EMMEBI IMPIANTI
AEROTEXTILE TECHNOLOGY

SCREEN PREFILTER N35

The PREFILTER N35 is a pre-filtering system with a nylon surface to remove the larger particles of fibre or other waste material generated by production lines from large airflows.

It consists of a rotating disc that is constantly cleaned and suctioned and can be used within a wide range of air flow rates, from 15,000 to 135,000 m^3/h (9,000 - 80,000 cu.ft./min). The prefilter consists of a housing inside which a wheel is installed on which the nylon filter is mounted, which rotates constantly by means of a geared motor. The side in contact with the 'dirty' air is sealed by a strip of dust cover positioned around the wheel that prevents the passage of impurities.

The disc is continuously cleaned by a suction system consisting of a stationary nozzle and a centrifugal fan.

Inspection doors allow access to the inside of the box for checks and regular maintenance.

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TECHNICAL DATA

Gear motor main voltage : 400 V - 50 Hz - 3F (440V - 60Hz - 3F)
Installed power : 0,37 kW

TYPE	*AIR CAPACITY NOMINAL**
N35 - 15	*Max 50.000 m3/h*
N35 - 20	*Max 70.000 m3/h*
N35 - 25	*Max 130.000 m3/h*

*The size of the disc prefilter may depend on several factors. This is dimensioned during the design phase by the sfaff of Emmebi Impianti.

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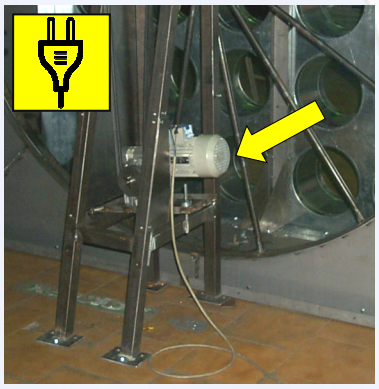
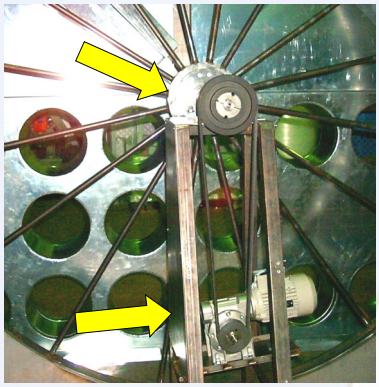
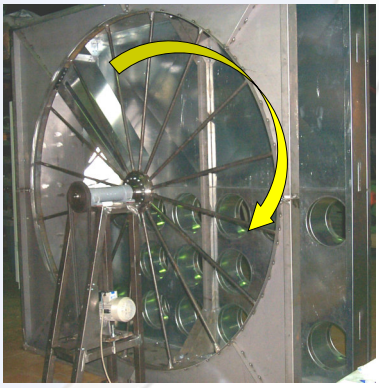
INSTALLATION PROCEDURES

1	Connect the suction points with suction centrifugal fan	
2	Supply the main electricity to the rotating gear motor	
3	Check that the belt drive is properly stretched and the transmission iron wheel is well matched with the gear motor transmission	
4	Check that the direction of the rotation is right	

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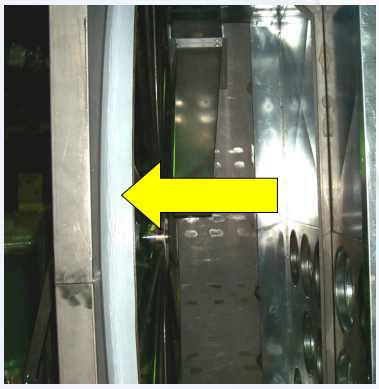
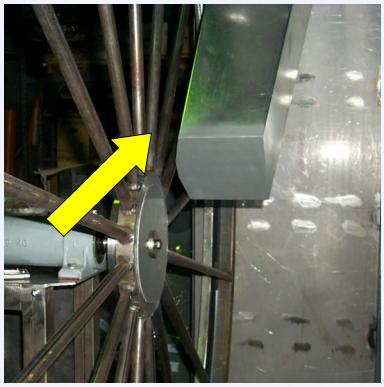
5	Mount the filtering mesh	
6	Wind the sealing felt, insert the hose clamp and tight the screw	
7	Balance the suction points position	
8	Check that the differential air pressure switch is properly set. This adjustment depends on the type of the filtering mesh and however shall not exceed 400 Pascal. ***Pay Attention:*** This task is carried out by our technicians or shall be defined by the supplier.	 

