

The A3 filter series is a bag filter designed for filtration of dust laden air, with dry dust. The filter is available with five different filter bag lengths. The filter bags are cleaned by a fully automatic moving pulse-jet compressed air cleaning system.

## CONSTRUCTION

The filter consists of three sections. The top section is the clean air section and the section for the cleaning system. The center section is the filter section where the filter bags are mounted on wire cages.

The lower section is the hopper section with a screw conveyor for material discharge and outlet through rotary valve. The filter is a panel construction in 2 - 3 mm steel plate galvanized Z 275 or fully powder coated in RAL 5010.

## FUNCTION

The dust laden air enters an inlet module, which ensure pre separation of larger and coarser particles from air stream entering the filter. The fine particles will enter the filter section and partly stick to the filter bags. The fine particles on the filter bags will be cleaned down into the filter hopper by the cleaning system. The material (dust) from the filter is discharged from the hopper by a screw conveyor through rotary valve.

## MULTI JET CLEANING SYSTEM

The fully automatic pulse-jet compressed air cleaning system is unique. It is a cleaning carriage moving over the filter bags cleaning the filter bags with the integrated purge valves on the cleaning carriage. The cleaning carriage is moving on rack and pinion and has integrated compressed air tanks. The cleaning process is controlled by pressure drop across the filter bags (pressure control) or by timer.

## DISCHARGE (SCREW CONVEYOR)

Ø 250 mm screw auger made in black or stainless steel. Shaft equipped with rotation sensor as option.

## INLET AND OUTLET

Inlet (s) and outlet (s) are as standard connections with round flanges. Transitions to square or rectangular optional.

## FILTER BAGS

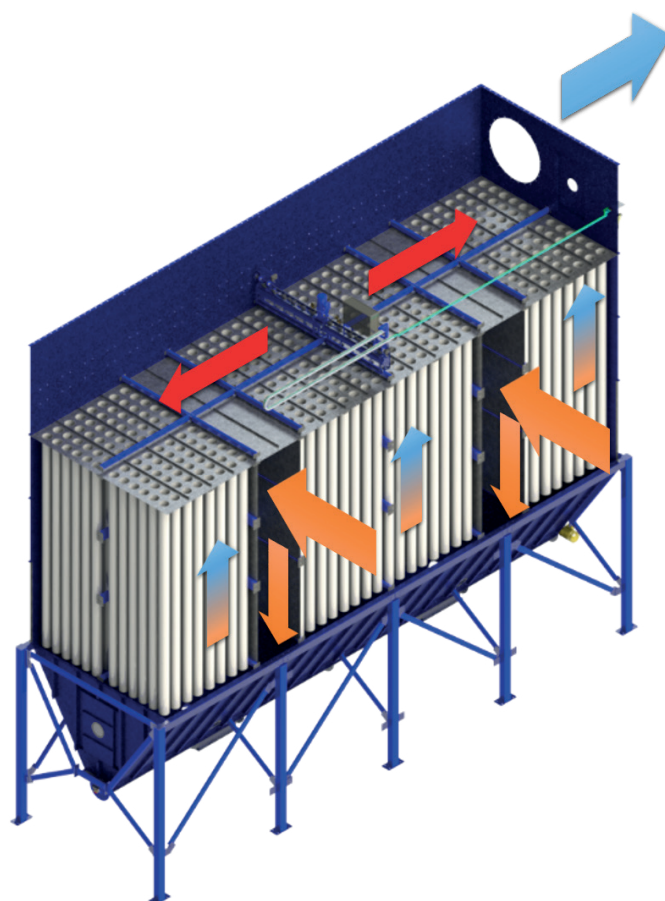
The filter bags are standard 450 g/m<sup>2</sup> polyester antistatic, Ø 155 mm.

## ACCESS TO THE FILTERS

Bag housing is equipped with doors for access to clean air section and hopper with screw conveyor.

## SAFETY DEVICES

Optional certified explosion membranes are available type EDP, max vacuum pressure 5,000 Pa. There is also an option for dry sprinkler in the top section (clean air section). The sprinkler installation in galvanized steel pipe with stainless open sprinkler heads.





## A3 FILTERS

blue-vent

### OPERATING RANGE

Pressure: + 1,500 Pa. - ÷ 4,500 Pa.

Filter area: 462-836 m<sup>2</sup>.

Operating temperature: ÷ 30 to + 65° C.

### COMPRESSED AIR

Connection: 12 Nm<sup>3</sup>/h at min 6 bar.

External connection for compressed air 3/4 ".

Consumption compressed air: 2-4 m<sup>3</sup>/h at 2,5 bar.

