



# Filters & Housings

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# DUFF<sup>—</sup>co.

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MULTIFAMILY HOUSING SUPPLIES



CATALOG

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## DWC OFFERS A VARIETY OF FILTER HOUSINGS

### STANDARD HOUSINGS



Thick walls and multiple ribs make these housings ideal for industrial applications. The clean look, (FDA grade plastic) and light weight also makes them preferred in residential and commercial uses. Their polypropylene construction has excellent chemical resistance for use with most acids, alcohol, ammonia, oils, plating solutions, beverages and water. Mounting bracket cap with four screw bosses for rigid mounting installations. 3/4" FIP ports  
 MAXIMUM PRESSURE: 125 psi  
 MAXIMUM TEMPERATURE: 125°F

HOUSING COLOR	10"	20"
Blue	9309	38976
Clear	38975	—

### APPLICATIONS

Photographic Equipment	Plating Recirculating Baths
Std. DI Pre/Post Filtration	Lab Equipment
Vending Machines	Food Service
Main Line Residential Water	Process Fluids
Safety Equipment	Reverse Osmosis
Pre/Post Water Softeners	Hospital Equipment
Chillers	Laser Cooling Equipment

VIH housings incorporate the same rugged design and application features as standard 3/4" NPT housings. The internal VIH allows both inlet and outlet ports to be shut off internally simultaneously with a half turn of the handle. This eliminates the need for external shut-off valves, easing installation and cartridge change out. Radial sealing O-rings and sealing surfaces are continuously cleaned each time the valve is used, ensuring leak proof operation.  
 MAXIMUM PRESSURE: 125 psi  
 MAXIMUM TEMPERATURE: 125°F

HOUSING COLOR	10"	20"
Blue	121926	71520
Clear	38977	—

### BLUE VALVE IN-HEAD HOUSINGS



CAUTION: Clear housing may crack with time, causing failure and leakage if exposed to organic solvents such as those found in aerosol sprays for cleaning products and insecticides.

# DUFF

**HAS CARTRIDGES AND HOUSINGS BY MAJOR MANUFACTURERS INCLUDING:**

**PENTEK**

**DURABLE MANUFACTURING**

**ARIES FILTER**



### BIG BLUE HOUSINGS

Big Blue Housings are manufactured of reinforced FDA grade polypropylene in both 10" and 20" lengths. The specifically designed High Flow Polypropylene (HFPP) cap is available with either a 3/4", 1" or 1-1/2" NPT port. Four bosses are provided in each cap for mounting to either aluminum or 304 stainless steel "L" brackets. Big Blue Housings are ideal substitutes for costly low pressure stainless steel vessels. The larger body size allows for extra large cartridges and high flow rates. Polypropylene construction offers excellent chemical compatibility with water, beverages and syrups. Available without pressure relief valve.  
 MAXIMUM PRESSURE: 10"=100 psi 20"=90 psi  
 MAXIMUM TEMPERATURE: 100°F



HOUSING COLOR	PORT SIZE	LENGTH	P/N
Blue	3/4"	10"	146450
Blue	1"	10"	24484
Blue	1-1/2"	10"	23534
Blue	3/4"	20"	126867
Blue	1"	20"	43439
Blue	1-1/2"	20"	43378
Clear	1"	10"	126378
Clear	1"	20"	—

## MORE FILTER HOUSINGS TO CHOOSE FROM!

### Hot/High Temperature



#### APPLICATIONS

Hot Liquids  
Salt Water Fisheries  
Hot Water  
Toluene / Xylene  
Hydraulic Oils  
Alcohols  
Vegetable Oils  
Gasoline  
Photographic

Our hot/high temperature filter housings are manufactured from glass reinforced nylon. Standard sealing and closure are achieved through the use of a 241 silicone O-ring. Housings are available in two lengths: 10" and 20". One cap style is available (standard cap, no pressure relief, no mounting bosses). Extra thick glass reinforced nylon construction allow these housings to be used on a wide range of temperatures. In addition, these housings are excellent for industrial applications involving organic solvent\*, sea water, alcohol, petroleum and vegetable oils. High temperature rating along with the excellent chemical compatibility makes these filter housings an economical alternative to stainless and carbon steel vessels. \* Avoid use with Ketones.

MAXIMUM PRESSURE: 125 psi  
MAXIMUM TEMPERATURE: 165°F

HOUSING COLOR	PORT SIZE	LENGTH	P/N
Red	3/4"	10"	9330
Red	3/4"	20"	47089

### Slim Line Housings

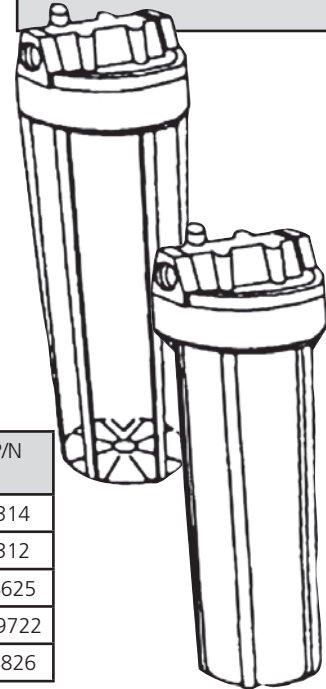
Slim Line Housings are sealed with a top seated 237 Buna-N O-ring and Acme square thread closure. All caps come with four mounting bosses for rigid "L" bracket mounting. Slim Lines incorporate the same application and chemical resistance features as the standard 3/4" housings, but with a slimmer and shorter external design. Housings are designed to use the same cartridges as the 3/4" housings, but are designed for lower flow rates and conservation of space. Smaller overall diameter and port sizes make them ideal for multiple function applications when mounted in a series. Smaller vessels with the same capacity make them an economical choice.

MAXIMUM PRESSURE: 125 psi  
MAXIMUM TEMPERATURE: 125°F

HOUSING COLOR	PORT SIZE	LENGTH	P/N
Clear	3/8"	5"	9314
Blue	3/8"	5"	9312
Clear	3/8"	10"	44625
Blue (w/o PR)	3/8"	10"	119722
Blue	3/8"	10"	48826

### APPLICATIONS

Low Flow OEM Equipment  
Recreational Vehicles  
Food Service Equipment  
Residential  
RO Systems  
Kidney Dialysis Equipment  
Humidifying Systems  
Temperature Control Valves



**PENTEK**  
Pentair Water

### Natural Polypropylene Housings

All natural, pure polypropylene filter housings can be used in an extremely wide variety of applications where purity, quality, minimal extractables and filtration economy are required. After your expensive cartridge, the last thing your liquid or gas is in contact with before going downstream is you filter housing. Use these all natural housings as added insurance against additional contamination.

MAXIMUM PRESSURE: 100 psi  
MAXIMUM TEMPERATURE: 125°F



### APPLICATIONS

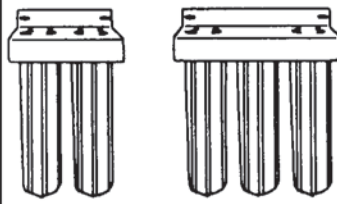
Deionized and reagent grade water  
Electronic grade chemicals  
Reagent grade chemical  
Pharmaceutical grade solvents  
Reaction solvents for cosmetic, pharmaceutical for polyester production  
Most gases; nitrogen, argon ammonia  
Freons  
Electronic etching solutions  
Magnetic coatings (tape, disc or card)  
Reverse osmosis or ultrafiltration final filters  
Laboratory equipment



# DUFFGUIDE:

SEE PAGES XXX FOR HOUSINGS BY HARMSCO, AQUA-PURE, EVERPURE AND HAYWARD

**PLASTIC FILTER HOUSINGS**



**MULTI-CARTRIDGE FILTER SYSTEMS**

Multi-cartridge filtration systems contain multiple filter housings which are mounted in series. These systems offer a wide variety of filtration capabilities, depending upon your filter cartridge choice. They can use standard cartridges in 10" or 20" lengths, or large diameter cartridges. The large body size allows for greater cartridge capacities and higher flow rates than are possible with standard size systems. Flow rates range up to 40 GPM, with pressure drops as low as 1 psi. The all-polypropylene construction offers excellent compatibility with water, beverages, syrups and a broad range of chemicals.

