

EDRIZZI Spray Filter System

Typ AUTOMOTIVE 500-B-FH

Typ AUTOMOTIVE 500-B-NF

DbEA5.01.10.e

EDRIZZI SPRY FILTER SYSTEM AUTOMOTIVE 500



Description

The new EDRIZZI spray filter system, AUTOMOTIVE 500 is an advanced development and is deployed in manual and automatic painting booths for separation of overspray from the exhaust air. It can similarly, also be used in booths in which adhesives are processed. It is characterised particularly by its high absorption capacity and high level of stability. Moreover, it can be erected within a short period of time since it can be assembled without any devices or tools.

The core of the technology is a handy cube having a labyrinth inside. The entire EDRIZZI spray filter system is manufactured using corrugated cardboard, which is a naturally renewable raw material or recycled material. The requirements placed on it regarding fire and moisture in painting booths are met with the help of special treatment of the corrugated cardboard. There are two different design variants for this purpose: Type FH for flame-retardant design and type NF for water-proof design. The separation of the particles takes place inside within the labyrinth of the cube, primarily by the effects of inertia.

When compared with other commercially available spray filter systems, EDRIZZI is characterised, above all, by high absorption capacity, cost-effective upgrade, fast filter change times and simple disposal.

EDRIZZI rack elements can be used as supported structures [for this see data sheet DbEE5.01.06.de] or as EDRIZZI slide-in rails in the under-floor area [see data sheet DbES.01.06.de for this]. With the help of these constructional designs, the EDRIZZI spray filter system can be easily and quickly combined to form a filter wall of any desired size depending on the dimensional variants available. The manufacturer recommends installation in the metallic sheet frame.

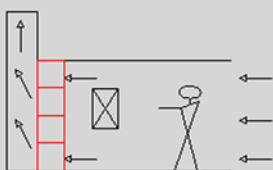
EDRIZZI application image



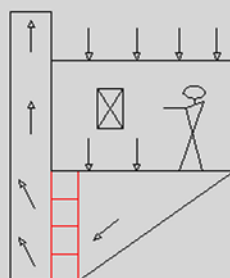
Application

EDRIZZI 500 spray filter system can be installed in all new plants having horizontal or vertical ventilation or a combination of both. They can also be mounted in a slanted position or in the under-floor area. It is easy to upgrade or retrofit existing systems provided adequate space is available. To ensure proper sealing arrangement, the EDRIZZI spray filter system after they have been installed, the joints with adjacent boxes must be closed using adhesive strips [see the illustrated application for this purpose]. After attaining saturation, partial replacement is possible without having to exchange the entire filter wall.

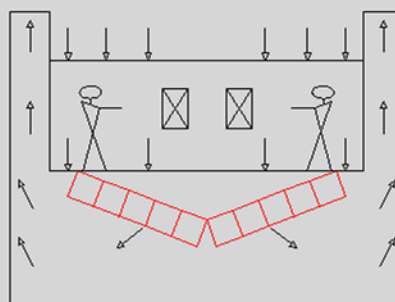
Various application system



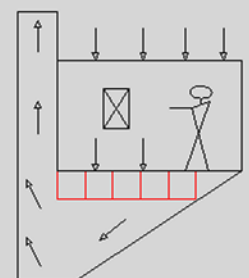
horizontal



vertical/horizontal



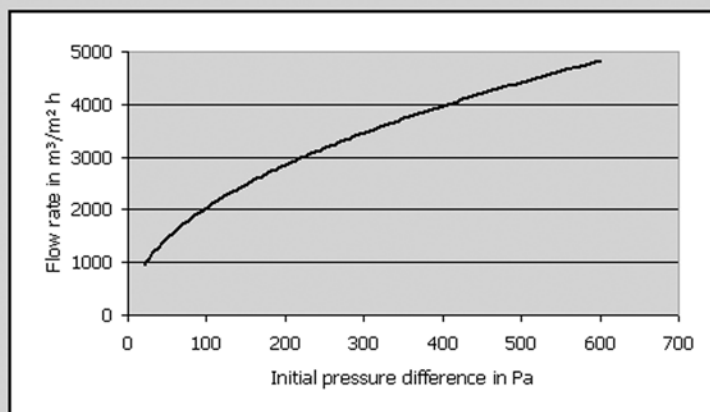
vertical/horizontal at the example of
EDRIZZI Swing out filter DbESF.01.06.de



vertical

Specification EDRIZZI Spray Filter System

Type	AUTOMOTIVE 500-B	
Filter class		Spray filter system
Uptake capacity	[kg/m ²]	up to 100
Nominal flow rate	[m ³ /m ² h]	2000
Sens. Velocity of approach	[m/s]	0,25 - 2
Initial pressure difference at nominal flow rate	[Pa]	80
Separating rate	[%]	up to 97
Temperature resistance	[°C]	up to 80
Moisture resistance	Coop	100-150g/m ² in 30 min.
Net weight	[g]	1650

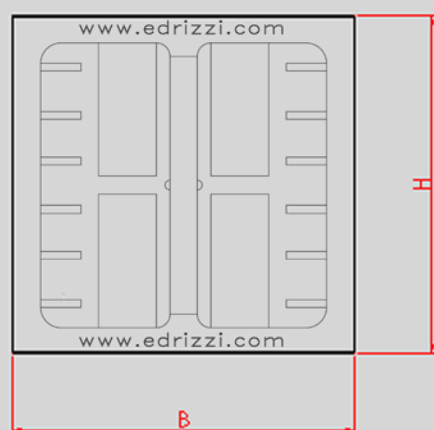


Typ AUTOMOTIVE 500-B-FH Flame-retardant design
Typ AUTOMOTIVE 500-B-NF Water-proof design

All specifications have been prepared in our in-house laboratory under seemingly realistic and practical painting conditions, but, however, no commitments can be derived on this basis. The specifications regarding the volumetric flow in m³/m² hr. have been rounded and have been converted accordingly. The values for weight are net weight without packaging. Specifications regarding resistance to moisture or temperature conform to DIN 4102-1 or the specifications of the corrugated cardboard manufacturer and have been taken over from these.

In the design variant EDRIZZI AUTOMOTIVE type 500-A-NF, a 125 gm. "Kraft liner" (liner) has been used in the manufacture of the corrugated cardboard for providing moisture resistance. The water absorption may not exceed 100 – 150 gm. per m² within a period of 30 minutes. The paint storage capability and thus, the recommended final pressure differential is dependent on the paint material used and can vary considerably with EDRIZZI spray filter systems. If the air flow speed in the booth falls drastically below the specified statutory limit, the spray filter system should be replaced.

EDRIZZI dimensioned drawing



Type	Dimensions in mm		
	B	H	T
EDRIZZI AUTOMOTIVE 500-B-FH	486	487	496
EDRIZZI AUTOMOTIVE 500-B-NF	486	487	496

Dimensional tolerance +2mm /-2mm

EDRIZZI System



- 1 EDRIZZI spray filter system, AUTOMOTIVE 500 data sheet DbEA5.01.10.e
- 2 EDRIZZI rack element data sheet DbEE5.01.06.e

If required, our post-filtering system, type NFE WP01, data sheet DbEN.02.10 or post-filtering system, type NFE 02, data sheet DbEN.01.10.de can be used for post filtering.