

VÁPNO, CEMENT, EKOLOGIE

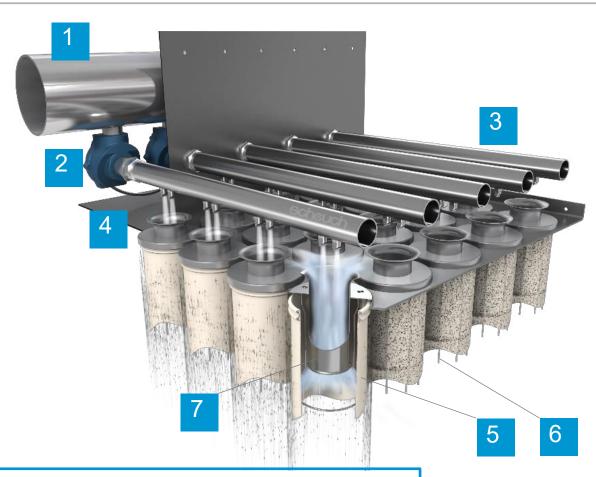
JEZERKA 26. -28. 2018

BAG FILTER COMPONENTS



Main Components

- Compressed air tank
- Membrane-valve
- Jet pipe with twin nozzles
- 4 Tube sheet
- 5 Filter bag
- 6 Supporting cage
- 7 Injector



SCHEUCH impuls - Cleaning Essentials:

twin nozzles arrangement (high rate of secondary air)
 optimum cleaning performance



PULSE JET CLEANING MODES



Online / Offline and EMC Technology

ONLINE

Bags are cleaned in the filtration mode

- constant filter area during operation
- high cleaning intensity required to crea
- "CAN"-velocity applies → degrade sed

OFFLINE

Filter bags are cleaned in no-flow cond

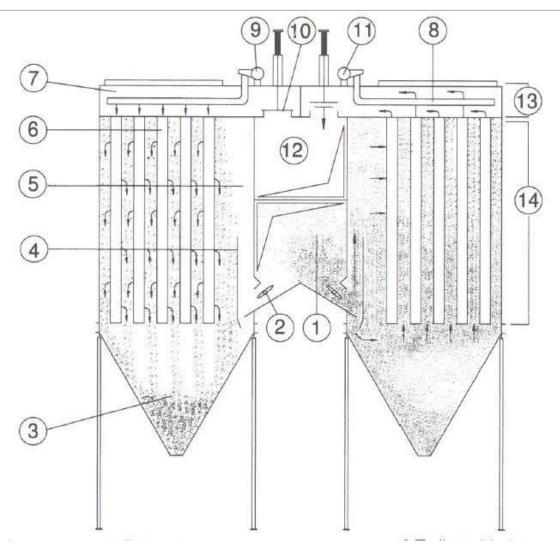
- available filter area varies in operation
- low cleaning intensity required, as clea
- Zero "CAN" velocity → improved sed



Energy Minimizing Conce

Just a few bags are cleaned in no-flow modules

- constant filter area during operation
- · low cleaning intensity required, as cleanir
- Zero "CAN" velocity → improved sedimentation of removed dust