**A P P L I C A T I O N S**

<b>HOME</b>	<b>COMMERCIAL</b>	<b>INDUSTRIAL</b>
Wholesale Filtration to reduce: Rust, Iron, Sediment, Taste/Odor, Chlorine	Deionization, Coalescing Combination, Sediment/Rust Taste/Odor, Duplexing	Step-down filtration, Circulating Baths Plating, Batch treatments, Color removal Organic reduction, Cooling towers Pre R.O. Filtration, Duplexing

**H O U S I N G   G U I D E**

**5" HOUSINGS - 4 7/8" CARTRIDGES**

DESCRIPTION	INLET/OUTLET	FLOW RATE (GPM)	FIG. NO.	PRICE
Blue*	3/8"	1-5	.9312	
Clear*	3/8"	1-5	.9314	

**10" HOUSINGS - 9 3/4" TO 9 7/8" CARTRIDGES**

DESCRIPTION	INLET/OUTLET	FLOW RATE (GPM)	FIG. NO.	PRICE
Slim Line Blue*	3/8"	1-7.5	48826	
Slim Line Clear *	3/8"	1-7.5	44625	
Blue *	3/4"	1-10	9309	
Clear*	3/4"	1-10	38975	
Red Hot	3/4"	1-10	9330	
Clear Valve-In-Head*	3/4"	1-10	38977	
Big Blue	1"	1-20	24484	
Big Blue*	1 1/2"	1-25	23534	
Natural Polypro	3/4"	1-10	—	

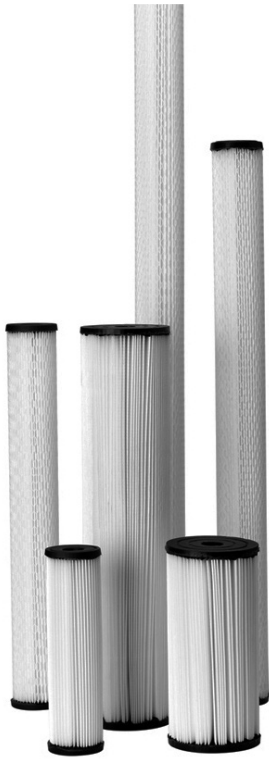


**20" HOUSINGS - 20 to 20 1/8" CARTRIDGES**

DESCRIPTION	INLET/OUTLET	FLOW RATE (GPM)	FIG. NO.	PRICE
Blue*	3/4"	1-20	38976	
Red Hot	3/4"	1-20	47089	
Big Blue*	1"	1-40	43439	
Big Blue*	1 1/2"	1-50	45378	
Natural Polypro	3/4"	1-20	—	

\*Indicates pressure relief/bleed button on inlet side of cap. These items can be special ordered without the button.

## SEDIMENT CARTRIDGES

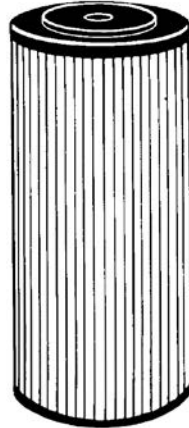


**The SI Series Paper Cartridges** are designed for general water filtration purposes. Highly effective, yet economical, these cartridges remove sediment particles down to nominal 20 microns in size. The pleated construction of corrugated media, with over 4 sq. ft. per standard 9-3/4" cartridge, provides increased surface area and strength which results in extended life. An external netted sheath provides extra support to protect against system pulsation. End caps are fused to the cellulose media preventing bypass and forming a gasket sealing area.

SIZE	Fig No
10" x 2-1/2"	8322
20" x 2-1/2"	60290
10" x 4-1/2"	—
20" x 4-1/2"	51239

**Pleated Cellulose Polyester Cartridges** are made of a durable non-woven reusable polyester fabric which allows for several uses. The standard 9-3/4" length has more than four square feet, (sixteen square feet for the BBS models) of fabric media which has been pleated to maximize its dirt holding capacity and extend the time period between changes. The material is compatible with many chemicals, which makes them a good choice for light industrial water filtration. The synthetic construction makes them ideal for well water applications since they cannot be attacked by bacteria.

*NOTE: Reuse of cartridges is not recommended for drinking water applications.*



Size	Micron	Fig. No.
20 x 2-1/2	1 mic	244791
20 x 2-1/2	5 mic	--
20 x 2-1/2	20 mic	--
20 x 2-1/2	50 mic	--
10 x 4-1/2	1 mic	--
10 x 4-1/2	5 mic	47203
10 x 4-1/2	20 mic	--
10 x 4-1/2	50 mic	--
10 x 2-1/2	1 mic	49700
10 x 2-1/2	5 mic	48801
10 x 2-1/2	20 mic	--
10 x 2-1/2	50 mic	--

**The P Series Spun Polypropylene Cartridges** are made of 100% pure polypropylene fibers. The fibers have been carefully spun together to form a true gradient density from outer to inner surfaces. The coreless strength of the cartridge is achieved by sintering the many fibers into a solid matrix. Designed for purity, corrosion and chemical resistance with sizes (4-7/8" through 30") to handle most all industrial and commercial process fluids, these cartridges are still economical enough for home water use.



Size	Micron	Fig. No.
5 x 2-1/2	5 mic	51659
5 x 2-1/2	30 mic	51059
10 x 2-1/2	1 mic	59658
10 x 2-1/2	5 mic	23535
20 x 2-1/2	1 mic	76463
20 x 2-1/2	5 mic	23536
20 x 2-1/2	25 mic	49228



**The WP Series String Wound Cartridge** offers a wide chemical resistancy spectrum. They are compatible with most acids, alkalies, corrosive fluids, and gases. Polypropylene cord is wound around a polypropylene core in a precise pattern, ensuring a high efficiency rating as well as a high dirt loading capacity.

	Fig. No.
10" X 2.5" 1 mic	23539
10" X 2.5" 5 mic	44393
10" X 2.5" 5 mic HOT	44396
10" X 2.5" 10 mic	63676
10" X 2.5" 20 mic	49317
10" X 2.5" 30 mic	44394
10" X 2.5" 30 mic HOT	44397
10" X 2.5" 50 mic	47091
<b>Separator</b>	
10" X 4.5" 1 mic	62109
10" X 4.5" 5 mic	62106
10" X 4.5" 10 mic	62110
10" X 4.5" 20 mic	58066
10" X 4.5" 25 mic	62111
10" X 4.5" 30 mic	58067
10" X 4.5" 50 mic	50531
<b>Separator</b>	
20" X 2.5" 1 mic	43537
20" X 2.5" 5 mic	44399
20" X 2.5" 20 mic	49340
20" X 2.5" 30 mic	44400
<b>Separator</b>	
20" X 4.5" 5 mic	58068
20" X 4.5" 30 mic	73652



**GAC Series Granular Carbon Cartridges** are designed for effective reduction of unwanted tastes and odors such as chlorine. They are engineered to allow water to enter the bottom and filter through the entire bed of carbon before exiting through the top. This allows the water to be in contact with the carbon for a maximum length of time, ensuring maximum adsorption. An internal expansion pad maintains a tight compact column, minimizing channeling or bypass. A nominal 20 micron post filter is incorporated to reduce carbon fines and other suspended particles. Cannot be coupled.

Fig. No.	Size
43556	5"X2.5"
23532	10"X2.5"
48695	10"X2.5"
43673	10"X4.5"
23533	20"X2.5"
44956	20"X4.5"



**RFC Series Radial Flow Carbon Cartridges** are designed for both liquid and gas filtration. For liquids, they are designed primarily for reducing organics and particulate contaminants for plating, acid, alkaline, and hydrocarbon solutions. The RFC can also be used for chlorine removal at low flow rates. For gas filtration, they are designed to remove chlorine gases, organics such as oil mist, water vapor and fine dust and scale particles. The activated carbon is a highly effective adsorption bed, while the inner layers remove particles over nominal 7 microns in size.

Fig No	Size
44865	10"X4.5"
52866	20"X2.5"
61207	20"X4.5"



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**ARE**  
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## TASTE AND ODOR / SEDIMENT CARTRIDGES



**The CC Series Coconut Carbon Cartridges** contain coconut shell-based activated carbon which is highly effective at reducing certain organic chemicals, such as, EDB, TCE, and THMs in addition to removing chlorine. A nominal 20 micron post filter is incorporated to reduce carbon fines and other suspended particles. Cartridges are engineered to allow water to enter the bottom and filter through the entire bed of carbon before exiting throughout the top, ensuring maximum adsorption. Cannot be coupled.

Fig. No.	Size
47024	10"X2.5"
73697	10"X4.5"



**The CI and C2 Series Carbon Impregnated Cellulose Cartridges** are constructed from a carbon impregnated cellulose media, combining the carbon and cellulose media in this fashion creates a dual purpose filter. In addition to filtering out fine sediment particles, it helps to reduce the unwanted tastes, odors, and chlorine often found in tap water and many industrial liquids. They are also excellent polishing filters when used in process or closed-loop streams.

