

The new generation of filters - "strong in aspiration – good for the environment"



# Schuko

**VALIDUS**

## Filter technology



“The strong one from the Teutoburg Forest!”

**Schuko**

Dust extraction and filter technology





## 1 Filter regeneration options for continuous operation:

An efficient cleaning of the filter ensures a long lifetime of filter hoses as well as operational safety of the filter plant.

The **pneumatic-mechanical shaking system** for separating various kinds of dust comes as standard. It serves the basic cleaning of the filter bags in the plant shutdown.



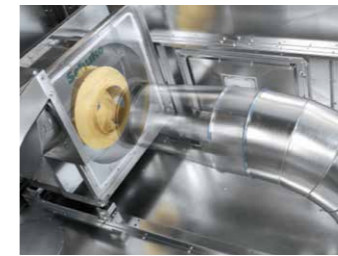
**Stationary compressed air regeneration.** The maintenance-friendly plug-system with an optimized compressed air tank and redesigned outlets prolongs the lifetime of the filter hoses. (Optional)



**Cleaning with a flow-efficient scavenging air cart,** fitted with a cable break protection device, ensures reliability and raises operational safety during permanent operation. For use in series filter systems. (Optional)



**Mobile compressed air regeneration** for use in series filter systems. It combines the advantages of the stationary compressed air regeneration with additional intensive cleaning function and improved maintenance practices. (Optional)



## 5 The fan, the heart of the extraction system.

The best possible extraction performance is reached individually by using different fans, performance levels from 11 to 37 kW. Our own fan construction and production makes sure that every customer receives the suitable fan. In case the requirements increase, the plant is extendable at any time.



## The cascade system

ensures reduced electricity costs and more reliability. The fans with 4 or 5,5 kW are arranged in a flow-optimized manner and are enabled or disabled according to the circumstances. (Optional)



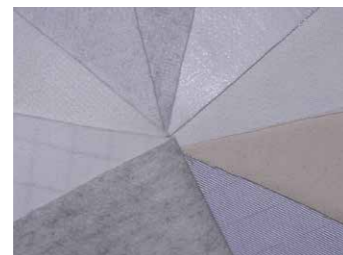
## 6 The pressure relief surfaces

increase safety in the event of an explosion. An optional A deflection of the flame front and explosion pressure wave from the horizontal to the vertical upwards increases safety additionally.



## 2 Increased filter surface

allows malfunction-free performance of the extraction system. Raising the filter surface by 21% per element enables an even more effective strain of the filter material and prolongs the lifetime of the filter hoses drastically.



