

NFSZ3000 RAF Filter with rotary valve or screw conveyor

The filter is designed for small and medium-sized air flows with large material concentration.

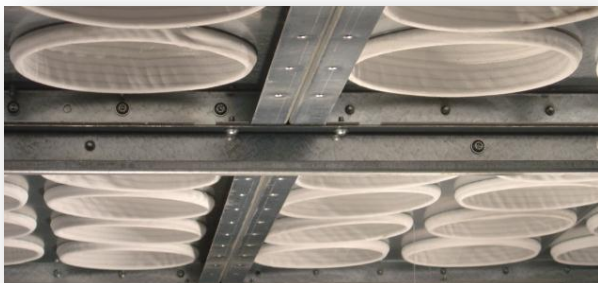


Example: NFSZ3000 3 HJ module with side and top venting for St2 dust, regenerating fans in the top and outlets for rotary valve NRSZ30.

Specifications

Temperature	Max. 75°C
Over pressure	Max. 800 Pa Pred <20 kPa (0,2 bar)
Vacuum	Max. 500 Pa Option 5000 Pa
Power supply:	230 / 400 V

800ø Regeneration fan – 1,1 kW (option 2,2 kW)
Integrated Safety Door switches.
Hopper Inspection door.
ATEX rated inspection doors per filter module.



The NFSZ3000 Reverse Air Filter (RAF) with rotary valve or screw conveyor is designed for small and medium-sized air flows with large material content, for example filtration of waste-laden extracted air particularly in the wood and paper industries

The medium/large particles are separated in the filter hopper (inlet section optional) and the air is afterwards distributed to the filter bags. The collected material is discharged through the rotary valve or screw conveyor.

The filter is typically used in situations requiring non-pressurized material discharge directly into a silo, container or separate material transport system.

The filter can be supplied for either continuous operation or with a pause for cleaning of the filter bags every four hours.

The NFSZ3000 filter is suitable for explosive dusts type.

Description

NFSZ3000 is a modular filter made of galvanized steel. (Size of base module: 1200 x 1200 mm). The filter is self-supporting; it has telescopic supporting legs and is suitable for outdoor locations.

Each module of the filter is fitted with a combined inspection and explosion relief door. Side venting is standard.

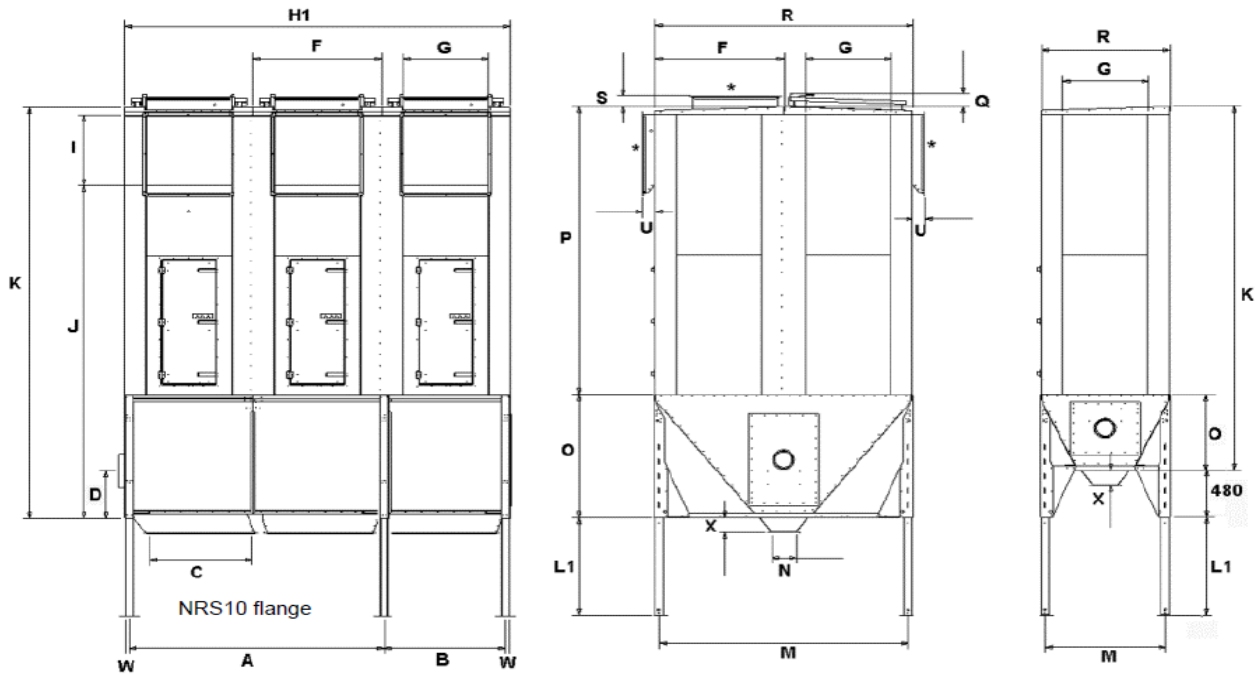
Dust entry into hopper or via inlet module.

