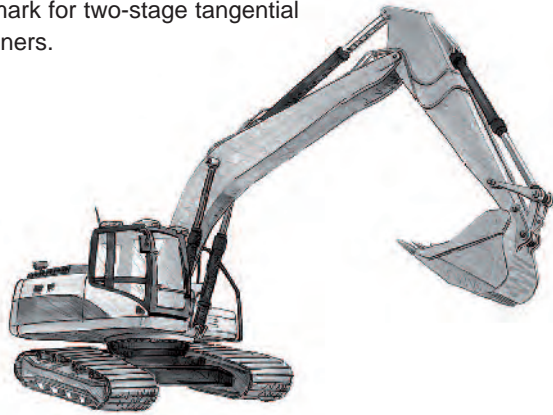




# ENTARON XD: developed for high requirements

The new ENTARON XD series from MANN+HUMMEL sets new standards for two-stage air cleaners. This series combines the best characteristics of the successful and proven EUROPICLON® and NLG air cleaners with a number of innovative new ideas. This makes the ENTARON XD the new benchmark for two-stage tangential air cleaners.



## The advantages at a glance:

- **Excellent flexibility via variable modular design**
- **Economic filter system through combination of standard parts**
- **Corrosion-free and robust housing through use of fibre-glass reinforced plastic**
- **Easy handling with tool-free filter element replacement**
- **Total reliability through robust elements and a new sealing system**
- **Eco-friendly disposal through metal-free filter element (fully incinerable)**
- **Easy adaptation to different machines through different connection positions**
- **Quick first installation on vehicle through screw threads integrated in housing**
- **Suitable for use in extreme conditions due to especially robust construction and materials**

## Robust housing

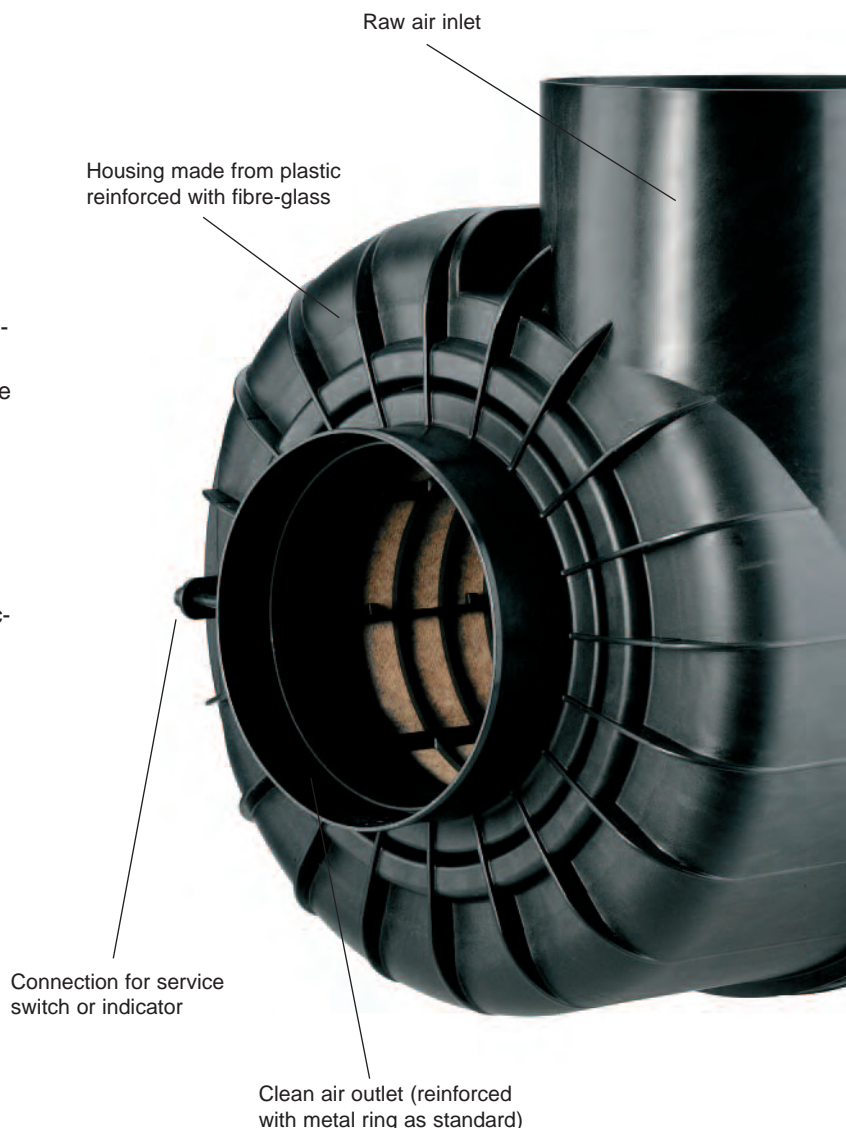
The housing of the new ENTARON XD is reinforced with FEM-designed strengthening ribs and made from plastic reinforced with fibre-glass. This means the filter is able to handle extreme physical conditions and at the same time is resistant to corrosion.

