

Filter for Intake Pit

GENERAL

Designation	Filter for intake Pit
Model	S & D
Use	Industry

1. Cleaning section

The top part of the unit is the filtrated air chamber, where pipes (fan) for exhaust air are connected to each section. A cleaning arrangement over the filter bags is mounted here.

2. Filter section

The middle part of the unit is the filter section, where the uncleaned air is filtrated before discharge or re-circulation. The filter bags ensure an efficient filtration where less than 1 mg solids per m³ air passes through the filters.

Control unit

The PLC control unit consists of a panel, which contains all functions for control of 6 to 12 D modules. A signal from "start fan" starts the operation sequence eventually integrated with a differential pressure control. In a fixed cycle, the filter bags are cleaned with compressed air step by step. This cycle is running while the fan is in operation and can continue with up to 4 cycles after the fan has stopped. Cleaning periods, intervals and after-cleaning are adjusted according to requirement.

3. Exhaust section

The exhaust hopper is placed under the filter section where the uncleaned air is sucked from the floor above the intake pit. The exhaust hopper is placed app. 625 mm over the intake pit grate.

A guide flap can be regulated up and down in order to adjust the distance to the grate from 625 to 475 mm.

An exhaust opening is placed in the bottom module. It intercepts the dust that is forced upwards by unloading. Another flap is mounted at the back wall upon which the dust (by cleaning) falls down.

4. Floor console

When the filter is mounted without support, a heavy floor console with a guide flap for the cleaned-off dust is used. On a wall-mounted filter a concrete sloping wall will be able to lead the dust back into the intake pit.

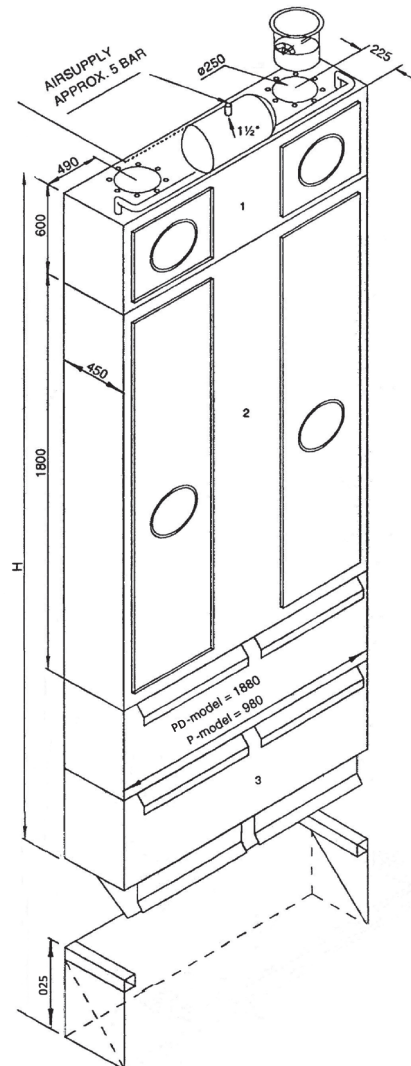
5. Distance clamp

A heavy-distance clamp can be mounted on the floor console or on the exhaust section.

Collection auger

Correctly installed, a part of the filter cannot fall directly back in the pit.

The part of a wall-mounted filter, which reaches out from the intake pit lengthwise, can be mounted with a collection auger.



Type	Filter bag length in m	Dimensions			Air NL/min.
		Filter area m ²	H mm	Weight kg	
P-1.5	1.5	5.0	3 000	195	250
P-2.0	2.0	6.6	3 000	200	340
P-2.5	2.5	8.2	3 600	230	425
P-3.0	3.0	9.9	3 600	235	500
P-3.5	3.5	11.5	4 200	260	600
PD-1.5	1.5	9.9	3 000	355	500
PD-2.0	2.0	13.2	3 000	370	680
PD-2.5	2.5	16.5	3 600	420	850
PD-3.0	3.0	19.8	3 600	435	1 000
PD-3.5	3.5	23.1	4 200	470	1 200