Size	Micron	Fig. No.
5 x 2-1/2	5 mic	9326
10 x 2-1/2	10 mic	2925
10 x 4-1/2	10 mic	92425
20 x 4-1/2	5 mic	--
20 x 4-1/2	10 mic	51473



**The CBC Series Carbon Block Cartridges** are designed to reduce VOCs, chlorine, color bodies, as well as remove fine sediment from residential, commercial, and industrial liquids. The powdered activated carbon briquette provides high chemical adsorption, while the sediment filter eliminates unwanted particles down to .5 nominal micron. The CBC's make excellent polishing filter or prefilters for many applications.

FIG. NO	SIZE
36477	10"X2.5"
49775	10"X4.5"
129966	20"X2.5"
130303	20"X4.5"

## DUFF CARRIES CARTRIDGES AND HOUSINGS BY MAJOR MANUFACTURERS INCLUDING

**AMETEK®**

**ARIES  
FILTERWORKS**

**LFP HARMSCO®  
FILTRATION PRODUCTS**

**PENTEK®  
Pentair Water**

**CARTRIDGE GUIDE**

**4 7/8" x 2 1/2" CARTRIDGES**

**SEDIMENT**

DESCRIPTION	MICRON	FIG. NO.	PRICE
<i>P Series</i> Spun Polypropylene Cartridge	5	51659	
	30	51059	
<i>R Series</i> Reusable Paper Cartridge	30	9323	

**TASTE & ODOR**

<i>GAC Series</i> Granular Carbon Cartridge		43556	
<i>C2 Series</i> Carbon Impregnated Cellulose Cartridge	5	9326	
<i>CBC Series</i> Carbon Block Cartridge	.5	63080	

**9 3/4" CARTRIDGES**

**SEDIMENT**

<i>HFCP Series</i> Pleated Cellulose Polyester Cartridge	1		
	5		
	10		
<i>CP Series</i> Pleated Cellulose Polyester Cartridge	1	49700	
	5	48801	
	10		
<i>WC255 Series</i> High Temperature Cartridge	1	44395	
	5	44396	
	30	44397	
<i>P Series</i> Spun Polypropylene Cartridge	1	59658	
	5	23535	
	25	43440	
<i>R Series</i> Reusable Paper Cartridge	30	48809	
	50	48810	
<i>SI Series</i> Paper Cartridge		9322	
<i>CRE-1 Series</i> Ceramic Reusable Microstraining Cartridge		46944	
<i>RBCM Series</i> Resin Bonded Cartridge	.8		
	1		
	5		
	10		
	25		
<i>WP Series</i> String Wound Cartridge	1	23539	
	5	44393	
	10	63676	
	20	49317	
	30	44394	
	50	47091	

**TASTE & ODOR**

<i>GAC Series</i> Granular Carbon Cartridge		23532	
<i>CC Series</i> Coconut Carbon Cartridge		47024	
<i>TSGAC Series</i> Phosphate and Carbon Multipurpose Multi-Media Cartridge		76404	
<i>RFC Series</i> Radial Flow Carbon Cartridge		49381	
<i>CI Series</i> Carbon Impregnated Cellulose Cartridge		9325	
<i>CBC Series</i> Carbon Block Cartridge		36477	
<i>CBR2 Series</i> Carbon Briquet/Lead Reduction Cartridge		49382	

**20" CARTRIDGES**

**SEDIMENT**

DESCRIPTION	MICRON	FIG. NO.	PRICE
<i>SI Series</i> Paper Cartridge	20	60290	
<i>P Series</i> Spun Polypropylene Cartridge	1	76463	
	5	23536	
	25	49228	
<i>R Series</i> Reusable Paper Cartridge	30		
<i>RBCM Series</i> Resin Bonded Cartridge	.8		
<i>WP Series</i> String Wound Cartridge	1		
	5		
	10		
	25		
	1	43537	
	5	44399	
	20	49340	
	30	44400	

**TASTE & ODOR**

<i>GAC Series</i> Granular Carbon Cartridge		33533	
<i>CC Series</i> Coconut Carbon Cartridge		83214	
<i>RFC Series</i> Radial Flow Carbon Cartridge		52866	
<i>CBC Series</i> Carbon Block Cartridge			

**9 3/4" x 4 1/2" FOR BIG BLUE HOUSINGS**

**SEDIMENT**

<i>CP Series</i> Pleated Cellulose Polyester Cartridge	5	47023	
	30	47095	
	50	47096	
<i>WP Series</i> String Wound Cartridge	.5	51058	
	1	62109	
	5	62106	
	10	62110	
	25	62111	
	30	58067	
	50	50531	

**TASTE & ODOR**

<i>GAC Series</i> Granular Carbon Cartridge		23533	
<i>CBC Series</i> Carbon Block Cartridge		49775	
<i>RFC Series</i> Radial Flow Carbon Cartridge		44865	

**20" x 4 1/2" FOR BIG BLUE HOUSINGS**

**SEDIMENT**

<i>SI Series</i> Paper Cartridge	20	51239	
<i>CP Series</i> Pleated Cellulose Polyester Cartridge	5		
<i>R Series</i> Reusable Cartridge	30		
<i>WP Series</i> String Wound Cartridge	5	58068	

**TASTE & ODOR**

<i>NCP Series</i> Non Cellulose Pleated Cartridge		51473	
<i>GAC Series</i> Granular Carbon Cartridge		44956	
<i>CBC Series</i> Carbon Block Cartridge		-	
<i>RFC Series</i> Radial Flow Carbon Cartridge		61207	



## SPECIALTY FILTERS AND CARTRIDGES



**The Nice-N-Icy Filter** is designed to remove unpleasant tastes and odors as well as sediment to produce cleaner, clearer, better tasting ice cubes and ice water. This granular activated carbon filter is easily installed on the water line to an automatic icemaker or water dispensing system.

Size	Description	Port Size	Fig. No.
2 x 6	Granulated carbon (generic)	1/4" FPT	52359
2 x 10	Granulated carbon (generic)	1/4" FPT	55624
2 x 10	Granulated carbon (generic)	1/4" FPT	161549
2 x 10	Granulated carbon Watts/Flomatic	1/4" John Guest	199902



**Hard Water/Iron Removal** For those situations where you cannot install a large softener or filter, we offer cartridge filters to soften your water or to remove iron. These cartridges are filled with cation resin for softening or Manganese Greensand for iron removal.

Size	Media	Fig. No.
<b>SOFTENING</b>		
9-3/4" x 2-1/2"	Cation Resin	71472
20" x 2-1/2"	Cation Resin	
20" x 4-1/2"	Cation Resin	
<b>IRON REMOVAL</b>		
9-3/4" x 2-1/2"	Manganese Greensand	71594
20" x 2-1/2"	Manganese Greensand	47952
20" x 4-1/2"	Manganese Greensand	49811



**The PCC-1 Series Polyphosphate Cartridge** contains a pure food grade phosphate that dissolves in water at a slow, controlled rate and imparts no taste or odor. The phosphate is highly effective at controlling rust and corrosion by forming a protective coating on the inside surface of piping and water heaters. Also, a small amount of soluble iron in a water supply may be treated, minimizing red water and iron staining. For use in standard 10" housing.

NOTE: This cartridge will not fit the SLIM LINE housings.

Fig. No.	Description
28989	Generic
50724	Pentek



### MIXED BED DEIONIZATION CARTRIDGES

Due to the requirements of deionized water in many industries, we offer the PCF-Series mixed bed deionization cartridges. The FDA grade resin has been subjected to additional post-production steps to minimize the TOC (Total Organic Carbon) level. These high-capacity, semiconductor grade resin cartridges are ideal for use in pharmaceuticals, medical, laboratory, cosmetics, and circuit board printing applications. They may also be used in applications where water comes in contact with living organisms, such as fish breeding and potable water applications, and where low TOC and TDS (Total Dissolved Solids) levels are required.

Fig. No.	Description
—	9-3/4" x 2-1/2"
52300	20" x 2-1/2"
52301	20" x 4-1/2"



Fits into standard housings and can be filled with your filtration media of choice, custom to your needs. When exhausted, simply discard old media and refill with new.