The filter construction consists of three elements with the main housing attached to the connections using a special welding process. This welding ensures a robust and reliable joint and at the same time enables unlimited possible orientations of the connection to the integrated bracket. This achieves an extremely high flexibility and enables adaptation of the filter to almost all installation situations.

The clean air outlet is also reinforced as standard with a metal ring which allows a tightening torque on the hose clamps of up to 15 Nm.

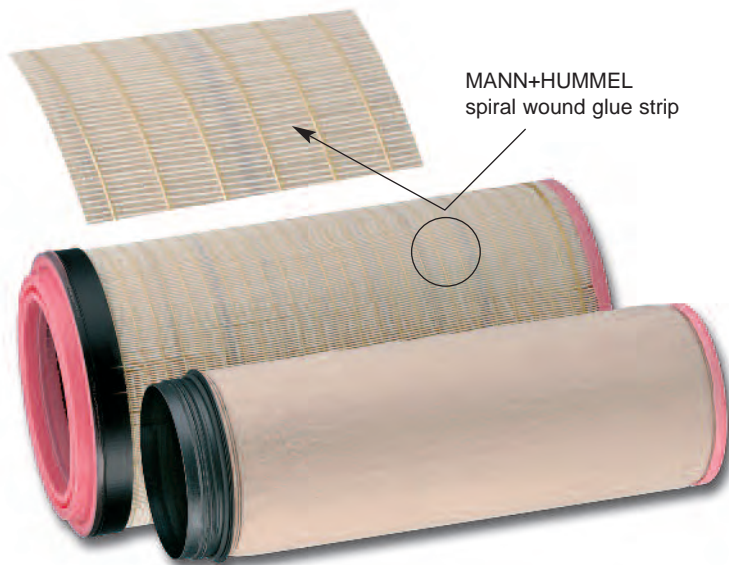
Naturally the standard version also has an integrated connection port for a service switch or indicator.

The high pre-separation efficiency of over 85 % makes the new ENTARON XD ideal for applications with heavy dust loads. This value of 85% sets the standard for its size filter class with comparable competitor products only able to achieve a much lower value. This high pre-separation efficiency also eliminates the need for an additional external pre-separator.





## High performance filter elements



The filter elements of the new ENTARON XD are thoughtfully designed to handle demanding applications:

- A new sealing system ensures reliable sealing between the elements and housing.
- A robust middle tube made from plastic enforces the filter element and therefore protects the machine and the engine.
- The ENTARON XD uses a filter medium which simultaneously offers dramatically improved separation efficiency and a long service life.
- The MANN+HUMMEL spiral wound glue strip stabilizes the pleat ends and thus ensures that the element can achieve its full performance under all operating conditions. An advantage only available as standard from MANN+HUMMEL.
- The safety element in the ENTARON XD is screwed to the housing to prevent the possibility of unintentional removal and to ensure reliable function of the filter.

## Clever details

Color-coded fasteners simplify handling and are easy to understand even when visibility conditions are unfavorable.

The fasteners can also be locked using special snap-in noses so they are no longer in the way when removing or attaching the cover. Another user-friendly and clever detail from MANN+HUMMEL.



Fasteners (positioned according to customer requirements)



Integrated mounting points:  
4 M10 threaded inserts or  
4 through-holes for M10 screw

