

# Filter box

# AFDK



## Description

AFDK filter boxes are used for supply air cleaning with pocket type cleaning filters inside, pre-filter class ISO Coarse 70%, or ePM10 70%, or ePM2.5 70% according to ISO 16890 can be used. The filter is easily replaced with the top cover removed. AFDK type filter boxes are designed for installation in circular duct systems.

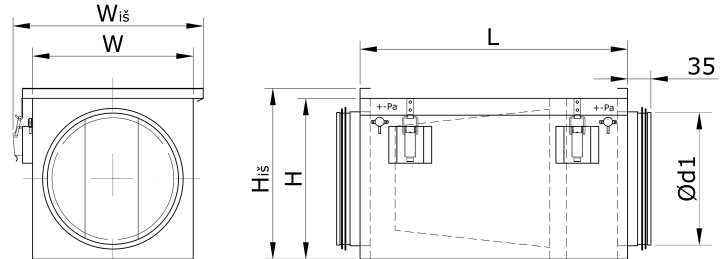
The products can be made of: galvanized steel sheet - corrosion class C3-L / C2-M; sheet with aluminium zinc coating - corrosion class C4-M / C3-H; stainless steel sheet AISI 304 (1.4301) or AISI 316L (1.4404) - corrosion class C5. Filter box is made with double seal gasket EPDM with self-slip material inside. Tightness class C according to LST EN 1506 and LST EN 12237. The filter box can be used at temperatures from -45 to +70 °C with appropriate insulation.

## Ordering code

Galvanized steel -	..... AFDK100Coarse
AISI 304 - NP	
AISI 316L - 316NP	
Aluminium zinc - AZ	
Product	
Size	
With filter Coarse, ePM <sub>10</sub> , ePM <sub>2,5</sub>	

Sample: AFDK100Coarse – made of galvanized steel sheets, filter fox with connection 100 mm with filter inside, class - Coarse 70%.

## Dimensions



Ød1 [mm]	W [mm]	H [mm]	L [mm]	W <sub>is</sub> [mm]	H <sub>is</sub> [mm]	Mass [kg]
100	200	200	500	230	215	4,7
125	200	200	500	230	215	4,7
160	200	200	500	230	215	4,8
200	300	300	500	330	315	7,2
250	300	300	500	330	315	7,4
315	500	500	650	530	515	13,8
355	500	500	650	530	515	14,2
400	500	500	650	530	515	14,2
500	600	600	650	630	615	15,2
560	600	600	650	630	615	15,3

## Technical data

It is recommended to install the filter box as the first element of the system that will clean the air from dust and other components in the system (fan block, damper, electric or water heater) to protect against dirt. According to the standard LST EN 13779, permissible pressure losses through the filter Coarse - 100 Pa, ePM<sub>10</sub> - 150 Pa, ePM<sub>2.5</sub> - 250 Pa. The lower the pressure, the lower the electricity consumption will be in the ventilation system.

Product	Filter dimensions [mm], (width x height x pocket length – quantity, possible filter class)
AFDK100	188x188x360-2, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK125	188x188x360-2, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK160	188x188x360-2, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK200	287x287x360-3, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK250	287x287x360-3, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK315	490x490x535-5, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK355	490x490x535-5, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK400	490x490x535-5, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK500	592x592x535-6, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>
AFDK560	592x592x535-6, Coarse 70, ePM <sub>10</sub> , ePM <sub>2,5</sub>



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## Pressure measurement

The standard filter box is equipped with pressure measuring nozzles, which make it possible to determine the level of pollution of existing filters. Any mechanical or liquid manometer can be connected to these nozzles. The pressure gauge display allows you to see the pressure drop through the filter and plot the filter change based on the measured real numbers. The lower the system pressure drop, the less power is consumed by the power supply or exhaust fans. If required, the AFDK filter box can be ordered with one of two possible types of manometer:

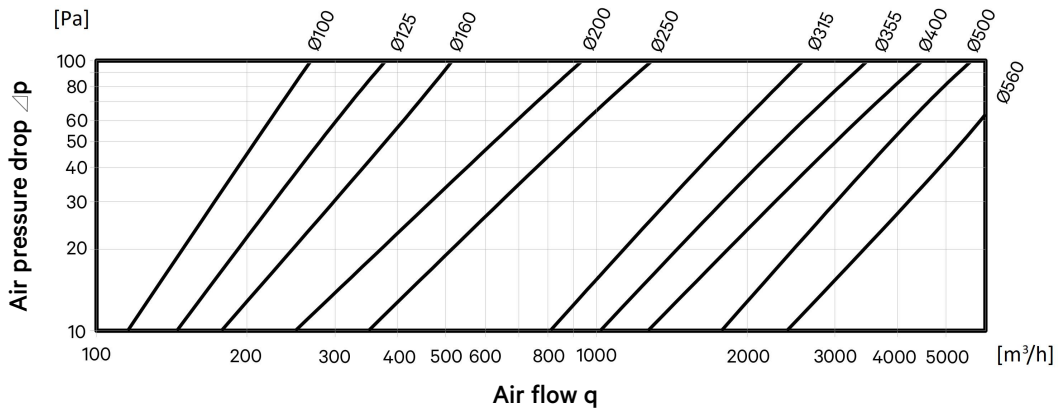
1 – The mechanical manometer is intended for use in rooms where the air temperature is from -5 to +60 °C. Measurement accuracy 2% of value.

2 – The liquid manometer is intended for use indoors or outdoors, protected from the effects of water or snow, where the air temperature is from -40 to +60 °C. Measurement accuracy 10 Pa.

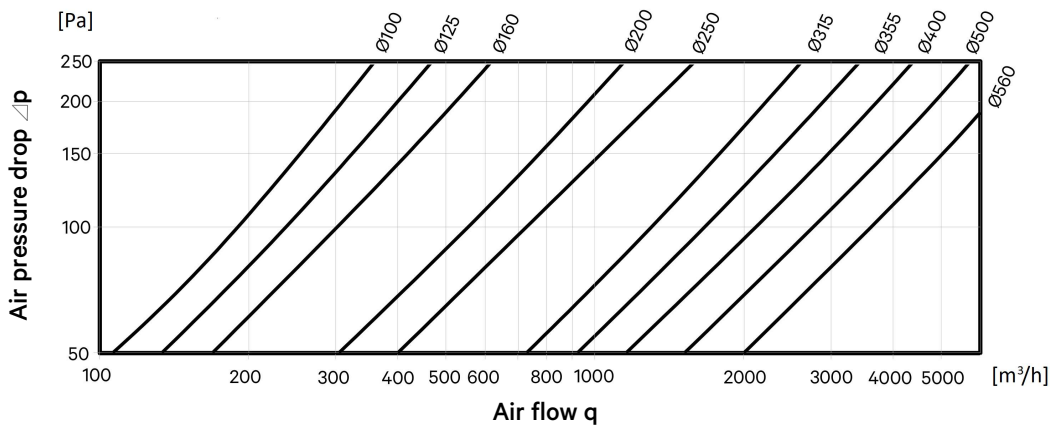


## Technical data

**With Coarse 70% clean filter**



**With ePM<sub>10</sub> 70% clean filter**



**With ePM<sub>2,5</sub> 70% clean filter**