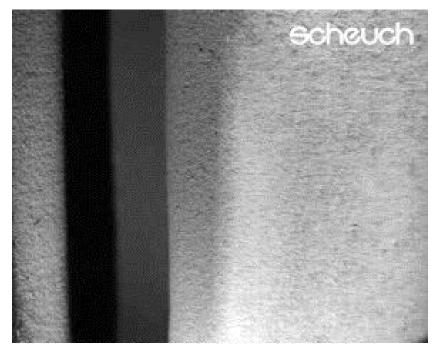


IMPULS - CLEANING SYSTEM



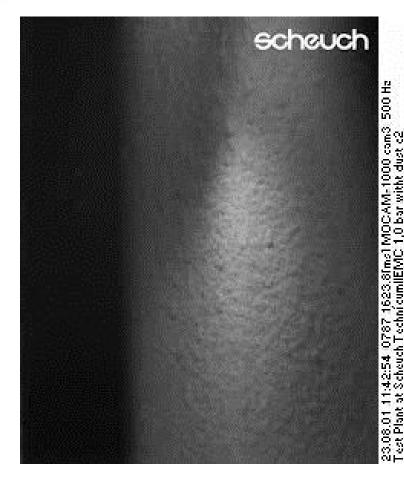
EMC – The Benchmark In Filtration

ONLINE



23.08.01 14:51:29 1820 3758.0Fms1 MOCAM-1000 cam3 500 Hz Test Plant at Scheuch Technicum IIOnline 5,0 bar with dust





EMC – BAGFILTER THE BENCHMARK IN FILTRATION





THE SCHEUCH FILTER PLATFORM



Product Overview Filtration => the SMC Filters





Space Minimizing Concept

- Flat bag Filter
- Horicontal and vertical arrangement
- Pre-assambled modules
- Patented filter bag technology







SCHEUCH Bag Filter Type fi-m - vertical

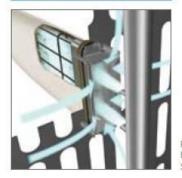




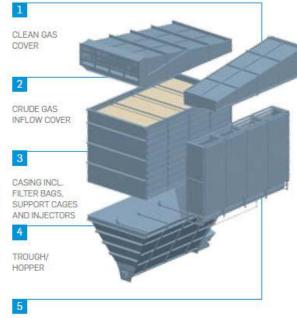


SCHEUCH Bag Filter Type fi-m - horizontal

- CRUDE GAS INFLOW COVER WITH FLOW EQUALISER
- 2 CLEAN GAS OUTLET (VIA THE COVER OR THE CLEAN GAS CHAMBER AT THE SIDE)
- FLAT BAG PACKAGE IN HORIZONTAL ARRANGEMENT
- JET PIPES IN THE CLEAN GAS CHAMBER
- PNEUMATIC CLEANING SYSTEM
- DUST COLLECTING TROUGH AND HOPPER WITH DISCHARGE SYSTEM







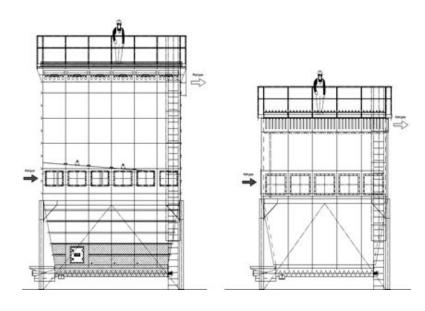
FILTER HEAD WITH CLEANING SYSTEM AND WIRING





SCHEUCH Bag Filter Type fi-m - vertical

- Reduction in bag house volume and height by the factor of 2
- Shipment in pre-assembled main components:
 - filter housing (incl. filter bags)
 - ash hopper
 - filter cleaning system







SCHEUCH Bag Filter Type fi-m

- Single or multi compartment filter in welded design
- Oval shaped filter bags
- Bag dimensions 47 x 200mm correlates with 150mm Ø
- Length of filter bags:
 - 2.890 mm vertical
 - 2.730 mm horizontal
- Indoor + outdoor installation
- Snapring-Sealing
- 100% leak-proof
 Snapring is pressed against the tube sheet with the help of the injector









Filter Cages for Filter Type fi-m

- Solid industrial design
- Design with 18 longitudinal rods available for use of membrane type filter bags





Filter Cleaning System – SCHEUCH Bag Filter Type fi-m

- Tank-integrated diaphragm valves high efficiency / low noise emission
- Solid one piece diaphragm without spring
- Easy coil replacement by twist-on-coils
- Pre-assembled assembly units
- Pre-insulated