EMPTY REFILLABLE CARTRIDGES	
Size	Fig. No.
2-1/2 x 20	190533
4-1/2 x 20	243448
4-1/2 x 10	102598

# DUFF DELIVERS



ACCESSORIES



RO BOOSTER PUMP

Fig. No.
45349

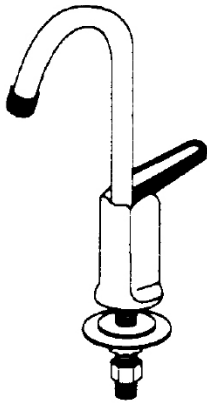
FOR COMPLETE HOUSEHOLD REVERSE OSMOSIS SYSTEMS AND ACCESSORIES, SEE PAGE 568



TOMLINSON DESIGNER FAUCET

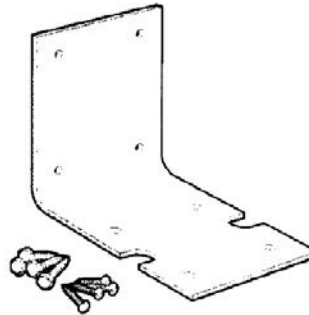


Description	Fig. No.
Polished Chrome	228455
Satin Nickel	228472
Brushed Stainless	228476
Antique Bronze	228473



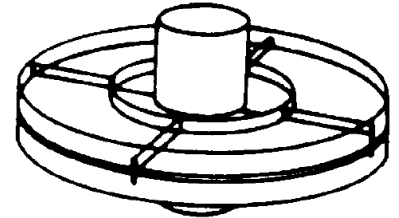
TOUCHFLOW FAUCET

Description	Fig. No.
Std. Reach Chrome	23543
Long Reach Chrome	44091
Long Reach W/air gap - Br. Nickel	144861
Long Reach W/air gap - Chrome	49185



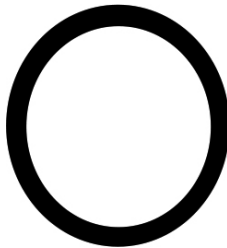
BRACKET KIT

Description	Fig. No.
Standard Housing 3/4"	48418
Big Blue (10' or 20")	25968
Slimline (3/8"-1/2")	44977
3 Housing CCF & RO	44976



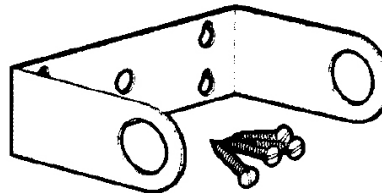
CARTRIDGE COUPLER

Description	Fig. No.
Standard Cartridge	44866
Big Blue Cartridge	47072



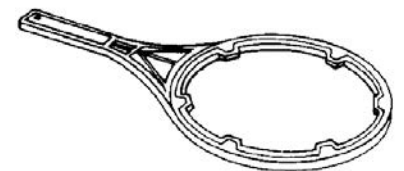
BUNA O-RINGS

Description	Fig. No.
18" or 20" Housing	9329
Big Blue Housing	44970
Slimline (3/8"-1/2")	44978



3/4" U-BRACKET KIT

Description	Fig. No.
U-Bracket Kit — 3/4"	9328



WRENCH

Description	Fig. No.
Standard Housing 3/4"	23538
Big Blue Housing	25807
Slimline (3/8"-1/2")	47073
Big Blue Wrench	58904



## DUFF WATER CONDITIONING Products for Quality Water

The DWC Reverse Osmosis Series, is one of the most convenient and economical methods of reducing the unwanted contaminants that are in drinking water.



### FEATURES:

- "Quick-Change" proprietary replacement cartridges
- Standard Warranty
- 50 to 75 gallon per day output options
- 3.2 gallon NSF listed storage tank
- All polytubing is color coded for easy install
- Water feed install kit, including ball valve shut-off and quick change sanitary style cartridges
- 5 Stage R.O. filtration system
- FDA compliant materials
- Attractive ceramic disc faucet
- Booster pump option available for low psi

Specifications	PRO - Q - 50	PRO-Q-50P
Booster Pump with Unit	No	Yes
Membrane Production	75 +/- 7 gpd	75 +/- 7 gpd
Membrane T.D.S. Reduction	95% Minimum	95% Minimum
Water Pressure	40- 125 psi	40 - 125 psi
T.D.S.	less then 2,000 ppm	less then 2,000 ppm
Temperature	40- 125° F	40- 125° F
pH Levels	5- 10	5-10
Hardness Levels	less then 10 gpg	less then 10 gpg
Manganese Levels	less then .05 ppm	less then .05 ppm
Hydrogen Sulfide Levels	None	None
Chlorine / Chloramine Levels	None	None
Bacteria Levels	Water source must be potable	Water source must be potable

### DIMENSIONS AND MAX FLOW

Model#	Faucet Finish	Dimensions HxWxD	Pipe Size	Max. Flow
PRO-Q-50	Polished Chrome	15x21 x 3.5	1/4"	75 gpd
PRO-Q-50P	Polished Chrome	15x21 x 3.5	1/4"	75 gpd

### ACCESSORIES

Order#	Description
4P -1235	Replacement Filter Kit for PRO-Q-75
QME - 75 - W	Replacement Membrane for PRO-Q-75
FR - 575T	Capillary Flow Restrictor 75 gal.

### DESIGNER FAUCET UPGRADES

Order#	Description	
1019299	Polished Chrome	finish #1
1019301	Satin Nickel	finish #2
1019303	Arctic White	finish #3
Non-Stock	Light Biscuit	finish #4
Non-Stock	Polished Brass	finish #5
1019311	Antique Bronze	finish #6
Non-Stock	Black	finish #7
1020518	Brushed Stainless	finish #8

NOTES: Call for Cost and availability on Faucet Upgrades.



### PRO-Q-75P

50 GPD option with pump also available

**Standard supply style cartridge options also available!**

All DUFF Units are Proudly Made in the USA and meet WQA standards



STAINLESS STEEL HOUSINGS AND MULTI-CARTRIDGE VESSELS

**OVERVIEW**

- Ideal for commercial and residential applications

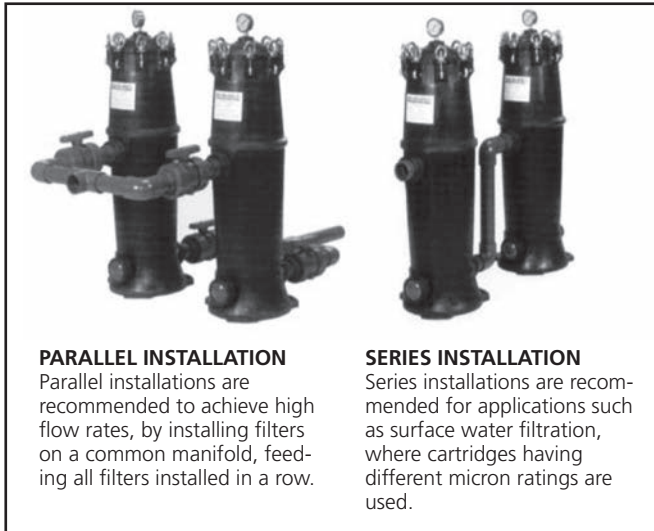
**TYPICAL APPLICATIONS**

- Pharmaceutical
- Food Products
- Photographic
- Water
- Compressed Air
- Liquid Fuels
- Paints
- Petrochemicals
- Schools
- Restaurants
- Farms
- Institutions



**DUFF WATER CONDITIONING**  
Products for Quality Water

**BIG BUBBA NON-METALLIC JUMBO CARTRIDGE HOUSINGS**



**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.

Ideal thermoplastic housing for high flow rates or chemical compatibility issues. Rugged construction, glass reinforced polypropylene. Full line of proprietary cartridges with double O-ring seals for superior sealing. Two outlets to allow for more flexible installations.



DESCRIPTION	Fig No.
Big Bubba Housing	233820
Big Bubba Lid O-Ring	242311
Big Bubba Cartridge	311904
Big BubbaLid	242309

**DUFF TIP:**



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

Highly efficient filter cartridges made of pleated Polyester-Plus™ filter media.  
The industry's largest surface area.