A regeneration fans can be mounted for reverse air cleaning of the filter bags according to a pre-set sequence.

Superbag 2000 antistatic polyester filter bags are standard (50 per HJ module).

Filter element	Anti-static Superbag 2000 XT15 with 200ø mm collar
Filter area (m2) per 1200 x 2400 module	HJ: 85 m2 2710 mm LJ: 40 m2 1350 mm

NFSZ3000 filter with rotary valve



Type	A#	B	C	D***	F	G	H1	I	J**	K**	L1	M	N	O	P**	Q	R	S	U	W	X
E	2400	1106	952	485	1200	800	3600	720	2937	2740	See below	1121	240	780	2960	135	1200	115	115	47	153
J	2400	1106	952	485	1200	800	3600	720	3420	4220	See below	2321	240	1260	2960	135	2400	115	115	47	153

Filter length			
Type	H1	Type	H1
1 HJ & LJ	1200	1 HE & LE	1200
2 HJ & LJ	2400	2 HE & LE	2400
3 HJ & LJ	3600	3 HE & LE	3600
4 HJ & LJ	4800	4 HE & LE	4800
5 HJ & LJ	6000		
6 HJ & LJ	7200		

L1 – telescopic filter legs		
Type	Min. Adjust.	Max. Adjust.
L = 1196 mm	155	850
L = 1596 mm	555	1250
L = 2195 mm	1155	1850
L = 2596 mm	1555	2250

Type	Weight per module
HJ - over pressure	567 kg
HE – over pressure	391 kg
HJ - vacuum	742 kg
HE - vacuum	496 kg

All dimensions in mm.
optional 1200 mm.

* Optional position of outlet / regen. Fan. 800 x 800

** Height of LJ unit reduce by 1440 mm.

*** 400 mm to bottomplate of hopper.



RAF - Regeneration fan

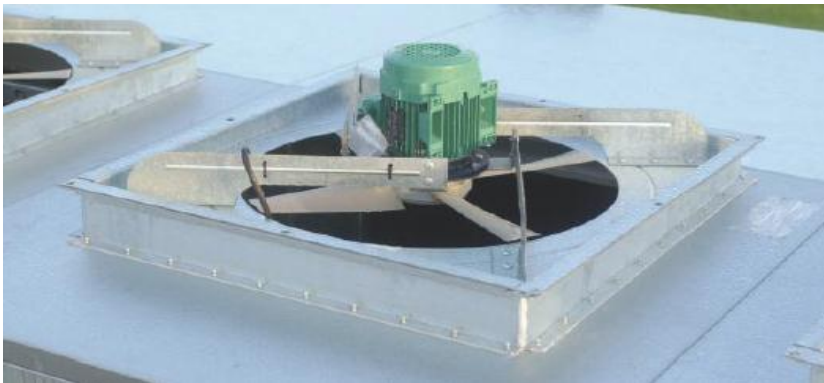
The regeneration fan for reverse air cleaning of the NFZ3000 filter operates at time intervals dependent on filter load and dust level.

