainer, PVC suction tubing, UV resistant PE discharge tubing and tubing straightener.
- Heads and fittings constructed of high strength PVC.
- 1.4 AMPS maximum current @ 120 VAC.
- Made in USA.

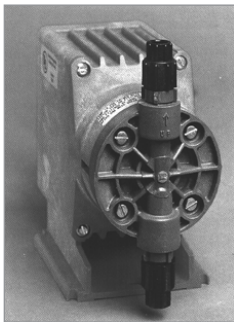


Part Number	Description	Max. GPD	Max. PSI	List Price
U01#-281TT	U Series Metering Pump	6	80	\$ 558.45
U02#-281TT	U Series Metering Pump	12	80	558.45
U03#-281TT	U Series Metering Pump	24	80	558.45
U04#-281TT	U Series Metering Pump	30	80	558.45
U12#-281TT	U Series Metering Pump	12	80	602.32
U13#-281TT	U Series Metering Pump	24	80	602.32
U14#-281TT	U Series Metering Pump	30	80	602.32
# Insert voltage code/plug type before hyphen: 1= 120 VAC US plug 2= 240 VAC US plug (non export)				
All LMI pumps are drop shipped direct from factory.				

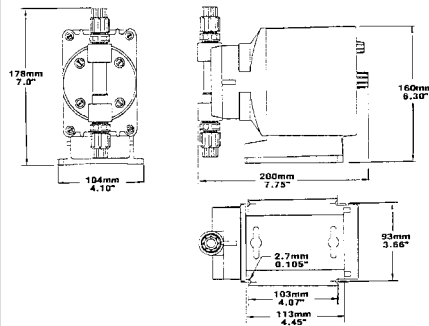
# Chemical Feed Pumps - Uni-Dose™



U1 and U0 Series



## Dimensions:



## Control and Output Code

### Manual Control

Speed (stroking frequency) fixed and stroke length manually adjustable

U01 ..... 6.0 GPD (0.95 L/H) ..... .80 PSI (5.5 Bar)

U02 ..... 12.0 GPD (1.9 L/H) ..... .80 PSI (5.5 Bar)

U03 ..... 24.0 GPD (3.8 L/H) ..... .80 PSI (5.5 Bar)

U04 ..... 30.0 GPD (4.8 L/H) ..... .80 PSI (5.5 Bar)

### Dual Manual Control

Speed (stroking frequency) fixed and stroke length manually adjustable

U12 ..... 12.0 GPD (1.9 L/H) ..... .80 PSI (5.5 Bar)

U13 ..... 24.0 GPD (3.8 L/H) ..... .80 PSI (5.5 Bar)

U14 ..... 30.0 GPD (4.8 L/H) ..... .80 PSI (5.5 Bar)

## Liquid End Materials:

PVC head and fittings, Flexiprene® Liquifram and Uni-Valves.

Model	GPD	GPH	Liters Per Hr.	ml/cc per Min.	ml/cc per Stroke	Strokes per Min.
	MIN- MAX	MIN- MAX	MIN - MAX	MIN- MAX	MIN- MAX	MIN- MAX
U01	1.2 - 6.0	0.05 - 0.25	0.19 - 0.95	3.2 - 16	0.13 - 0.63	Fixed - 25
U02	2.4 - 12.0	0.10 - 0.5	0.38 - 1.9	6.3 - 32	0.13 - 0.63	Fixed - 50
U03	4.8 - 24.0	0.20 - 1.0	0.76 - 3.8	12.7 - 63	0.13 - 0.63	Fixed - 100
U04	6.0 - 30.0	0.25 - 1.25	0.95 - 4.8	15.8 - 79	0.16 - 0.79	Fixed - 100
U12	0.12 - 12.0	0.005 - 0.5	0.02 - 1.9	0.3 - 32	0.13 - 0.63	2.5 - 50
U13	0.24 - 24.0	0.01 - 1.0	0.04 - 3.8	0.6 - 63	0.13 - 0.63	5 - 100
U14	0.30 - 30.0	0.01 - 1.25	0.05 - 4.8	0.8 - 79	0.16 - 0.79	5 - 100

Recommended minimum stroke length (adjustable) is 20%