### ELECTRICAL DEVICES

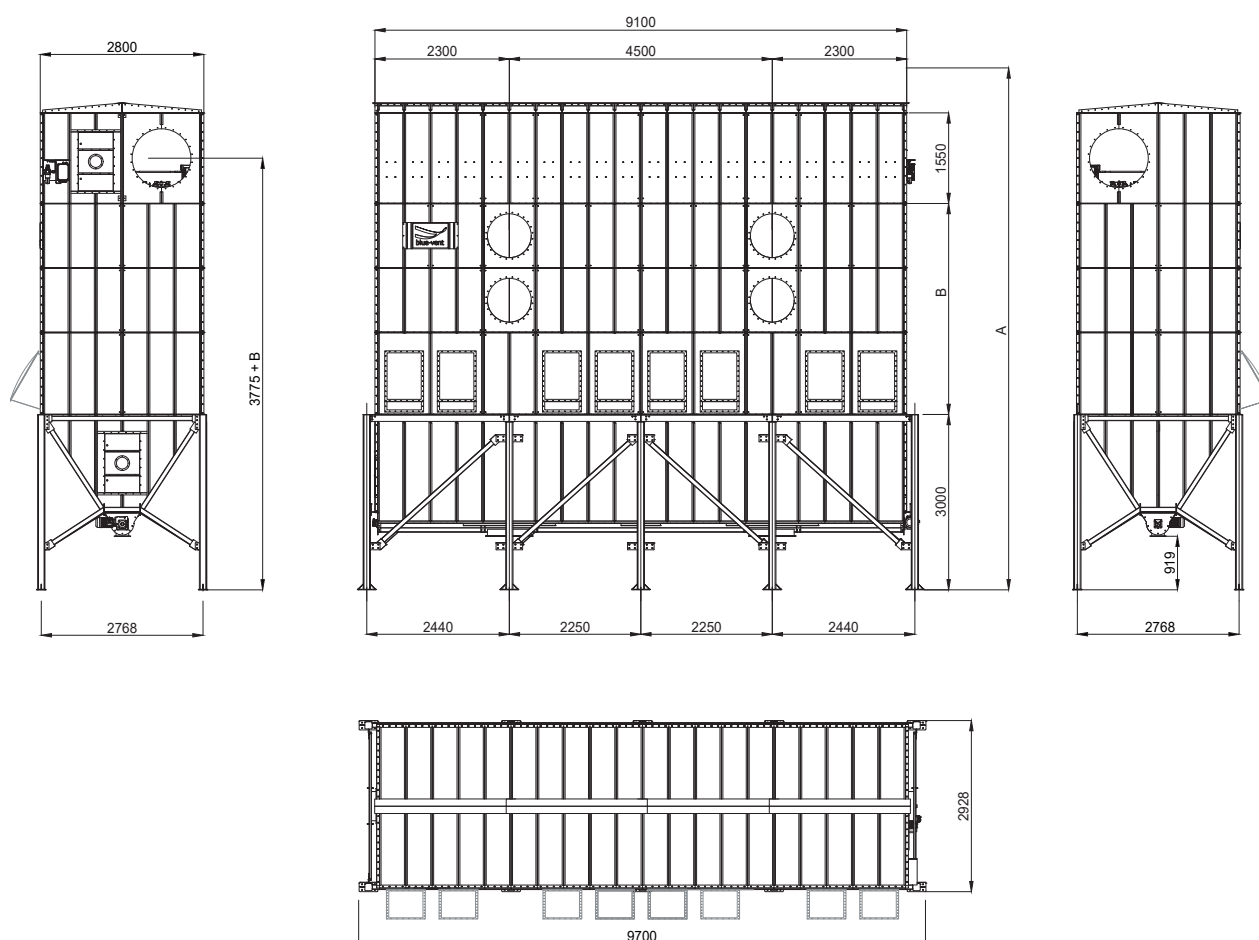
Screw conveyor:

gear motor 1.5 KW, 400 V, 50 HZ, 14 RPM.

Proximity sensor: 24 V. DC.

Cleaning system: 0.18 KW, 220 V. AC, 50 HZ.

Door limit switches: 24 VDC/ 220 V. AC.



MODEL	FILTER BAG LENGTH (MM)	NO. OF FILTER BAGS	FILTER AREA (M <sup>2</sup> )	A (F.-In.)	B (F.-In.)	NO. INLET MODULE	FILTER WEIGHT (lb)	NOMINAL CAPACITY CFM
A3XS	8'-7"	384	4,971	23'-9"	9'-3"	2	20,900	50,500
A3S	10'-3"	384	5,972	25'-9"	10'-3"	2	21,340	60,500
A3	11'-10"	384	6,983	27'-5"	11'-10"	2	23,100	70,600
A8S	13'-6"	384	7,984	29'-4"	13'-10"	2	24,860	80,800
A8	15'-2"	384	8,995	30'-10"	15'-4"	2	26,400	91,000

We reserve the right to make changes without notice

RESULTS THROUGH TECHNOLOGY

Blue-vent Europe ApS

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