

# FILTERS & FILTER CARTRIDGES

## FILTER HOUSING

SARJAN has a full range of top-of-the-line housings manufactured from highest quality NSF listed FDA grade polypropylene. Available in a wide range of styles, colours and pipe fittings. These housings go through strict temperature and burst tests and are chemical resistant. Superior sealing with thread buttress to prevent leakages.

Filter Housing : 2.5 and 4.5" diameter PP filter cartridges available in 5", 10", 20" length with standard O ring / double O ring.

### FEATURES :

- Filter housings are manufactured from the highest quality NSF listed polypropylene. Heavy-duty construction makes for years of durability. Ideal for RO and filtration systems, these housings are available in a wide range of models, types, color, and fitting size.
- Excellent chemical resistance for most acids, alcohol, ammonia, oils, planting solutions and many other aggressive chemicals.
- Housings and EPDM o-rings, rated for temperatures to 125° F (52°F) and pressures to 125 psi (8.75 bar).
- Cap, sump and top-seated o-ring compress to provide leak proof sealing.
- 100% virgin polypropylene housings available for high purity water.
- Superior sealing and security with thread buttress design.
- Full product line, including housings for standard and full flow (B-B) cartridges, in opaque & clear sump models.
- Thick side walls with heavy-duty ribs provide added strength.
- Models with pressure release available.
- Pipe fittings to 1-1/2" for flow rates to 30 GPM.

### Application :

For pre and post filtration for RO systems, under sink / counter top filtrations.

## Double Color Filter Housing

### HIGH CAPACITY HOUSING (Big Blue)

These models are high flow (BB) filter housings. These filter housings come with a pressure release valve, and are available in 1" and 1-1/2" NPT.



### APPLICATION :

Ideal for high capacity applications such as RO's, spas, irrigation, farms, and many other commercial uses.



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## Operating Data:

- Max. Pressure: 125 psi
- Max. Temperature: 120°F(50°C)
- Bursting Pressure: 500 psi Cycle test:  
0-150 psi, 100,000 cycles



## Care Tips :

- Filter housings should be protected against sunlight.
- Should be protected against freezing.
- Should be used under recommended pressure only (normally it is 100 psi)
- For pressure systems, we do not recommend clear housings.
- Max. Temperature : 120 degrees F.
- Bursting Pressure : 400 psi
- Testing Cycle : 100,000 from 0 to 150 psi.

## FILTER CARTRIDGES:

### Polypropylene Filters

Model no	Volume of vessels in liters	Size of multiport valve in mm	Output per hour in m3
WT 8	27	20	800
WT 10	39	20	1200
WT 12	89	25	1750
WT 13	105	25	2150
WT 14	150	25	2500
WT 16	185	40	3150
WT 18	236	40	4150
WT 21	312	40	5500
WT 24	450	40	7300
WT 30	708	50	11500
WT 36	999	50	16600

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## Standard models of pressure sand filters

Sr. No.	Model No.	DIA. Of Unit. MM	Height on State MM	Valves & Piping. in MM	Flow for Tap Water. M3/Hr	Flow for ETP Water
1	DMF 3	300	1250	25	1.25	0.95
2	DMF 4	400	1250	25	2.2	1.65
3	DMF 5	500	1500	40	3.5	2.6
4	DMF 6	600	1500	40	5.0	3.75
5	DMF 7	700	1500	50	6.8	5.0
6	DMF 8	800	1500	50	8.8	6.6
7	DMF 9	900	1500	50	11.3	8.5
8	DMF 10	1000	1800	60	13.8	10.3
9	DMF 11	1100	1800	60	16.7	12.5
10	DMF 12	1200	1800	80.0	20.0	15.0
11	DMF 13	1300	1800	80.0	23.3	17.5
12	DMF 14	1400	1800	100	27.0	20.0
13	DMF 15	1500	1800	100	31.4	23.5
14	DMF 16	1600	1800	100	35.0	26.5
15	DMF 17	1700	1800	100	40.0	30.0
16	DMF 18	1800	2000	125	45.2	34.0
17	DMF 19	1900	2000	125	50.0	37.5
18	DMF 20	2000	2000	125	55.2	41.5