### FEATURES

- Pleated design for more surface area
- FDA approved materials - NSF 61 certified
- Engineered media for superior performance
- Cleanable and reusable in most applications and micron sizes
- Thermally bonded end caps to ensure better sealing
- High Temperature cartridges available (not NSF 61 Listed)
- Color coded end caps for easy micron identification
- Full product line - largest selection of micron ratings
- Designed for HIF, BC, HMC and FSSS Filter Housings
- Industrial Grade

### APPLICATIONS

- Industrial Water Filtration Industrial Coolant Filtration
- Cooling Tower Filtration
- Chill Water Loop Filtration
- Food & Beverage Filtration
- Marine / Aquatic Filtration
- Commercial/Residential Drinking Water Filtration
- Municipal Drinking Water Filtration
- Reverse Osmosis Pre-filtration
- Desalination Pre-filtration
- Pleated design for more surface area
- FDA approved materials - NSF 61 certified



Certified to  
ANSI-NSF 61

Excluding High Temp



## HARMSCO® FILTRATION PRODUCTS

Product Code	Nominal Micron Rating	Media (sq ft)	Recommended Flow Rate* (GPM)	Length (in)
<b>Polyester-Plus™ - engineered for high efficiency, low pressure drops</b>				
801-0.35	0.35	6	6	9-3/4
801-11	6	6	9-3/4	2-3/4
801-5	5	6	6	9-3/4
801-10	10	6	6	9-3/4
801-20	20	6	6	9-3/4
801-50	50	6	6	9-3/4
801-100	100	6	6	9-3/4
921-0.35	0.35	12	12	19-1/2
921-1	1	12	12	19-1/2
921-5	5	12	12	19-1/2
921-10	10	12	12	19-1/2
921-20	20	12	12	19-1/2
921-50	50	12	12	19-1/2
801-0.35/20*	0.35	12	12	20
801-1/20	1	12	12	20
801-5/20*	5	12	12	20
801-20/20*	20	12	12	20
801-50/20	50	12	12	20
931-0.35	0.35	18	18	29-1/4

Product Code	Nominal Micron Rating	Media (sq ft)	Recommended Flow Rate* (GPM)	Length (in)
931-1	1	18	18	29-1/4
931-5	5	18	18	29-1/4
931-10	10	18	18	29-1/4
931-20	20	18	18	29-1/4
931-50	50	18	18	29-1/4
801-0.35/30*	0.35	18	18	30
801-1/30	1	18	18	30
801-5/30*	5	18	18	30
801-20/30*	20	18	18	30
801-50/30	50	18	18	30
801-0.35/40*	0.35	24	24	40
801-1/40	1	24	24	40
801-5/40*	5	24	24	40
801-20/40*	20	24	24	40
801-50/40	50	24	24	40
<b>Polyester: High Temperature - rated up to 200°F (93°C); standard dark blue end caps</b>				
801-1-HT	1	6	6	9-3/4
801-5-HT	5	6	6	9-3/4
801-20-HT	20	6	6	9-3/4
801-50-HT	50	6	6	9-3/4

## HARMSCO® SB HURRICANE® SWING BOLT HOUSINGS

Harmsco® Hurricane® Swing Bolt filter housings provide unsurpassed performance. Their unique design separates dense solids prior to cartridge filtration for extended filter life, increased dirt holding capacity and reduced maintenance costs.

### FEATURES

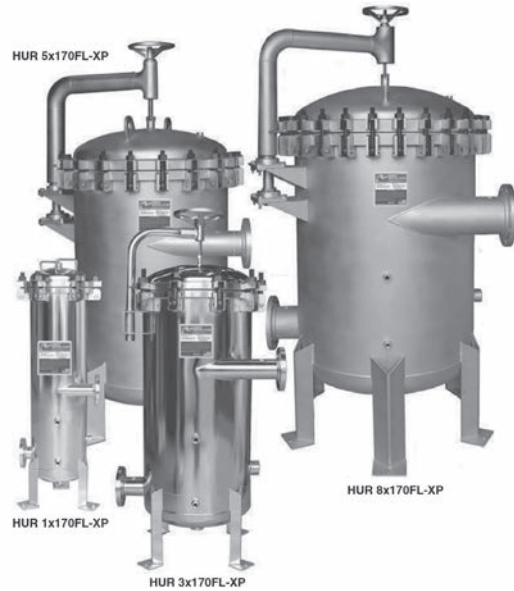
- Patented Up-flow design Pressure rated to 235 PSI (XXP models)
- NSF 61 listed
- Electro-polished finish - standard
- "Swing Bolt" closure system
- Combination cyclone separator/cartridge filter in a compact design
- Four sizes for greater utility - one, three, five and eight cartridges
- 304 stainless steel housing and internal components - standard
- The industry's largest selection of cartridge options
- Built to ASME design standards
- 316 SS, Duplex SS, & 3MTM
- Scotchkote™ coating available
- Flow rates up to 1,200 GPM (up to 2,400 GPM see SB High Flow)

### APPLICATIONS

- Municipal Drinking Water
- Cooling Tower Filtration
- Desalination Pre-filtration (coated option)
- Surface Water Treatment Rule (SWTR) LT2
- Industrial Waste Water Treatment
- Reverse Osmosis Pre-filtration
- Ground Water Remediation
- Ground Water Under Direct Influence (GUDI)



Certified to ANSI-NSF 61  
Excluding High Temp



### Polyester-Plus™ - engineered for high efficiency, low pressure drops; NSF 61 Listed

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
HC/170-0.35	Hur 170 Cartridge - 0.35 Micron	•	•				•			•							•	
HC/170-1	Hur 170 Cartridge - 1 Micron	•	•				•			•							•	
HC/170-5	Hur 170 Cartridge - 5 Micron	•	•			•	•			•							•	•
HC/170-10	Hur 170 Cartridge - 10 Micron	•	•			•	•			•							•	•
HC/170-20	Hur 170 Cartridge - 20 Micron	•	•			•	•			•							•	•
HC/170-50	Hur 170 Cartridge - 50 Micron	•	•			•	•			•							•	•
HC/170-100	Hur 170 Cartridge - 100 Micron	•	•			•	•			•							•	•
HC/170-150	Hur 170 Cartridge - 150 Micron	•	•			•	•			•							•	•

### High Temperature - up to 200°F (93°C)\* \*250°F (121°C) with metal end caps, using suffix "HTM"

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
HC/170-5CPHT	Hur 170 Cartridge - 5 Micron High Temp	•	•				•			•			•	•	•		•	•
HC/170-5HT	Hur 170 Cartridge - 5 Micron High Temp	•	•				•			•			•	•	•		•	•
HC/170-10HT	Hur 170 Cartridge - 10 Micron High Temp	•	•				•			•			•	•	•		•	•
HC/170-20HT	Hur 170 Cartridge - 20 Micron High Temp	•	•			•	•			•			•	•	•		•	•
HC/170-50HT	Hur 170 Cartridge - 50 Micron High Temp	•	•			•	•			•			•	•	•		•	•

### Harmsco-Free - 100% synthetic composite media; NSF 61 Listed

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
HC/170-1W-HF	Hur 170 Cartridge - 1 Micron	•	•				•			•							•	
HC/170-5W-HF	Hur 170 Cartridge - 5 Micron	•	•				•			•							•	•
HC/170-20W-HF	Hur 170 Cartridge - 20 Micron	•	•			•	•			•							•	•

### Poly-Pleat™ - 1 micron absolute, multi-layered media; NSF 61 Listed

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
PP-HC-170-1	Poly Pleat Hur 170 Cartridge - 1 Micron	•	•				•			•							•	
PPFS-HC-170-1	PP-Fail Safe Hur 170 Cartridge - 1 Micron	•	•				•			•							•	

### All-Poly - 100% polypropylene media with polypropylene end caps and components

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
HC-PP-170-0.2	Hur 170 High Purity Pleated PP - 0.2 Mic	•	•				•			•							•	
HC-PP-170-0.45	Hur 170 High Purity Pleated PP - 0.45 Mic	•	•				•			•							•	
HC-PP-170-1	Hur 170 High Purity Pleated PP - 1 Mic	•	•				•			•							•	
HC-PP-170-5	Hur 170 High Purity Pleated PP - 5 Mic	•	•				•			•							•	
HC-PP-170-10	Hur 170 High Purity Pleated PP - 10 Mic	•	•				•			•							•	
HC-PP-170-20	Hur 170 High Purity Pleated PP - 20 Mic	•	•				•			•							•	
HC-PP-170-50	Hur 170 High Purity Pleated PP - 50 Mic	•	•				•			•							•	

### SureSafe™ Antimicrobial - reduces growth of bacteria and mold on media

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
HC/170-20-AM	Hur 170 Cartridge - 20 Micron	•	•				•		•								•	
HC/170-50-AM	Hur 170 Cartridge - 50 Micron	•	•				•		•								•	

### Carbon Block - includes pleated 5 micron nominal pre-filtration

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
HC/170-AC-5	Hur 170 Cart. Carbon + 5 Mic Pre-filt	•	•	•	•		•			•							•	

### EZ Clean - 100% synthetic composite 50 micron media

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
HC/170-EZ-CLEAN	Hur Cartridge - EZ CLEAN - 50 Micron	•	•				•			•							•	

### Poly-Mesh - 100% synthetic composite 250 micron media

Model	Cartridge	Sediment Removal	Turbidity Reduction	Chlorine Removal	Taste & Odor Reduction	Cyst Removal	Pre-Filtration	Post-Filtration	Antimicrobial Rated	Absolute Rated	Nominal Rated	100% Synthetic	Not Potable Use Only	Coarse Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reusable
HC/170-PM	Hur 170 Cartridge Poly Mesh - 250 Micron	•	•				•			•							•	

**For Harmsco® Hurricane® Swing Bolt Single and Multiple Cartridge Filter Housings**  
 Harmsco® recommends operation at 70% of maximum flow rate for optimum performance.

