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## **Stainless Steel Activated Carbon Filter**

Activated carbon filter for water treatment filtration system



## **Stainless Steel Industrial Activated Carbon Water Filter Vessel**

Stainless steel industrial activated carbon water filter vessel, made of 304 stainless steel. Pressure from 6 bar to 10 bar

The Activated Carbon Vessels like a sand filter is used as a basic sediment filter, removing large particles from water such as dirt, sand, mud, rust and other large sediment, however the granulated Activated carbon also absorbs chlorine and organic molecules from the water making it smell and taste better.

Active carbon material is nutshell carbon, it is light weight, big holes, strong abrasion resistance and strong absorption, the filling height is:

Activated carbon material: 0.6-1.2mm 1100mm, ---top layer

Quartz sand material: 0.6-1.2mm 100mm, ---middle layer

Quartz sand material: 1.2-2.0mm 100mm, ---bottom layer

Carbon filtration has great capabilities in industry, breweries, waterworks, and wastewater treatment. Kosun's activated carbon filter vessel is made of 304 stainless steel 316SS as an option, working pressure of the activated carbon filter vessel from 4 bar to 6 bar.

### **Features of the activated carbon filter**

The materials for the tank are: stainless steel, steel lined with rubber .

The surface finish can be matt polished or acid washing or mirror polished

The design pressure can be 10 bar g

### **Application of the activated carbon filter**

As the mechanical filter ,it is mainly used for removal of organism, colloidal silicon, remained chlorine etc. It has higher absorption ability to odor, color and heavy metal molecular.

The carbon chosen for mineral water, purify water and beverage industry is water-purify carbon which can enhance the taste of pure water.

It can be used as the pretreatment system for RO, electro dialysis, and ion exchange system that can safeguard these equipment Activated carbon filter can back flush timely and also can be showered by NaOH,HCL. If condition allowed, it also can be washed by vapor blower which should be remarked before ordering, so that we can design and produce accordingly.

## Parameter

MODEL	CAPACITY(M3/H)	FILTERING SPEED	HEIGHT OF FILTER MEDIA LAYER	DIMENSION(MM)
ACT-1	1	10-20	600-800	DN300×1500
ACT-3	3		700-900	DN500×2000
ACT-5	5		800-1000	DN700×2400
ACT-8	8		1000-1200	DN900×2800
ACT-10	10		1100-1300	DN1000×2800
ACT-15	15		1100-1300	DN1200×3000
ACT-20	20		1100-1300	DN1400×3000
ACT-30	30		1100-1300	DN1800×3200
ACT-40	40		1100-1300	DN2000×3200

### Stainless Steel Activated Carbon Filter Tank: The Next Level of Water Filtration

Clean water is a basic necessity for all life forms on Earth, and with the increasing industrialization and urbanization, the quality of water is degrading at an alarming rate. Polluted water not only poses a threat to human health but also affects the ecosystem and biodiversity. Hence it has become essential to implement efficient water purification methods to counter water contamination.

One such method is the use of a stainless steel activated carbon filter tank. This filtration tank employs activated carbon to purify water by removing impurities, chemicals, and sediments, giving clear, odorless, and healthier drinking water. The filter tank is made up of high-quality stainless steel, which makes it corrosive resistant, durable, and long-lasting. The stainless steel tank guarantees that water is free of any bacterial growth and is safe for consumption.

Activated carbon is an excellent adsorbent agent that attracts impurities and contaminants present in the water. The activated carbon filter traps sediments like chlorine, pesticides, herbicides, and volatile organic compounds (VOCs). These contaminants pose serious health risks when consumed regularly and are unfit for human use.

The stainless steel activated carbon filter tank has several advantages compared to other filtration techniques. Firstly, the filter tank is easy to install and does not require any plumbing expertise. The filter tank comes with adapters and connectors that fit with standard piping systems, making it convenient to install. Secondly, the filter tank does not require any electricity to operate, making it energy efficient and economical. Thirdly, the stainless steel tank is easy to clean and maintain, requiring only routine cleaning procedures.