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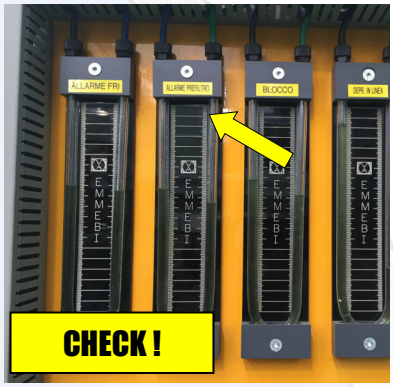
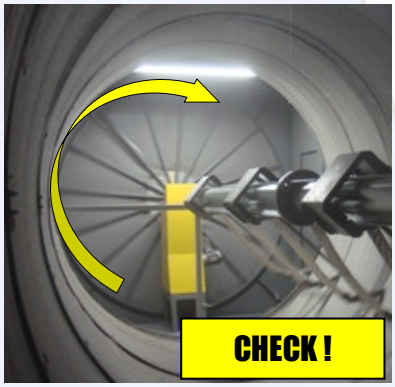
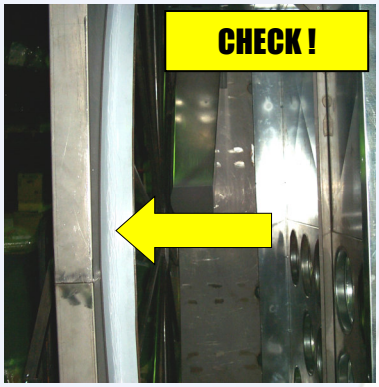
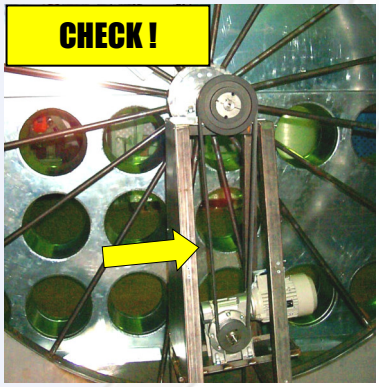
MAINTENANCE PROCEDURES

1	Periodically check the loss of pressure of the prefilter by reading the manometer and make sure that does not exceed 400 Pascal	
2	Periodically check the internal rotation of the wheel	
3	Check that the dust sealing is in the proper position. There shouldn't pass fibers to the next step (filter)	
4	Check the status and the stretching of the drive belt	

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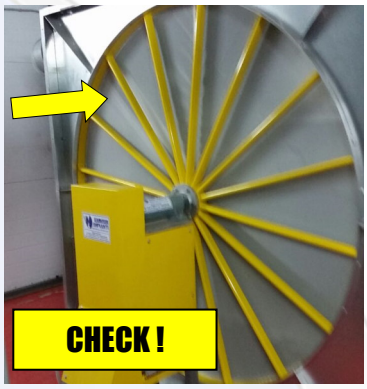
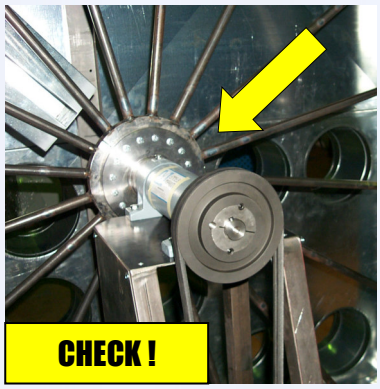
5	Check the status and the position of the filtering mesh. The disk must be tightly stretched and have no creases or wrinkles.	
6	Check that the suction point is free and that there is a correct air suction	
7	Check every six months the status of the ball bearings and running mechanisms	
8	Normally check that the differential air pressure switch is working	 

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MAINTENANCE LIST

Spare part	Frequence of intervention					
	Weekly	*Monthly*	*Every 3 months*	*Every 6 months*	*Every Year*	*Every 2 years*
Filter Mesh		*Clean with compressed air*				
Sealing felt						
Belts						
Gear Motor						

Check the status of the component

Change the component (adviced)

Change the component (max time)

