

## Fully automatic back washing filter



### Product Overviews

#### **Fully automatic back washing filter - Computer programme control:**

Automatic filtration, automatic identification of differential pressure, automatic back-washing, automatic discharging, low operating costs.

**High efficiency and low energy consumption:** Large effective filtration area and low back-washing frequency; Small discharge volume and small system.

**Large filtration area:** Equipped with multiple filter elements in the whole space of the housing, making full use of the filtration space. The effective filtration area is generally 3 to 5 times the inlet area, with low back-washing frequency, low resistance loss, significantly reduced filter size.

**Good back-washing effect:** Unique filter structure design and cleaning control mode make the back-washing intensity high and cleaning thorough.

**Self-cleaning function:** The machine uses its own filtered water, self-cleaning cartridge, do not need to remove the cartridge cleaning, and do not need to configure another cleaning system.

**Continuous water supply function:** There are several filter elements inside of this housing working at the same time. When back-washing, each filter element is cleaned one by one, while the other filter elements continue to work, so as to achieve continuous water supply.

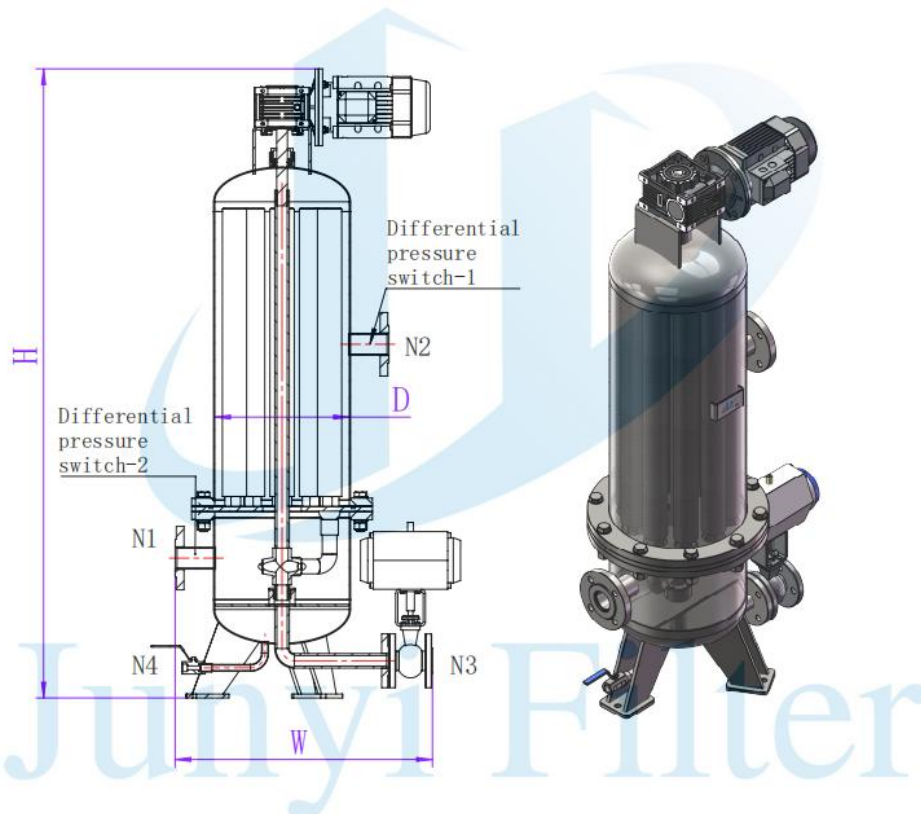
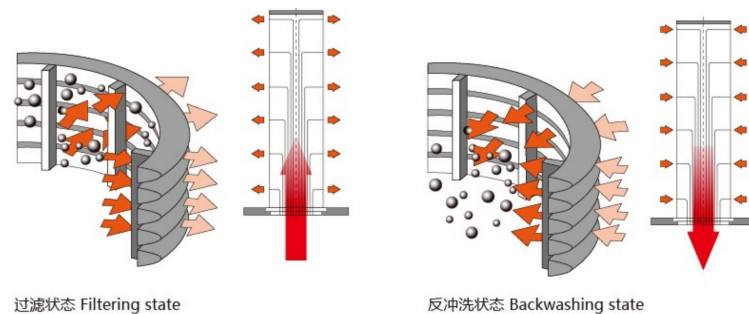
**Automatic backwash function:** Monitors the pressure difference between the clear water area and the muddy water area through the differential pressure controller. When the pressure difference reaches the set value, the differential pressure controller outputs a signal, then the PLC

