Case Filter

The start of your production cycle:
with plants from the specialist.

KÜNZEL

From Malt to Mash

Malt intake | Silo plants | Conveying equipment | Flat screens | Destoners | Scales | **Dust-removal devices** | Malt humidification worms | Grist mills | Pre-mashing screws | Complete plants

Case Filter

Fields of application

Künzel case filters are used wherever dust or powder products are to be separated from the air or processing gas.

These filters are designed to work safely and economically in a continuous, fully automatic cycle.

They are fabricated from high-quality steel sheet and depending on the kind of use, all parts which come in contact with the product or gas can be produced from corrosion resistant steel, such as DIN 1.4301 (AISI 304).

Operation

The dusty air is drawn into the filter bags, where the dust settles on the outer surfaces, while the air passes through the material of the bags, (e.g. polyester needled felt) and escapes through the head piece insert on the clean air side of the filter. For continuous operation, all bags are cleaned regularly with compressed air.

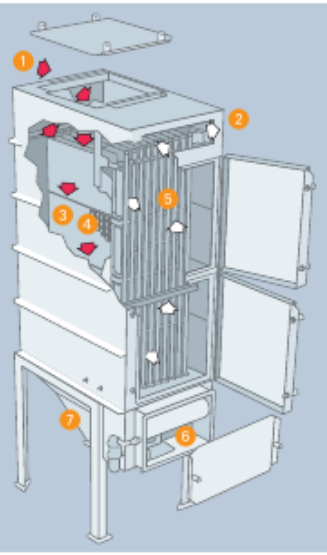
An electronic pulse actuates the control valves, one after another in a repeated cycle. The control valve opens a diaphragm valve and a short impulse of compressed air is released, passing through the nozzles into the headpiece insert, back into the bag. By this reversed air flow direction, the filter bag is briefly inflated and the dust cake clinging to the outer surface of the bag falls into the dust collector.

Each filter is equipped with an electronically operating sequence regulator, controlling the cleaning cycle and the opening time of the valve. Cycle frequency and time duration can be adjusted to fit each application.

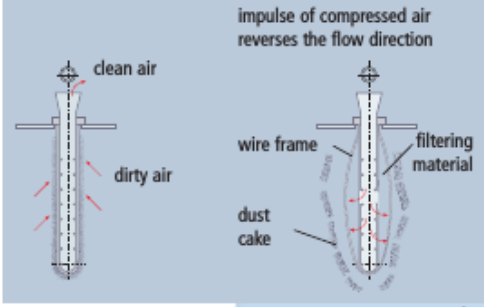
All case filters are equipped according to the VDE regulations and have a standard connection voltage of 220 V 50 cycles or 24 V DC.

Numerous accessories are available, such as a sound insulation bonnet, differential pressure control, pressure proof casings, pressure release openings with bursting discs, anti static filter bag equipment, etc.

The filter unit may be used as insert filter or yoke-type filter, being mounted on the top of the bunker.



1. crude gas intake
2. clean air discharge
3. filter bags
4. supporting frame
5. nozzle tubes
6. cleaning system by compressed air
7. dust collector



type no.	filter surface m²	length mm	depth mm	height* mm	net weight kg
FG 10-1-1	10	1,685	1,004	1,131	410
FG 10-1-2	20	1,685	1,004	1,731	570
FG 10-1-3	30	1,685	1,004	2,331	720
FG 10-1-4	40	1,685	1,004	2,931	1,100
FG 10-2-4	80	1,685	2,006	2,931	1,450
FG 15-1-1	15	2,185	1,004	1,131	725
FG 15-1-2	30	2,185	1,004	1,731	900
FG 15-1-3	45	2,185	1,004	1,131	1,150
FG 15-1-4	60	2,185	1,004	2,331	1,350
FG 15-2-3	90	2,185	2,006	2,931	1,450
FG 15-2-4	120	2,185	2,006	2,931	1,850
FG 15-3-3	135	2,185	3,008	2,331	2,200

*without support

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