**Polyester-Plus™, High Temp, Harmsco-Free, SureSafe™, EZ Clean, Poly-Mesh**

Filter Model	N.O. of Cartridges	Pleated Media Area (sq.ft.)	Length (in.)	O.D. (in.)	Recommended Flow Rate* (GPM)	Max Flow Rate (GPM)	Max Flow Rate (LPM)	Max Flow Rate (M <sup>3</sup> /HR)
HUR 1x170FL	1	170	30-3/4	7-3/4	105	150	568	34
HUR 3x170FL	3	510	30-3/4	7-3/4	315	450	1,703	102
HUR 5x170FL	5	850	30-3/4	7-3/4	525	750	2,839	170
HUR 8x170FL	8	1360	30-3/4	7-3/4	840	1200	4,542	272

**Poly-Pleat™**

HUR 1x170FL	1	100	30-3/4	7-3/4	50	—	—	—
HUR 3x170FL	3	300	30-3/4	7-3/4	150	—	—	—
HUR 5x170FL	5	500	30-3/4	7-3/4	250	—	—	—
HUR 8x170FL	8	800	30-3/4	7-3/4	400	—	—	—

**All-Poly**

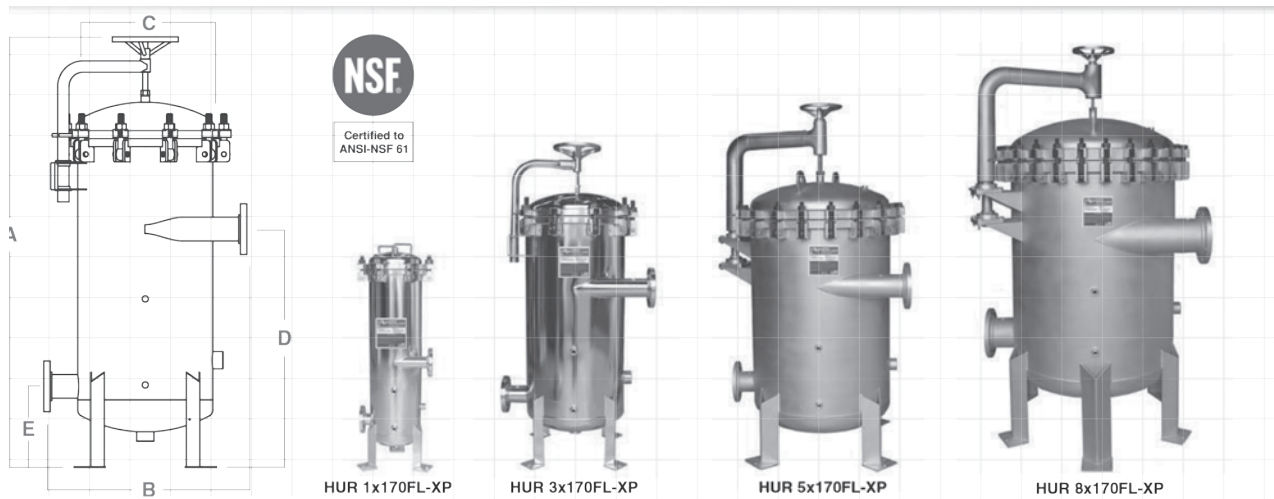
HUR 1x170FL	1	75	30-3/4	7-3/4	60*	100	76	36
HUR 3x170FL	3	225	30-3/4	7-3/4	180*	300	228	108
HUR 5x170FL	5	375	30-3/4	7-3/4	300*	500	380	180
HUR 8x170FL	8	600	30-3/4	7-3/4	480*	800	608	288

**Carbon Block**

\*based on 1, 5, 10, 20 and 50 micron ratings

HUR 1x170FL	1	90	30-3/4	7-3/4	15**	—	—	—
HUR 3x170FL	3	270	30-3/4	7-3/4	45**	—	—	—
HUR 5x170FL	5	450	30-3/4	7-3/4	75**	—	—	—
HUR 8x170FL	8	720	30-3/4	7-3/4	120**	—	—	—

\*\*recommended flow for maximum chlorine removal



Filter Model	Pressure Rating PSI (Bar)	A Filter Height	B Width	C Diameter	D Inlet	E Outlet	Pipe Size I/O NPS	Drain Size NPT	Floor Space	Service Height	Shipping Wt. (lbs.)
IUR 1x170FL-XP	150 (10)	48"	15-1/2"	11"	23-5/8"	9-3/4"	2" Flange	3/4"	1.8 ft <sup>2</sup>	77"	150
IUR 3x170FL-XP	150 (10)	64"	30"	20"	35-1/4"	12"	3" Flange	1-1/2"	3.7 ft <sup>2</sup>	98-1/2"	420
IUR 5x170FL-XP	150 (10)	74"	37-1/2"	30"	38"	14-1/8"	4" Flange	1-1/2"	7.6 ft <sup>2</sup>	98-1/2"	1,100
IUR 8x170FL-XP	150 (10)	84"	44-1/4"	35-3/8"	44-1/4"	20-1/2"	6" Flange	1-1/2"	13 ft <sup>2</sup>	98-1/2"	1,600
IUR 1x170FL-XXP	235 (16)	48"	15-1/2"	11"	23-5/8"	9-3/4"	2" Flange	3/4"	1.8 ft <sup>2</sup>	77"	150
IUR 3x170FL-XXP	235 (16)	64"	30"	20"	35-1/4"	12"	3" Flange	1-1/2"	3.7 ft <sup>2</sup>	98-1/2"	420
IUR 5x170FL-XXP	235 (16)	74"	37-1/2"	30"	38"	14-1/8"	4" Flange	1-1/2"	7.6 ft <sup>2</sup>	98-1/2"	1,100
IUR 8x170FL-XXP	235 (16)	84"	44-1/4"	35-3/8"	44-1/4"	20-1/2"	6" Flange	1-1/2"	13 ft <sup>2</sup>	98-1/2"	1,600

**HARMSCO HURRICANE REPLACEMENT CARTRIDGES**

Made of pleated polyester for long life and high dirt capacity.

Cleanable and reusable in most applications; rated for 140°F.



FILTER NUMBER	CARTRIDGE NUMBER	MICRONS	FIG. NO.	PRICE
HUR-40-HP	HC-40-0.35	.35	60716	
HUR-40-HP	HC-40-1	1		
HUR-40-HP	HC-40-5	5		
HUR-40-HP	HC-40-20	20		
HUR-40-HP	HC-40-50	50		
HUR-40-HP	HC-40-100	100		
HUR-90-HP	HC-90-0.35	.35		
HUR-90-HP	HC-90-1	1		
HUR-90-HP	HC-90-5	5	74027	
HUR-90-HP	HC-90-20	20	67451	
HUR-90-HP	HC-90-50	50		
HUR-90-HP	HC-90-100	100		
HUR-170-HP	HC-170-0.35	.35		
HUR-170-HP	HC-170-1	1		
HUR-170-HP	HC-170-5	5	67748	
HUR-170-HP	HC-170-20	20		
HUR-170-HP	HC-170-50	50		
HUR-170-HP	HC-170-100	100		

