

CASE STUDY

Replacement filter mats from filtermatten-shop.de protect control cabinet electronics from dust at Isenmann Siebe GmbH

Regular filter mat service avoids overtemperature in the control cabinet due to dirty filter mats

The in Karlsruhe based company Isenmann Siebe GmbH is specialized in the development and manufacture of industrial sieve diaphragm. With an extensive range of machinery, the company produces high-quality screening products made of steel, rubber and plastic for the processing of bulk materials in gravel and sand works, quarries, ore and coal processing plants and sugar factories.

“Customers from all over the world have trusted our high-quality, reliability and punctual order processing for decades. For this it is indispensable that our production and processing machines are always available in order to achieve the throughput times as planned and to be able to supply our customers as quickly as possible”, says the company’s management.

The machine control plays a key role here. If it fails, the production stops. In addition to downtime costs, promised delivery dates can also be at risk.

The control of each machine is housed in a dustproof switch cabinet to protect it from industrial environments. In order to avoid excessive temperatures caused by the heat load of the built-in electronics,



so called control cabinet filter fans and outlet filters are used continuous heat dissipation and ventilation. Filter fans suck in cool outside air and press it into the control cabinet.

Exhaust filters are used for the air outlet.

Filter mats for air filtration are used in the filter housings to ensure that only clean air can enter the control cabinet. The filter mats must be cleaned or replaced regularly so that the control cabinet is always supplied with enough fresh air.



Removing the dirty filter mat

About the filter mat shop

The filter mat shop is a service of MBI GmbH and offers quality filter mats in different quality classes (G2, G3, G4, M5) as cut to size or as roll material for self-cutting. Customers can choose between two materials: Single use polyesters or multiple use polyolefins. Polyester filter mats are an inexpensive solution which is conditionally regenerable. The fibres of polyolefin filter mats are coated, which makes it easier to remove the dirt particles (by sucking, beating, spraying or washing them out). The filter mats are progressively constructed and thus dirty for a long time in the depth. This means long service lives and extended service intervals. Standard products can be conveniently ordered online and are usually immediately available from stock. The filter mat shop offers special blanks from 50 pieces.

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Isenmann has been purchasing replacement filter mats for its control cabinet filter fans and outlet filters from filtermatten-shop.de for over two years.

“The reason for the decision to purchase from filtermatten-shop. de was simply the complete package tailored to our needs”, says Alen Vukelic, who is responsible for the maintenance of electrical systems at Isenmann Siebe GmbH. “To date, we had roll stock in use, which we had to store and time-consuming cut to size ourselves. At filtermatten-shop. de the situation is different - our required cut sizes are available in stock, just in time and exactly in the quantity we need, without packaging units. And all that at a fair price”.



Inserting the new filter mat