Electrostatic precipitator

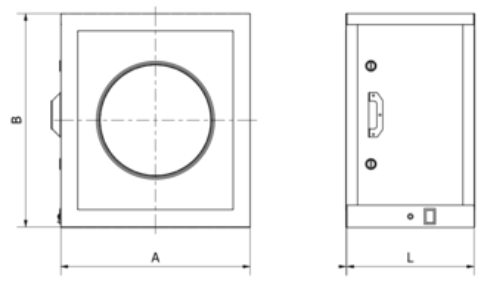
e-MOCarz

Description

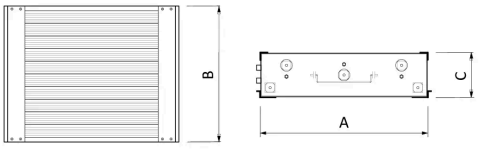
Electrostatic precipitator e-MOCarz was design for residential buildings. Compact size and exceptionally low pressure drop makes it suitable for residential heat recovery systems, with little impact on system performance. The filtration efficiency of ePM1 and ePM2.5 particles, the main component of smog, is as high as 95%.
Polluted air initially passes through a steel mesh pre-filter (which retains larger fractions), then is positively ionized in an electric field due to the “crown discharge” effect. In the last stage, the previously charged particles, are pulled by electrostatic force toward horizontally mounted aluminium plates (electrodes) and build up on their surface.
Electrostatic filters (precipitators) have low power consumption (only few Watts), long service life and most of all there’s no need to exchanged dirty (clogged) filters. It is enough to clean in with water and detergent once or twice a year. There is a led status indicator on the casing.
Filer should work within 360 - 720 m^3/h.

Available accessories:
e-MOCarz-W - renewable electrostatic filter, included in the set
e-MOCarz-ION - Ionizing module, additionally sterilizing and revitalizing air
e-MOCarz-CA - Activated carbon module, additional filtration of odors
e-MOCarz-PR-160 - round Ø160 connector
e-MOCarz-PR-200 - round Ø200 connector
e-MOCarz-PR-250 - round Ø250 connector

Dimensions



e-MOCarz-W



Code	A [mm]	B [mm]	L [mm]
E-MOCarz	340	385	230
E-MOCarz-W	325	283	105

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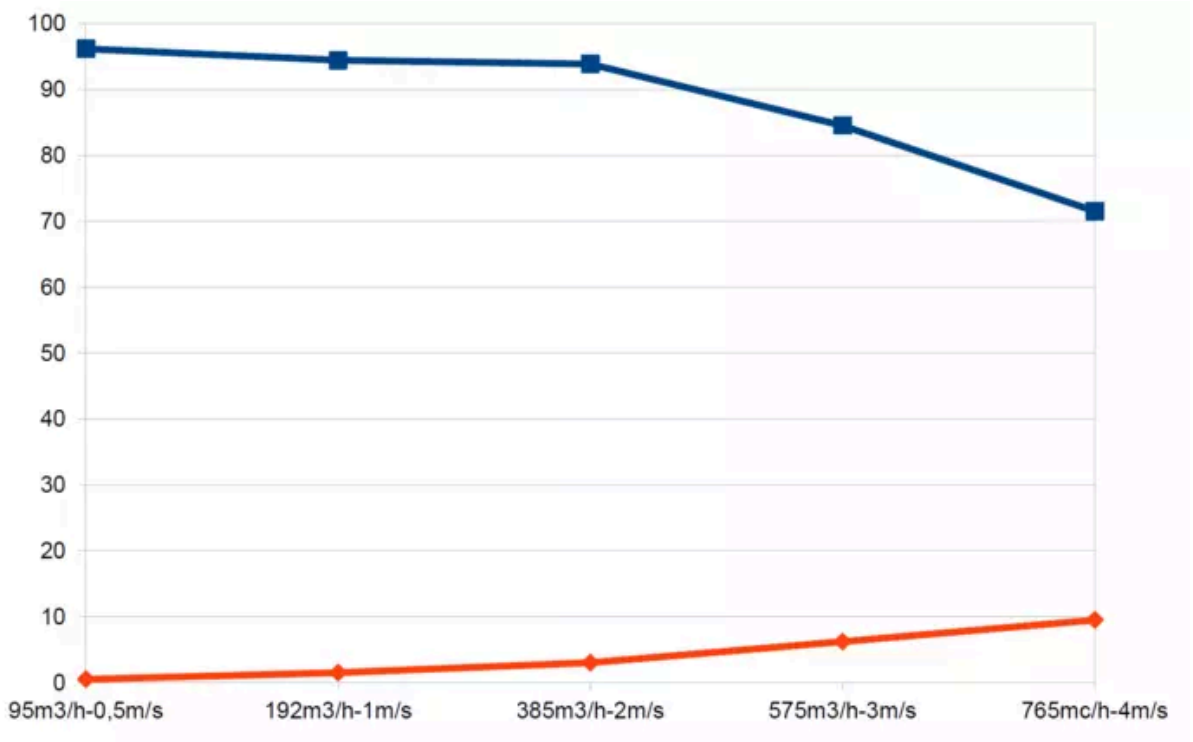
e-MOCarz

Technical Data



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e-MOCarz

Model	*Air flow [m3/h]*	*Max filtration efficiency acc. to EN ISO 16890*	*Power [W]*	*Weight [kg]*
e-MOCarz	360 - 720	ePM1 95%	9	11

Filtration efficiency acc. to EN ISO 16890		
ePM1 95%, ePM2.5 95%	ePM1 90%, ePM2.5 95%	ePM1 80%, ePM2.5 90%
360 m 3 /h	540 m 3 /h	720 m 3 /h
2 m/s	2.5 m/s	3 m/s

O3 emission	*ΔO3 [ppb]*	*ΔO3 [µg/m3]*
1 m/s	20,3	39,8
2 m/s	13,0	25,5
3 m/s	8,3	16,3

e-MOCarz-W

e-MOCarz-CA

e-MOCarz-ION

e-MOCarz-PRL

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