**Be sure to visit duffco.com for all your water treatment needs!**

**COMMERCIAL & RESIDENTIAL WATER TREATMENT SYSTEMS & SUPPLIES**

PROBLEMS SOLUTIONS

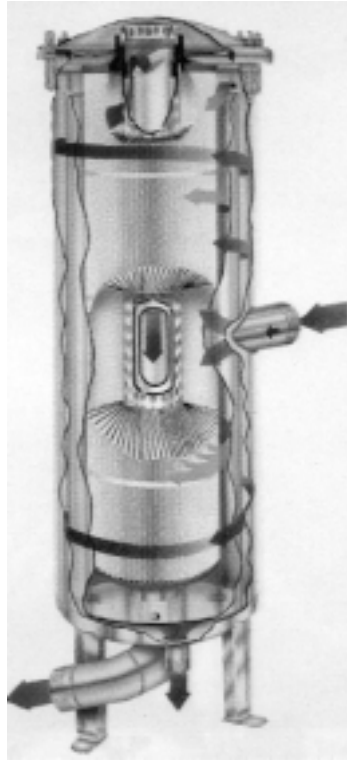


## THE REVOLUTIONARY HARMSCO HURRICANE

COMBINES THREE FILTRATION TECHNOLOGIES IN A SINGLE COMPACT DESIGN

### CENTRIFUGAL SEPARATION TO REMOVE DENSE PARTICLES FROM LIQUIDS

Liquid enters the Hurricane filter's outer chamber tangentially, producing a rotational flow. This flow pattern creates a centrifugal force which is used to separate dense particles such as sand, rust, grit and metal filings from liquids. Heavy particles drop to the bottom of the filter's outer chamber where they are discharged manually, automatically or continuously. With the dense particles removed, liquid and light solids rise up, over and into an inner chamber where the rotational flow is continued.



### UP FLOW CARTRIDGE FILTRATION AND ANGLES PLEATS FOR LIGHT-WEIGHT PARTICLE REMOVAL

Lighter solids are removed in the filter's inner chamber by a proprietary filter cartridge made with deep, angled pleats which are directed toward the liquid's rotational flow. As forces of the liquid collide with the cartridge, the pleats 'flutter' which distributes particulate evenly within the pleated area. Filter efficiencies are dramatically improved to provide longer filter runs and reduced filtration costs. Hurricane filter elements are available in a wide range of micron ratings and may be cleaned and reused in most applications and most micron rating.

### THREE MODELS AVAILABLE

Three Harmsco Hurricane Filter models are available for a wide range of applications. Hurricane filters are rated for pressures to 150 psi, temperatures to 140°F and can separate solids in liquids with a pH of 3 to 11.

### FEATURES AND SPECIFICATIONS

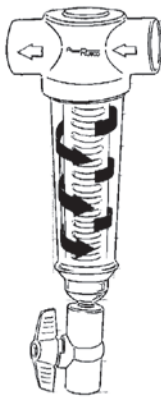
- \*304 stainless steel filter housings
- \*Electro polished for superior finish
- \*Resistant coating available
- \*Fail-safe lids with individual studs for security
- \*Bronze wing-nuts for convenience
- \*90° elbow and 45° sweep on outlet for in-line vertical installation
- \*CPVC standpipe for up-flow design
- \*Choice of cartridges not included



**FILTER AND  
CARTRIDGE  
SOLD  
SEPARATELY**

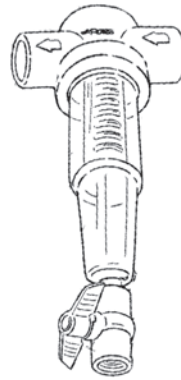
	HUR-40-HP	HUR-90-HP	HUR-170-HP
Flow rate (GPM)	Up to 50	Up to 100	Up to 200
No. of Std. Cartridges	40	90	170
Alternative cartridge	2"	2"	2"
Pipe size (Male NPT)	1"	1"	1"
Filter Height	21"	31"	41"
Floor Space Req'd	13"	13"	13"
Service hght clearance	15'x15"	15'x15"	15'x15"
Shipping wght (appx)	31"	51"	72"
Pressure rating	40 lbs	51 lbs	64 lbs
FIG. NO.	6 0 7 1 5	6 7 4 4 8	-

**RUSCO SPINDOWN SEDIMENT FILTERS**



Clear cover is easily removed for total cleaning (no tools required)\*  
 Flow capacity for entire system  
 Sediment is visible through clear cover indicating when the filter needs cleaning  
 Sediment is quickly and easily removed by opening the optional ball valve at the bottom of the filter cover  
 Reusable polyester and stainless steel filter screen in many mesh sizes  
 No down time  
 Made in USA  
 \*Using tools void warranty

**RUSCO SPINDOWN SEDIMENT TRAPPER FILTERS**



Unique element design traps sediment in lower reservoir of clear cover  
 Clear bowl easily removed for total cleaning (no tools required)\*  
 Flow capacity for entire system  
 Sediment is visible through the clear cover indicating when the filter needs cleaning  
 No down time  
 Optional ball valve allows for quick sediment removal from bottom of cover  
 Centrifuge spin-down type sediment separation  
 Reusable polyester and stainless steel filter screen available in many mesh sizes from very fine to very coarse  
 \*Using tools void warranty

SPINDOWN FILTER			SEDIMENT TRAP FILTER	
SIZE	FIG. NO.	PRICE	FIG. NO.	PRICE
3/4"	48478		44609	
1"	44243		83590	
1 1/2"	31887		83591	
2"	43711			

SPINDOWN FILTER SCREENS			
SIZE	MESH	FIG. NO.	PRICE
1"	24	48477	
1"	40	50966	
1"	100	48458	
1"	140	50512	
1"	250	49384	
1"	500	44610	
1"	1000	44611	
1 1/2"	24	54011	
1 1/2"	100	49383	
1 1/2"	250	38062	
2	24	53252	
2	60	48827	
2	100	48480	
2	250	69438	
2	500	48479	

MATERIAL IN WATER	APPLICATIONS	USE MESH NUMBER
1. Shale, shell	General use	24
2. Debris	General use	24,30,40
3. Pipe scale, coarse sand	Sprinkler systems, faucet aerators, sand sensitive valve	40 to 60
4. Fine sand, grit from new wells	Drip irrigation systems, faucet aerators, sand sensitive valves	100 to 140
	Poultry growers watering devices (.010")	100(.006" opening)
5. Very fine sand and grit	Fogger nozzles	140 (.004" opening)
	Pre-treatment	250 to 500
	Pre-treatment ultra water systems RO, etc.	1000
6. Algae	Grows in presence of light under clear filter cover.	Use solid white filter cover



### LAKOS II 1" INLINE FILTER

- Quick in-line cleaning without disassembly
- No shut off required during backwash cycle
- Built-in secondary filter provides an uninterrupted supply of filtered water during backwashing
- Internal bypass construction eliminates stagnant water in seldom used bypass lines
- Patented impeller cleaning system backwashes the filter with a 'pulsating' high pressure stream directed through the filter screen.
- Flow and filtering capacity to service an entire plumbing system - not just a single fixture.

### TYPICAL APPLICATIONS

Private wells, municipal water, recreational home water, lake water, irrigation system, industrial process water, protection of sensors for pressure, flow, chemicals or temperature.

- Protection of solenoid valves, protection of water source heat pumps, precipitate removal from chemical water treatment systems, drinking fountains, soda vending machines, etc.



Each filter has double union threaded connections, with transparent sump, 100 micron screen, and pressure gauge. 104 deg. F, 230 psi maximum

## LAKOS SandMaster

### HOW TO SELECT YOUR SANDMASTER MODEL

Each Sandmaster model operates best within a specific flow range. To determine your pump's actual flow rate:

**If you have a valve** between the pump and the pressure tank, open it fully and record the volume of water in one minute to determine gallons or liters per minute.

**If you have no valve**, follow these simple steps.

1. Immediately after your pump shuts off, open faucet between pressure tank and house (make sure no the water is running), run water into a container and record the **volume** (gallon or liters) of water it takes for pump to start up again. (you may have to refill container several times).
2. Record length of **time** (in minutes) pump runs before shutting off again.
3. Divide **volume** by **time** to determine actual flow rate (gpm or liters/minute).
4. Select your Sandmaster model accordingly.



US GGPM	SANDMASTER MODEL	FIG. NO.	INLET/OUTLET PIPE SIZE MALE, NPT	DIMENSIONS	
				HEIGHT	DIAMETER
5-10	H20-5	64298	1/2 inch	19 3/8"	4 1/2"
10-20	H20-10	51394	3/4 inch	19 3/8"	4 1/2"
20-32	H20-20	60507	1 inch	24 3/4"	6"
30-48	H20-30	60508	1 1/4 inch	24 3/4"	6"
45-70	H20-45	52404	1 1/2 inch	24 3/4"	6"

**ALL OTHER LAKOS PRODUCTS READILY AVAILABLE!**





WATER FILTRATION PRODUCTS



**AP101S**  
Dirt/Rust Water Filter.  
With shut off valve in head.  
Installs on incoming water line.



**AP101T**  
Dirt/Rust Water Filter.  
With shut off valve in head.  
Installs on incoming water line.



**AP102T**  
Dirt/Rust Water Filter.  
For cold water use only.



**AP11T**  
Dirt/Rust Water Filter  
For cold water use only  
Fig No. 106142



**AP11S**  
Dirt/Rust Water Filter.  
For cold water use only.



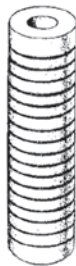
**AP12T**  
Dirt/Rust Water Filter.  
For cold water use only.