## PLEATED TYPE CARTRIDGES

### Description:

- 2.5 Pleated polyester cartridges
- Made of various materials, has larger filtering surface, can be reused repeatedly.
- The chemical and bacterial resistance of the polyester media makes these cartridges suitable for potable water, light industrial applications and well water applications.
- Useful for industry filtration.
- Materials used are PESU, PVDF,
- Constructed of melt-blown polypropylene fiber media, Poly-Ray pleated filters combine exceptional solids holding capacities with precise micron ratings than depth filters. The double sheets of melt-blown media are layered to provide absolute particle retention, high solid loading and long service life. Poly-Ray filters are also designed for membrane pre-filtration.



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## Features:

- Maximum Dirt Holding Capacity
- Non Woven re-usable Cartridges
- Superior Surface Filtration
- Available in a variety of lengths medias and core sizes
- Absolute Micron Filtration
- Up to 99.9% Efficiency
- 226 O-ring. 222 O-ring on request.
- 20" 30" 40" Cartridge available
- Materials of O-ring / gaskets
- EPPM. Viton on request

## Applications :

- Bottled water, DI Water, Pre RO,
- Pharmaceutical Water, Cooling Systems,
- General Industrial Water, Beverage,
- Semiconductor Ultrapure Water

## DISPOSABLE-INLINE

### Description :

- The incorporation of a 0.45  $\mu\text{m}$  membrane into a disposable device makes these filters the easiest, most effective way to meet the filtration requirements of Environmental Protection.
- Removes sediments, taste and odour.
- FDA approved material
- NSF Listed
- High capacity filter reduces need for multiple filter changes.
- No hazardous residue on filter surface.
- No assembly/disassembly, and multiple filter changes associated with reusable filter holders.
- Saves time and money as there is no costly decontamination



# FILTERS & FILTER CARTRIDGES

## Inline Filters



## High Capacity Filter

Excellent for sampling in very silty or particulate-laden groundwater, the high capacity filter gives 700 cm<sup>2</sup> of effective filtration area. This is over five times that of conventional 142 mm filters, thus it reduces the need for multiple filter changes.

## Filter Design

- No bulky filter holders that require replaceable filter discs More than five times the effective filtration area than obtained with 142 mm disc filters
- Reduces the need for multiple filter changes
- Assures rapid sample filtration
- Self-contained and disposable
- No hazardous residue on the filter surface

## Applications:

- Icemakers
- Refrigerators
- RU systems
- Drinking fountains
- Coolers

# FILTERS & FILTER CARTRIDGES

## SEDIMENT FILTER

Widely Used for pre filtration for RO systems and post filtration for GAC filters.

Description:	Micron	Size	Case
Sediment Filters are constructed with multi-layers of depth filter cartridges and manufacture by melt blown process. The melt blown cartridges feature graded density construction, which captures particles throughout the entire cross section of the cartridge and reduces surface blinding, which can occur in string wound cartridges. The cartridges combine quality and cost effectiveness to provide excellent filtration value.  Inner Diameter 28mm Outer Diameter 63mm	3	9-7/8"	50
	5	9-7/8"	50
	10	9-7/8"	50
	25	9-7/8"	50
	50	9-7/8"	50
	1	20"	25
	5	20"	25
	10	20"	25
	25	20"	25
	50	20"	25
	1	30"	25
	5	30"	25
	10	30"	25
	25	30"	25
	1	40"	25
5	40"	25	
10	40"	25	

### Features & Benefits:

- Precision final filter results in consistent high-performance filtration
- Multi-layers graded density of the extended media captures particles throughout entire filter depth
- Large media area allows for high flow rates
- Good chemical resistance
- High dirt-holding capacity
- FDA compliant
- iso 9001 certified
  - Inner Diameter 28mm
  - Outer Diameter 114mm



# FILTERS & FILTER CARTRIDGES

## Block Carbon Filter

### Description:

Carbon block filter cartridges, are made with coconut shell based carbon which creates what many believed to be sweeter tasting water. The unique pore structure of this carbon, is well suited for chemical adsorption, including VOCs, while reducing chlorine and chemicals that contribute to taste and odor. Carbon block cartridges provide 1 10pm particulate filtration. Furthermore the service life of this series is greatly extended by an outer layer of 1015pm polypropylene non-woven pre-filtration media and will operate effectively in most installations without pre-filtration. Ideal for residential service where improving the taste of the water is the primary objective.