PRODUCT INFO SHEET

RAF - REGENERATION FANS

Description

The regeneration fan is mounted directly onto the filter.
 The fan is an axial type fan dia. 630 mm with plastic impeller.
 The regeneration fan is available in a 1,1 kW and a 2,2 kW version.
 The regeneration fan is designed for high pressure in the working mode and low air resistance in the stop mode.
 The regeneration fan is braked in the stop mode, minimizing noise.
 Pressure resistance: 100 Pa at 10,000 m³/h.



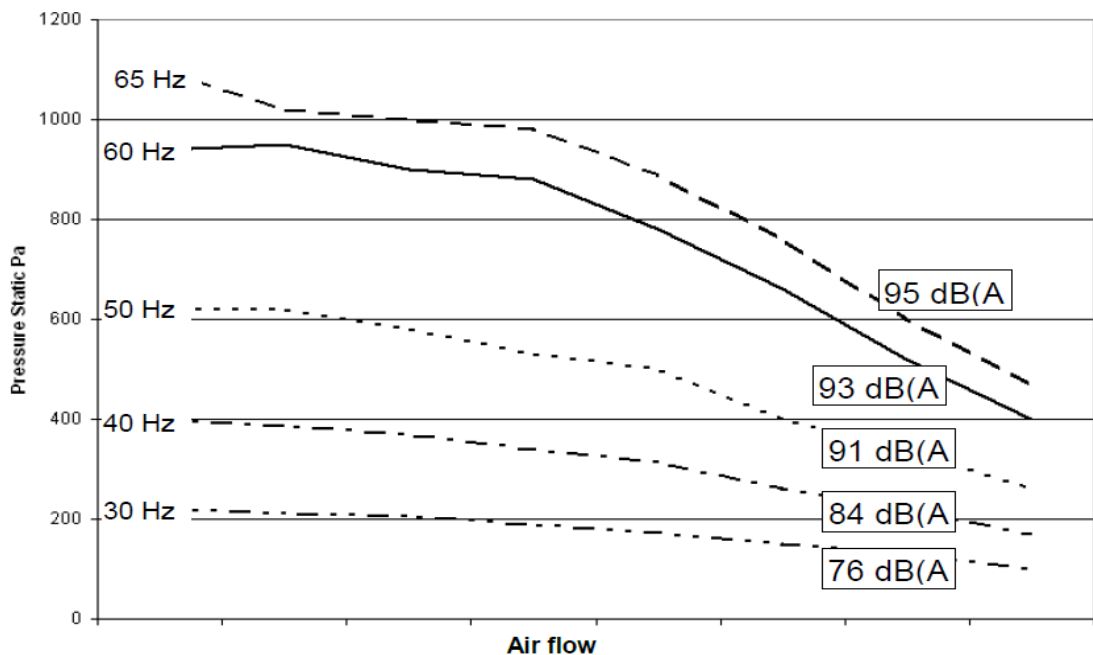
The regeneration fan is applied for cleaning / reverse blowing of NFZ3000 filters at time intervals dependant on

1.1 kW motor is recommended for 50 Hz systems.

2.2 kW motor is recommended for 60 Hz systems and systems with frequency converters.

Reg. fan 1,1 kW, max. 50 Hz: 22 kg
 Reg. fan 2,2 kW, max. 65 Hz: 32 kg

Reg fan Static Pressure



Noise: Ducted fan dB(A), 1 m from duct. See noise data on next page.

Noise data

OCTAV	63	125	250	500	1 k	2 k	4 k	8 k	Total
Lw dB	85	86	94	87	85	82	79	76	96
Lw dB(A)	59	70	85	84	85	83	80	75	91