controls the back-washing mechanism to start and close, realizing automatic back-washing.

**High-precision and reliable filtration:** It can be equipped with various forms of filter elements according to the solid particle size and PH value of the fluid. Metal powder sintered filter element (pore size 0.5-5UM), stainless steel wire mesh sintered filter element (pore size 5-100UM), stainless steel wedge mesh (pore size 10-500UM), PE polymer sintered filter element (pore size 0.2-10UM).

**Operational safety:** Designed with a safety protection clutch to protect the machine from overload resistance during backwashing work and to cut off the power in time to protect the mechanism from damage.

## Filtration process



## Product Features

Sewage Outlet Size	
Applicable Liquid	High flow speed. Low viscosity liquid ((100mPa.s), Impurity Content<1000ppm )
Filtration Accuracy	0.5-200μm
Design Pressure	1.0Mpa / 1.6MPa
Filtration Temperature	0-200°C
Cleaning Pressure Differential	50-100KPa
Differential pressure controller	Differential pressure switch/Pressure transmitter/Differential pressure transmitter
Inlet and Outlet Connections	Flange, Internal Thread, Outer Thread, Quick-open
Flange	HG20592-2009, ANSI, JIS, DIN
Optional Filter Element	PE/PP Sintered Filter Element, Metal Sintered Wire Mesh Filter Element, Stainless Steel Powder Sintered Filter Element, Titanium Alloy Powder Sintered Filter Element
Housing Material	SS304/SS316L/Carbon steel
Backwash Swivel Arm Material	SS304/SS316L
Sealing material	NBR/EPDM/VITON/Silicone rubber/ FK/PM
Shaft seal material	NBR/PU/VITON
Blowdown valve	Texture: SS304/SS316L Structure: Ball valve, Butterfly valve Control type: Pneumatic, Electric
Voltage	Control system 220V AC Customized according to client requirements
Production Mode	ODM/OEM/OBM

## Application

**Industrial filtration applications:** Cooling water filtration; protection of spray nozzles; tertiary treatment of sewage; municipal water reuse; workshop water; R'O system pre-filtration; pickling; paper white water filtration; injection moulding machines; pasteurisation systems; air compressor systems; continuous casting systems; water treatment applications; refrigeration heating water systems.

**Irrigation filtration applications:** Groundwater; municipal water; rivers, lakes and sea water; orchards; nurseries; greenhouses; golf courses; parks.

## Backwash filter parameter table

Model	Cartridge quantity	Cartridge Size	Overall dimension			Pipe diameter		Flow rate (m <sup>3</sup> /h)
			H	W	D	N1/N2	N3	
JY-BWF-300	8	Ø60*L750	1690	430	300	DN50/80	DN50	50
JY-BWF-350	10		1720	480	350	DN80/100	DN50	56
JY-BWF-400	12		1760	530	400	DN100/150	DN50	100
JY-BWF-500	18		1860	650	500	DN200	DN80	150
JY-BWF-600	24		1930	750	600	DN250	DN80	250
JY-BWF-700	24		2040	860	700	DN300	DN100	400
JY-BWF-800	27	Ø60*L1000	2175	960	800	DN350	DN100	500
JY-BWF-1000	33		2310	1180	1000	DN400	DN100	1000
JY-BWF-1200	52		2070	1380	1200	DN500	DN100	1500

Note: Above data for reference, we also accept customization.

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