Grease

We advice to keep one piece or set in your storehouse

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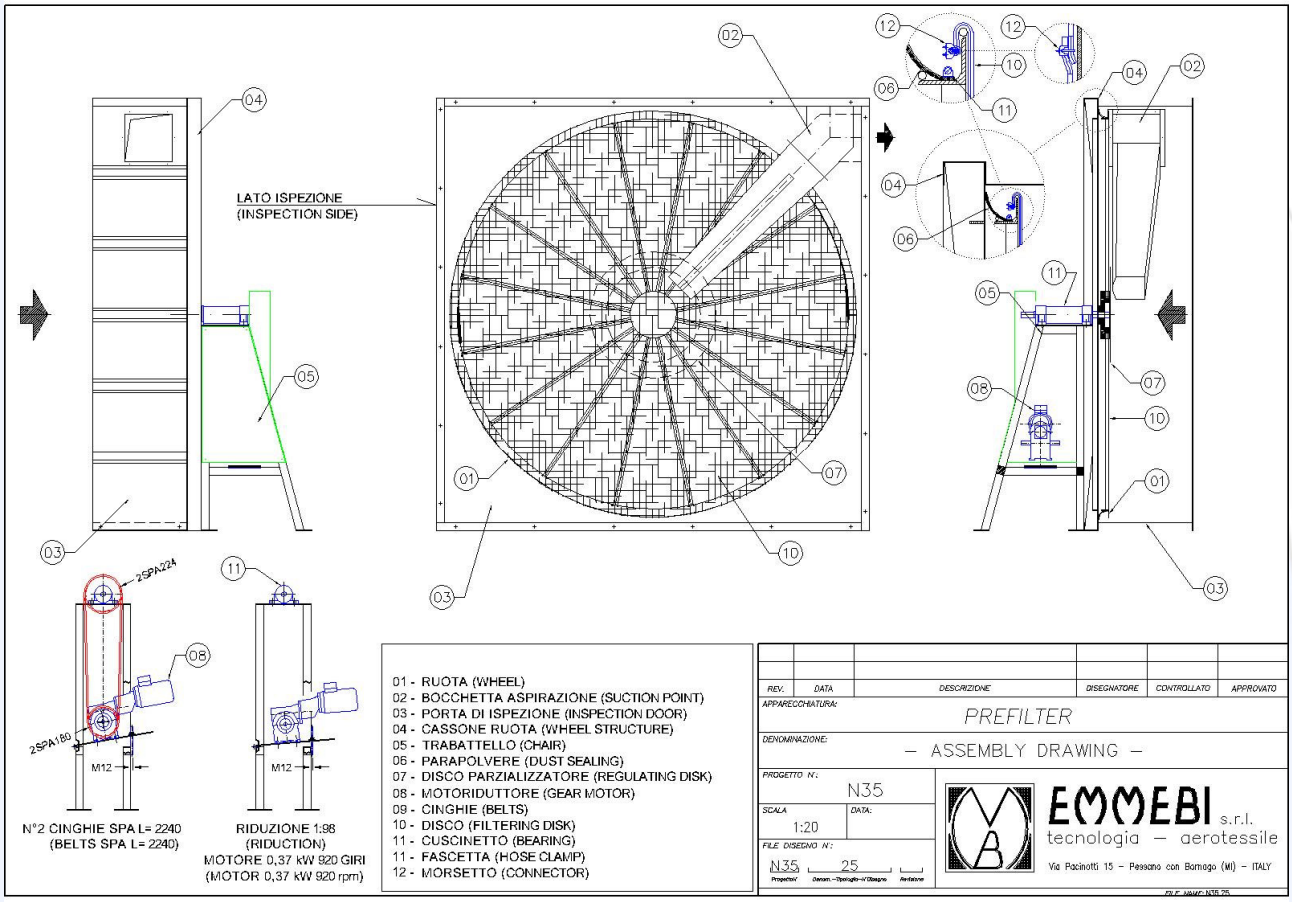
PREFILTER N35 ASSEMBLY DRAWING



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SPARE PARTS LIST

pos	ITEM	N35 - 15	N35 - 20	N35 - 25
1	Dust sealing 	5mt	7mt	8mt
2	Gear Motor 	*DIRECTLY CONNECTED TO THE FILTER MAIN SHAFT*	n.1 0,37kW	n.1 0,37kW
3	Pulley 	-	n. 1 2SPA180 n. 1 2SPA180	n. 1 2SPA180 n. 1 2SPA180
4	Belts 	-	n. 2 SPA 1737	n. 2 SPA 2240
5	Filtering mesh 	n.1	n.1	n.1

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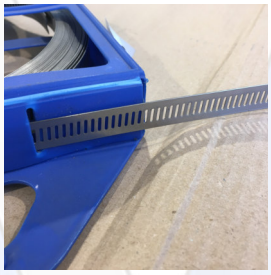
pos	ITEM	N35 - 15	N35 - 20	N35 - 25
6	CAP 40 support 	n. 1	n. 1	n. 1
7	Hose Clamp 	n.1	n.1	n.1
8	Connector 	n.1	n.1	n.1