

Filter Technology - Intake Pit Filter

Technical Description - intake pit filter

The filter is designed for mounting on the edge alongside the intake pit (whereby the filter dust can flow back into the intake pit).

On fast tipping-off from the lorry a dust cloud will rise through the grate of the intake pit at great air velocity.

The intake-pit filter is provided with 2 slot intakes; one at low height for heavy dust, and one for light dust at a height of 1.8 m above the grate.

Thus the intake-pit filter will continue functioning, even if the entire grate is covered with product. When the air-/dust mixture has passed the suction openings, it is led up into the filter chamber, upon which the air will penetrate the filter bags from the outside.

Then the cleaned air is sucked up into the clean-air chamber, and out through the air outlet.

The compressed-air receiver is mounted on top of the clean-air chamber of the filter. 4 solenoid-activated membrane valves per module lead the compressed air to distributing pipes with nozzles in the clean-air chamber.

At the expiry of the pause time in the filter control, a short electrical pulse is sent to one of the valves, which in turn will send a strong blast of compressed air into the 4 filter bags. After the subsequent pause, the next valve is activated, etc.

The dust thus being cleaned off the filter bags will drop to the bottom of the filter where a „chute“ will carry it to the edge of the intake pit.