### Features & Benefits:

- Activated carbon filtration is very common domestic water treatment systems.
- Can be used as a standalone filter to reduce / eliminate bad taste, odor, chlorine and many organic contaminants in municipal (pre-treated or chlorinated) water supplies to produce a significantly improved drinking water.
- 5 micron carbon block filters are commonly used to remove cysts such as giardia and cryptosporidium.
- Removes 99% Chlorine, 95% of VOC, inorganic chemical, turbidity, odour and taste.
- Longer service life.
- NSF & FDA listed materials.
- Free from surfactants, binders and adhesives.

Applications : Various Industries like, textile, paper, Gas, Power generation, automobile, beverages etc.

### Product Specification:

- Micron ratings (pm): 1, 5, 10 micron
- Length: 127 mm, 1016 mm
- Inner diameter: 20 mm, 32 mm, 38 mm
- Outer diameter: 40mm, 44mm, 72 mm, 115 mm

### Material Of Construction:

- Media: Bonded A.C Carbon
- End caps: Polypropylene
- Inner/Outer wraps:
- Polypropylene non-woven
- Netting: Polypropylene
- Gaskets: Buna-N

### Operating Data:

- Maximum operating pressure: 7.5 kg/cm<sup>2</sup>
- Maximum differential pressure: 7 kg/cm<sup>2</sup>
- Collapse pressure: 14 kg/cm<sup>2</sup>
- Maximum operating temperature: 60 degrees C to 75 degrees C

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## Coconut Shell Carbon Block Cartridges :

- NSF & FDA Approved materials. Chlorine Taste and Odor reduction.
- Superior dirt holding Capacity.
- Coconut Shell Carbon for a sweeter tasting water with low pressure drop and high performance.
- Available in 2.5" diameter and 4.5 " diameter

MICRON	SIZE
1	9-3/4'
5	9-3/4"
10	9-3/4"
1	20"
5	20"
10	20"



## GAC CARTRIDGE FILTER

### Description:

- In early 21st century, people noticed active carbon could be used for water purifier. Because it has many small holes on the surface of active carbon to increase surface range to catch the harmful factor.
- It catch organic chemical factor, colors, stink...etc. As size as small active carbon , it with larger total surface range and the ability of catch effect is also higher but it cause unites damaged . It have to be concerned.
- FAIRY use best quality coconut active carbon by acid rinse or not. Particle size from 6x12(large system)to 20x50(Family use) suitable for any kind of place : all kind drinkable water , aquarium , family , factory.

SARJAN offers a wide range of GAC filters. Available in both 10 and 20 inches, all GAC filter utilizes high quality coconut shell carbon; known to be one of the most effective media for removal of organic compounds including VOCs, radon, chlorine, and bad taste/odor. These cartridges combine both quality and reliability at a cost efficient manner.



# FILTERS & FILTER CARTRIDGES

## Features:

- Removes organic / chemical factors, colors, odor and other impurities.
- Best quality coconut active carbon, known to be the most effective media for removal of Organic compounds is used.
- Special sizes available against bulk and confirmed orders.
- This filter includes granular activated carbon, coconut shell activated carbon.
- Upper PP sediment effectively filters tiny granular carbon.
- Chlorine, Taste and Odor Removal Filter. High quality coconut shell
- Granular Activated Carbon. Available in 10" and 20"
- UDF filter utilizes injection case and dual style endcaps, welded to provide more secure fastening compared to conventional adhesive finish style. Without second pollution.

## Application :

- Residential, Commercial, or Industrial.
- Longer Service Cycle.
- High removal rate.
- SIZE: dia. 2.5"
- LENGTH: 12"

## WORKING MANUAL

- Max. flow rate: 1.0 GPM, 3.79 LPM
- Max. working temperature: 120°C, 50°C
- Max. working pressure: 125 PSI
- Inlet and Outlet: 1/4"
  1. KT5633 carbon 2.5" width
  2. K type P.P filter 2.5" width
  3. K type EDF-resin filter 2.5" width