

CARBOPLEAT AND DUOPLEAT CASSETTE FILTERS

WITH ACTIVATED CARBON TO COMBAT BAD ODORS

FILTER TYPE	STRUCTURE OF THE FILTER SURFACE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
CarboPleat	Activated carbon granules fixed between two nonwoven layers	–	–
DuoPleat	Activated carbon medium combined with a high-performance nonwoven	ISO ePM10 80%	M 6



The application

CarboPleat activated carbon and DuoPleat combi filters improve indoor air quality and protect both people and sensitive products, processes and equipment by eliminating or reducing environmental pollutants and unpleasant odors.

The characteristics and benefits

- The activated carbon media of both filters are fixed by a patented binding process and provide a maximum of active surface for efficient gas adsorption.
- DuoPleat combi filters simultaneously ensure particle filtration thanks to their additional 3-layer high-performance nonwoven on the upstream side. The large built-in filter surface and the special structure of the filter media result not only in a particularly

high storage capacity and long service life, but also very low pressure drops.

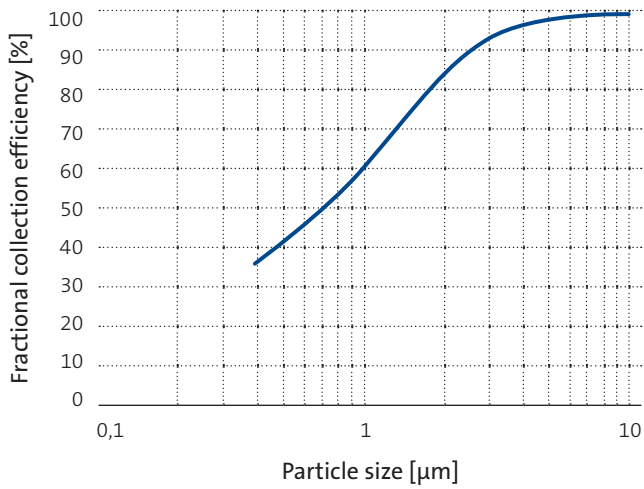
- The indicated filter capacities have been developed according to ISO 11155-2 and are based on a 95% breakthrough for toluene and n-butane and 90% for SO₂. The concentrations of the test gas are 80 ppm (toluene and n-butane) and 30 ppm, respectively (SO₂).

GEOMETRIES AVAILABLE		CARBOPLEAT			DUOPLEAT		
		1/1	5/6	1/2	1/1	5/6	1/2
Nominal volume flow rate	m ³ /h	3,400	2,700	1,500	3,400	2,700	1,500
Filtering area	m ²	6.2	5.0	2.8	7.4	6.0	3.3
Front bezel for mounting frame	mm	592×592×25 610×610	490×592×25 508×610	287×592×25 305×610	592×592×25 610×610	490×592×25 508×610	287×592×25 305×610
Overall depth	mm	292			292		
Weight, approx.	kg	8.0	6.5	4.7	6.0	4.9	3.5
Thermal stability	°C	70			70		
Recommended operating conditions:							
Temperature	°C	< 30			< 30		
Relative humidity	%	< 60			< 60		

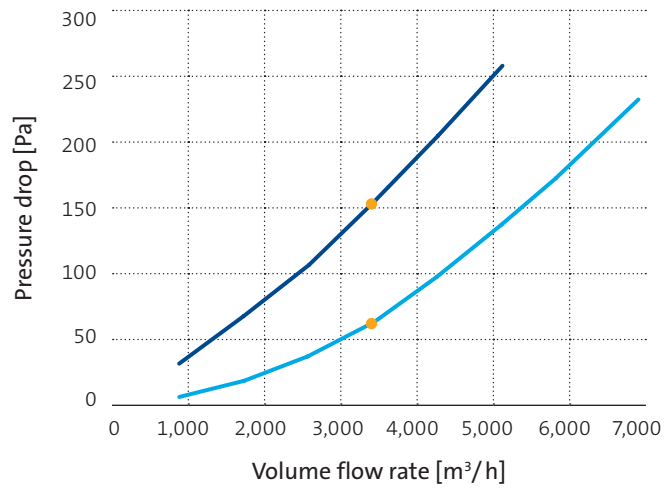
TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

ACTIVATED CARBON CAPACITY ACCORDING TO ISO 11155-2

Fractional collection efficiency curve



Initial pressure drop curve



— DuoPleat — CarboPleat ● Nominal volume flow rate

KEY DATA		CARBOPLEAT	DUOPLEAT
Nominal volume flow rate	●	m³/h	3,400
Initial pressure drop		Pa	70
Class to ISO 16890		—	ISO ePM10 80%
Particulate matter efficiency			
ISO ePM1		—	43
ISO ePM2,5	%	—	54
ISO ePM10		—	82
Filter class to EN 779:2012		—	M6
Activated carbon weight, approx.	kg	3.28	2.1
Filter capacity Toluene	g	753	551
Filter capacity n-butane	g	48	41
Filter capacity SO ₂	g	118	89

The information or figures given are subject to tolerances due to normal production fluctuations. Our explicit written confirmation is required in each case for the correctness of the information. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.