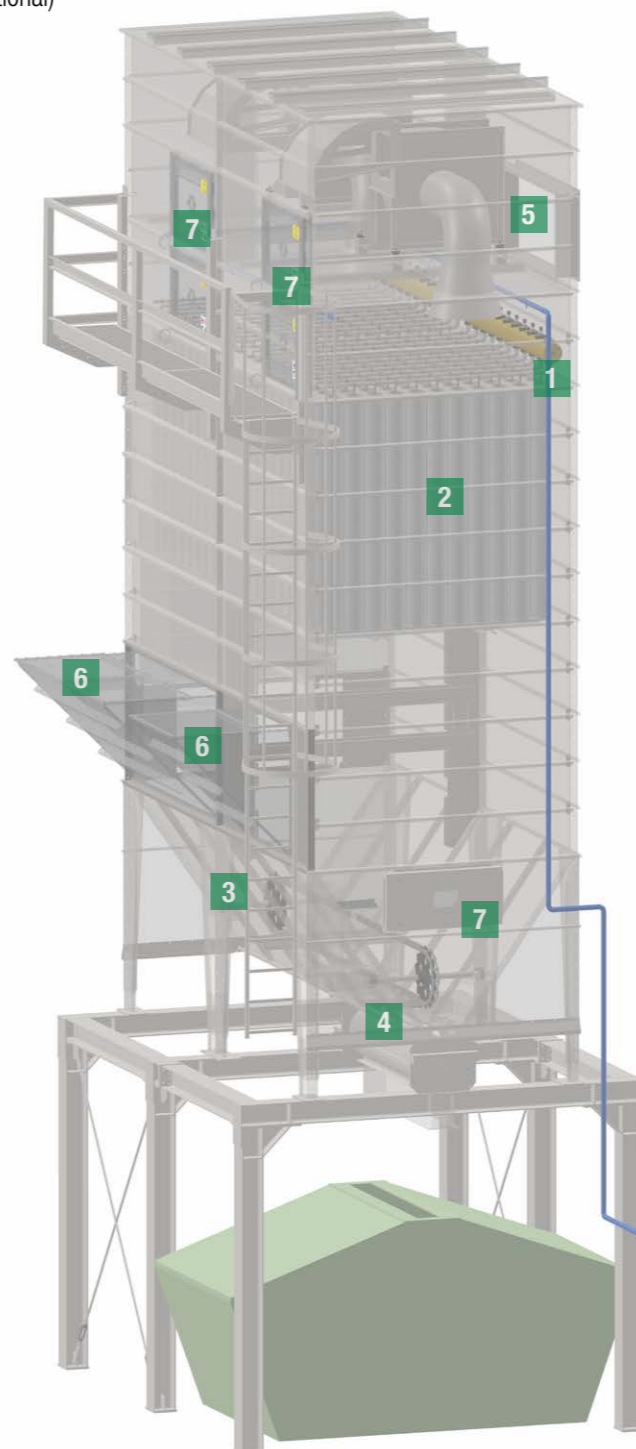
## 2 High-quality filter material

for various dusts guarantees clean and healthy air (certified amount of residual dust < 0,1 mg/m<sup>3</sup>). Effective prevention of material build-up. Easy cleaning due to the outside contaminated filter hoses, which also makes them especially durable and long-lasting.



## 3 Low maintenance costs

due to easily accessible lubrication points e.g. of the external bearings. Located safely and protected, they cannot be polluted, which extends their durability. Furthermore, all Schuko spare parts are available long-term and quickly.



## Material quality.

Galvanized steel sheets guarantee perfect corrosion protection which ensures security of investment and durability. Even at the purchasing stage, we pay attention to the highest surface quality for a permanently attractive system.



## 7 Maintenance-friendly, large inspection doors

offer easy access to the crude gas area and the clean gas area - including a safety switch. Optionally, these can also be equipped with a pressure-resistant inspection glass for the filter area.



## Sound and heat isolation.

Additional enclosure panels, isolated with 80 mm thick mineral wool plates, provide an energy saving and quiet operation of the system. The isolation is also available subsequently! (Optional)



## 4 Material transport.

Quiet operation through optimized, low vibration material scrapers. The enlarged shaft diameters of the drive and output shaft, as well as solid chain wheels in grey-cast iron design ensure great durability.



## 4 Reliable extraction

achieved by high-quality chain-extraction: reinforced design, no material build-up, self-tightening and maintenance-free. Wear-resistant through steeper funnel angles and reinforced, exchangeable floor panels.



## 3 Operational safety.

Improvement of failure safety by monitoring the transport chain and rotary valve with an inductive sensor. (Optional)



## Low cost of transport.

The symmetrical filter design with standardized measurements guarantees an economical transport by truck.



## Fast on-site assembly

due to the modular filter system with individually preassembled filter elements. The system can be modified and extended according to your needs.

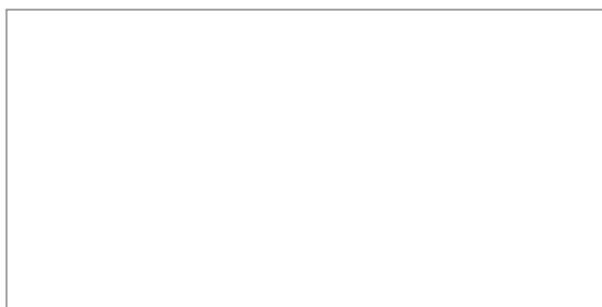
## Example: 3D Model

VALIDUS consisting of 2 Elements with rotary valve extraction into a container (to be provided by customer)





**VALIDUS – you know what you get.**



**Schuko**

Dust extraction and filter technology

**+49 (0)7581 / 4871-0**  
**international@schuko.com**

49196 Bad Laer · Gewerbepark 2  
88348 Bad Saulgau · Mackstraße 18  
97478 Knetzgau · Industriestraße 22  
55481 Kirchberg/H. · Kappeler Str. 20 a  
14959 Trebbin · Heinrich-Schulte-Südhoff-Str. 1  
25451 Quickborn · Pascalstr. 22  
62-561 Ślesin, POLAND · Kolonia Sarnowa · Biskupie Sarnowskie 9  
Service

+49 (0)5424 / 806-0  
+49 (0)7581 / 4871-0  
+49 (0)9527 / 9228-0  
+49 (0)6763 / 30319-0  
+49 (0)33731 / 867-0  
+49 (0)4106 / 7671-0  
+48 (0)63 / 2456400  
+49 (0)180 / 1111900

· info@schuko.de  
· saulgau@schuko.de  
· knetzgau@schuko.de  
· kirchberg@schuko.de  
· trebbin@schuko.de  
· quickborn@schuko.de  
· slesin@schuko.pl  
· service@schuko.de

**www.schuko.com**