Moreover, the stainless steel activated carbon filter tank is eco-friendly, as it does not discharge dangerous pollutants into the environment. The filtration tank employs biodegradable media, which does not pose any harm to the environment. As the tank uses activated carbon as its adsorbent agent, the filter tank does not generate any hazardous waste materials.

In conclusion, the stainless steel activated carbon filter tank offers a practical and efficient water purification solution that significantly enhances the quality of water. As they are easy to install, maintain, and safe for the environment, these filtration tanks are fast becoming popular among households, commercial, and industrial spaces. With its superior cleaning properties, the stainless steel activated carbon filter tank is the next level of water purification technique, ensuring an uninterrupted supply of clean and pure drinking water.



## KSACF Activated Carbon (Sand) Filter Vessel



KSACF Mechanical(Carbon,Sand)Filter Housing is an important part for Pure water preparation early pre-Finish and water purification system. It is apply to drinking water standard industrial water which is required filtered and general turbidity of treated water is within 5mg/L. It has good remove effect for suspended solids in industrial sewage. The Tablet agglomerated from suspended solids in water which can not remove through Precipitation method, we can through water to filter layer in filter vessel. Finally, to achieve transparency in water.

KSACF Mechanical(Carbon, Sand)Filter Housing using multichannel polishing processing to ensure the interface Ra reach to 0.6um close to sanitary level. All of the surface is mirror polished.

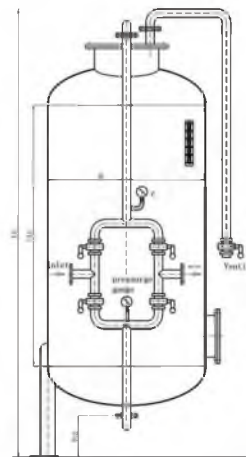
### Application

- It is used in water Finish, mainly used in turbidity removal, reverse osmosis and The front-end pre processing of Ion exchange softening desalination system. It also can be used in remove sediment in Surface water and groundwater. The requirement of in fluent water turbidity should less than 20 degrees, and the turbidity of treated water can below 3 degrees.
- Can be widely used in Electronic power, oil chemical industry, metallurgy, electroplating, paper making, textile, pharmaceutical dialysis, food and beverage, drinking water, Factories in water, swimming pool, etc. To meet the needs of the various industries liquid filtration.

### Features

- Barrel's internal and external surface using mirror polish, interface Ra reach to 0.4um close to sanitary level.
- The equipment low cost, low Operating cost and easy management.
- Reasonable structure design, after Filter material back washing can use many times, filter material has long service life, effective filtering and small occupation area.

Model	φ (mm)	H1(mm)	H2(mm)	H3(mm)	Capacity (T/h)	Design Pressure (Mpa)	Test Pressure (Mpa)
KSACF600	600	2520	1500	400	1.4-2.8	0.6	0.75
KSACF800	800	2640	1500	400	2.5-5.0	0.6	0.75
KSACF1000	1000	2690	1500	400	4.0-8.0	0.6	0.75
KSACF1200	1200	2790	1500	400	5.5-11	0.6	0.75
KSACF1600	1600	3505	2000	400	10-20	0.6	0.75
KSACF1800	1800	3585	2000	400	13-25	0.6	0.75
KSACF2000	2000	3685	2000	400	16-30	0.6	0.75
KSACF2200	2500	3785	2000	400	25-49	0.6	0.75
KSACF2400	3000	3847	2000	400	35-70	0.6	0.75



### Selection Table

	[Model]	[Material]	[Grade]	[Backwash pipes]	[Inlet/outlet size]	[Connetion type]	[O-ring]	
KSACF	600	4	18	8	10	A	S	
	600	1800	4=SS304	S=Sanitary grade	Y=including	10=1"	A=ANSI	E=EPDM
	800	2000	6=SS316L	I=Industrail grade	N=Not included	15=1.5"	D=DIN	P=PTFE
	1000	2500				20=2"	TC=Tri clamp	V=Viton
	1200	3000				25=2.5"	U=SMS Union	S=Silicone
	1600					30=3"		
						40=4"		
						60=6"		

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