References – SCHEUCH Bag Filter Type fi-m

RHI Normag A.S. - Norwegen





THE SCHEUCH FILTER PLATFORM



Product Overview Filtration – the FISN Series



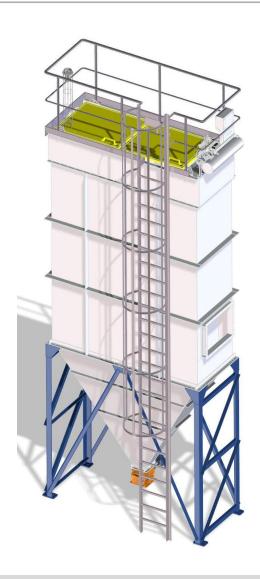
SFD / FISN



- Bag diameter 165mm
- Standard bag length up to 5 m
- wide range of applications
- EX proofed types available

FISN - FILTER SERIES





- Based on the traditional SFD platform but optimized for local fabrication
- Bags d=165mm; 2250mm 5000mm bag length
- Scheuch Impuls cleaning system (compressed air header outside)
- Aiflows 2.000 up to 75.000 m³/h
- Application: General Dedusting <50mbar <80°C

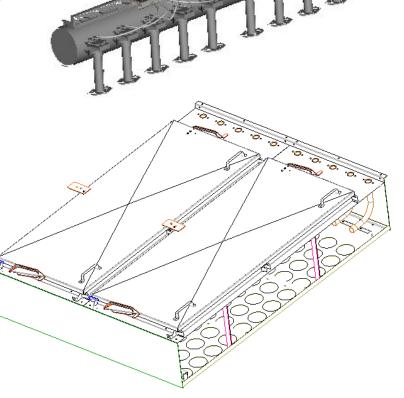
FISN - FILTER SERIES



Minimum IMPORT scope:

 Compressed air header with pre-wired cleaning controller incl. jetpipes and venturinozzles, filterbags and supporting cages





DEVELOPMENT HOT GAS FILTER





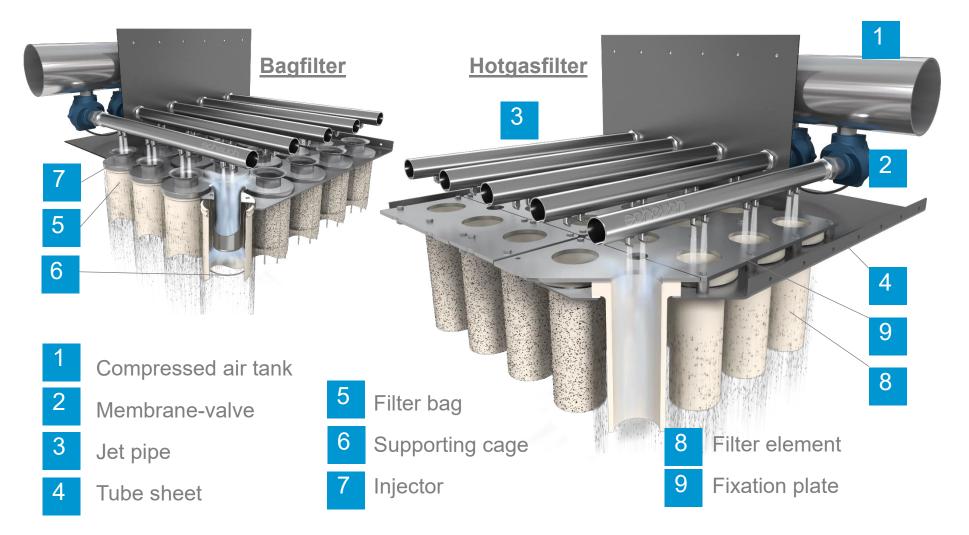


1st Discussions

HOT GAS FILTRATION



Cleaning Technology



HOT GAS FILTRATION



Advantages and Application Areas

Advantages:

- High temperature resistance of the filter elements
- Efficient cleaning based on proven:

MOUS - Cleaning System

CMC - Filter Technology

- Lowester differential pressure
- High dust loads possible
- High filtration efficiency
- Long lifetime of the filter elements
- Compact design at highest availability
- Combined mission abatement in one unit: dedust - desox - denox



Application Areas:

Mercury reduction

Cost-efficient and reliable heat recovery possible

Possible catalytic denitrification







Hot Gas Filter as KEY PART

Client:

Schwenk Zement KG

Place of installation:

Allmendingen Germany

Start-Up:

October 2017 STAND BY NOW

Highlights:

Integration of the system within the preheater tower

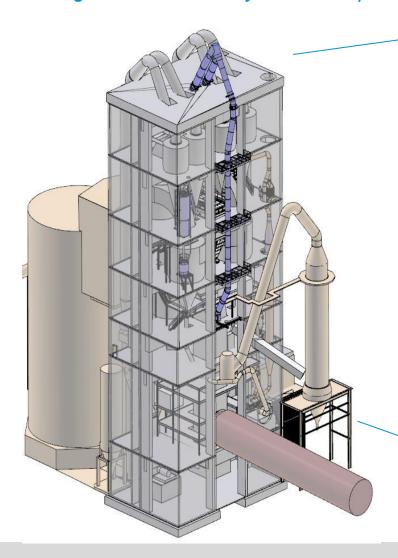


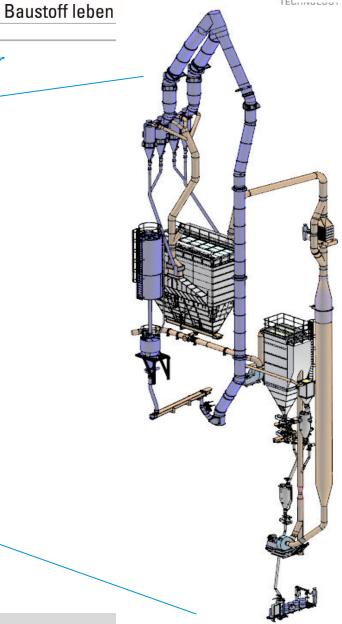
XMORCULY FOR SCHWENK





Integration of xmercury within the preheater tower



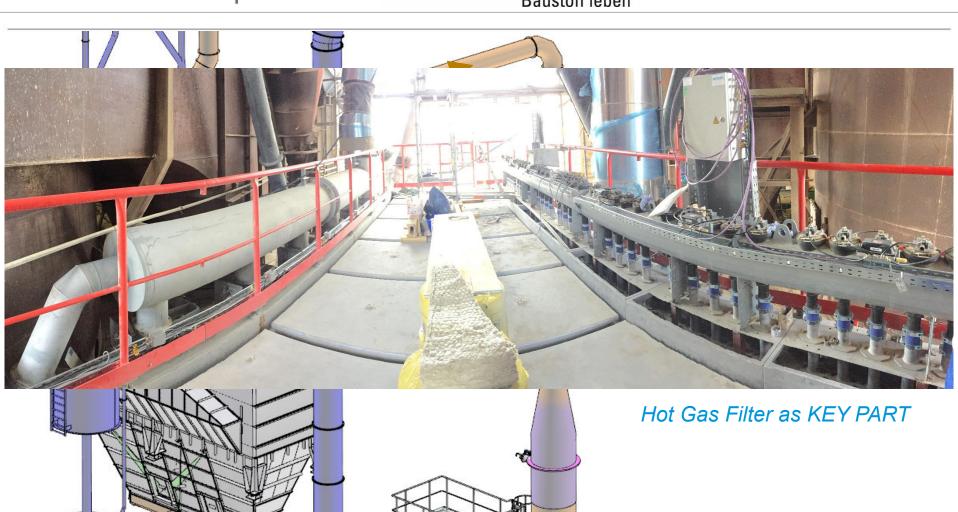


XMORCULY FOR SCHWENK





Baustoff leben





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