**AP1610**  
Heavy Duty Water Filter.  
Install on incoming water  
line or under the sink.



**HF60-S**  
Scale inhibitor  
Fig No. 230573



**AP110 H/C**  
Dirt/Rust Water Filter  
Cartridge  
Fig No. 44861



**AP810**  
Dirt/Rust Removal  
Fig No. 143143



**AP430**  
Hot Water System Protector.



**AP431**  
Hot Water System Protector  
Water Filter Cartridge  
Fig No. 48730



**DUFF WATER CONDITIONING**  
Products for Quality Water

WATER FILTRATION  
PRODUCTS

*Aqua-Pure*<sup>®</sup>  
WATER FILTERS



a 3M company



**AP51T**  
Dirt/Rust/Taste/Odor  
Water Filter.  
Installs under sink.  
Fig No 106142



**AP117**  
Taste/Odor  
Water Filter.  
Fig No 44863



**AP217**  
Dirt/Rust, Taste/Odor  
Water Filter. Cartridge.  
For AP200.  
Fig No 44862



**AP200**  
Dirt/Rust, Taste/Odor  
Water Filter.  
Installs under sink.



**AP500**  
Dirt/Rust, Taste/Odor,  
Scale Inhibitor Water  
Filter.



**AP517**  
Dirt/Rust, Taste/Odor,  
Scale Inhibitor Water  
Filter Cartridge.  
Fig No 96733



**AP717**  
Ice Maker in Water Filter.  
Fig No 78704



**AP305**  
Dirt/Rust, Taste/Odor, Scale Water  
Filter. Installs on vending machines,  
coffee makers and fountains. Home  
Ice makers.



**AP300**  
Dirt/Rust, Taste/Odor,  
Scale Water Filter.  
Fig No 4227



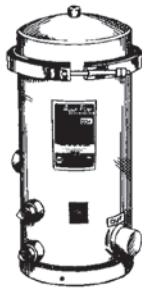
**AP317**  
Scale Water Filter  
Cartridge



**CFS 8112-S**  
Scale Stopper Water  
Filter Cartridge. Installs  
on water using appliances  
Fig No. 98362



**AP617**  
Dirt/Rust, Taste/Odor,  
Scale Inhibitor Water  
Filter Cartridge.



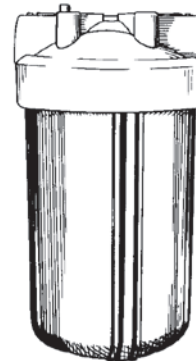
**SS4**  
Commercial Duty  
Filter System.



**SS8**  
Commercial Duty  
Filter System.



**SS12**  
Commercial Duty  
Filter System.



Wholehouse Filter  
1" Connection



Dirt/Rust Water  
Filter Cartridge



## PRODUCTS FOR QUALITY WATER

### **DROP BY DROP, IT ALL ADDS UP**

Since 1947, the family-owned and-operated Duff Company and its water conditioning division, DWC, have provided more than just the cleanest, safest water possible; DWC has provided piece of mind.

Supplying quality products, service and technical support has earned DWC the trust of many corporations, industries and homeowners who use DWC water treatment systems. Offering a broad menu of services and systems in response to a variety of water needs, DWC delivers high-quality water with the product that fits your applications. DWC products are distributed by professional dealers and contractors.

Enjoy cleaner, safer, fresher water right now, for less than you ever thought possible. Let DWC show you how; drop by drop, it all adds up.



# How to Order

Submit your order online

or

email [info@duffco.com](mailto:info@duffco.com)

**Be sure to include**

product numbers

descriptions

quantities

**Don't forget to include your name!**







Contact name \_\_\_\_\_ Contact Date \_\_\_\_\_

	<h2 style="margin: 0;">DUFF COMPANY</h2> <p style="margin: 0;">201 East Lafayette Street Norristown, PA 19401</p> <p style="margin: 0;">Phone: <b>610-275-4453</b> Fax: <b>610-279-6761</b></p>	
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Legal Name \_\_\_\_\_

Name in which business is conducted \_\_\_\_\_

Billing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Purchasing Phone \_\_\_\_\_ A/P Phone \_\_\_\_\_ Fax \_\_\_\_\_



Principal's Name \_\_\_\_\_

Principal's Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone (Office) \_\_\_\_\_ (Cell) \_\_\_\_\_ E-mail address \_\_\_\_\_

Website address (If applicable) \_\_\_\_\_

Primary Contact \_\_\_\_\_ Title \_\_\_\_\_



**SHIPPING ADDRESS - IF DIFFERENT**

Shipping Address \_\_\_\_\_ Phone \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Tax Exempt Number \_\_\_\_\_ Provide a copy of Certificate. We CAN NOT set up a Tax Exempt Account without certification.



**TYPE OF BUSINESS**

Plumbing \_\_\_\_\_ Pumps \_\_\_\_\_ Heating \_\_\_\_\_ Municipality \_\_\_\_\_ Hotel or Apts. \_\_\_\_\_ Well Drilling \_\_\_\_\_  
Hospital \_\_\_\_\_ Factory (OEM) \_\_\_\_\_ Factory (Mtn) \_\_\_\_\_ Office Building \_\_\_\_\_ Shopping Center \_\_\_\_\_  
Golf Course \_\_\_\_\_ Water Treatment \_\_\_\_\_ Environmental \_\_\_\_\_ Other (Please name) \_\_\_\_\_

Have you been contacted by one of our salesman? \_\_\_\_\_ Name \_\_\_\_\_

If YES, please explain \_\_\_\_\_

Name of person authorized to pick up \_\_\_\_\_

D&B Rating \_\_\_\_\_ Check one: Corporation \_\_\_\_\_ Partnership \_\_\_\_\_ Individual Proprietor \_\_\_\_\_

If division of another company, name parent company and relationship \_\_\_\_\_

# DUFF COMPANY

201 East Lafayette Street, Norristown, PA 19401

## TRADE REFERENCES

Name \_\_\_\_\_ Type of business \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_



Name \_\_\_\_\_ Type of business \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_



Name \_\_\_\_\_ Type of business \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_



Bank reference \_\_\_\_\_

Branch Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Branch officer who handles account \_\_\_\_\_

In consideration of your opening the above account and/or extended credit, the undersigned hereby agrees that all information supplied in this application is correct, that all accounts are to be paid in full to Duff Company monthly by the tenth day of the month following the invoice date, that a 1% service charge and a 1% interest charge will be made on any balance open at the end of the month following invoice date, and that in the event that legal action or lien be taken, or the service of a collection agency are used to collect this account, the undersigned shall pay all expenses incurred by the Duff company, such as, but not limited to, collection fees, costs and legal fees.

Applicant (Name of Account) \_\_\_\_\_

By \_\_\_\_\_ Title \_\_\_\_\_

The undersigned \_\_\_\_\_ and \_\_\_\_\_ for good and valuable consideration, hereby jointly, severally and personally unconditionally guarantee, warrant and promise the full and prompt (within terms) payments of all bills and other obligations (as set forth above) of the applicant in connection with any credit extended to the applicant by Duff Company.\*

Principal \_\_\_\_\_ Witness \_\_\_\_\_ Principal's Spouse \_\_\_\_\_ Witness \_\_\_\_\_

Principal \_\_\_\_\_ Witness \_\_\_\_\_ Principal's Spouse \_\_\_\_\_ Witness \_\_\_\_\_

We routinely fax invoices to our customers. Please provide a fax number where we can send invoices \_\_\_\_\_

**PLEASE FAX FORM TO 610-275-6761**

\*As appropriate, we may also require the guarantee of a principal and, in some cases, the principal's spouse.

### For Duff Company Use Only

Credit Limit: _____	Contact: _____	Certificate Recd: _____
Tax Jurisdiction: _____	General Manager _____	Type: _____
Salesman: _____	Class: _____	Controller: _____
	Date Approved: _____	