# ENTARON XD

## Sizes and part numbers

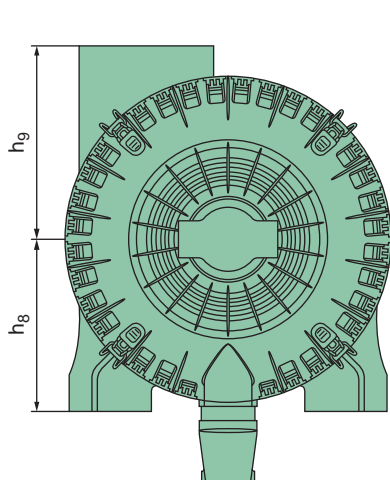


Fig. 1

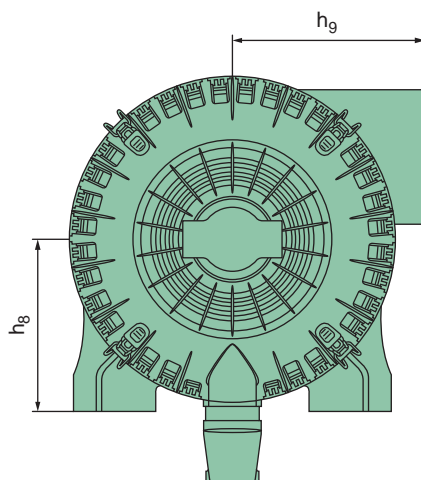


Fig. 2

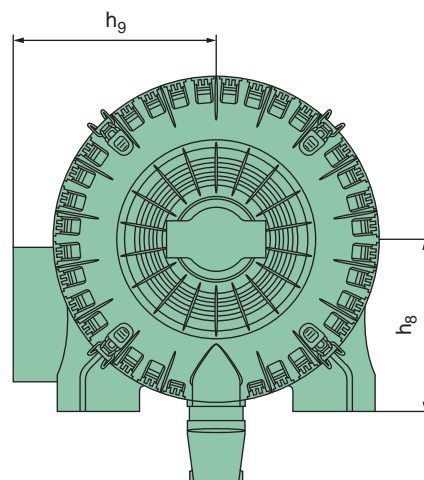
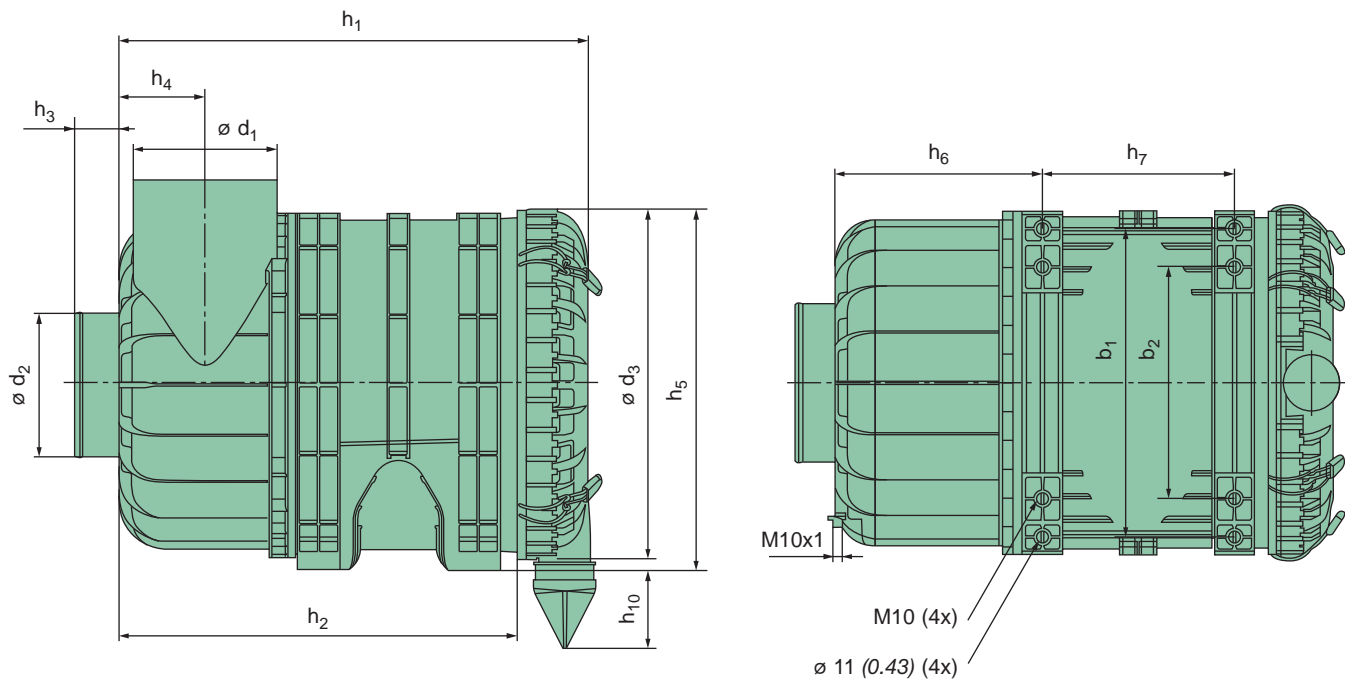


Fig. 3

Size	Flow rate [m³/min]	Fig.	Part number		Replacement filter element	
			without secondary element	with secondary element	MANN-FILTER main element	MANN-FILTER secondary element
ENTARON XD 21	15 - 21	1	45 722 92 950	45 722 92 910	C 25 900	CF 1470
		2	45 722 92 951	45 722 92 911		
		3	45 722 92 952	45 722 92 912		
ENTARON XD 28	20 - 28	1	45 920 92 950	45 920 92 910	C 28 1300	CF 1750
		2	45 920 92 951	45 920 92 911		
		3	45 920 92 952	45 920 92 912		

# ENTARON XD

## Sizes and part numbers

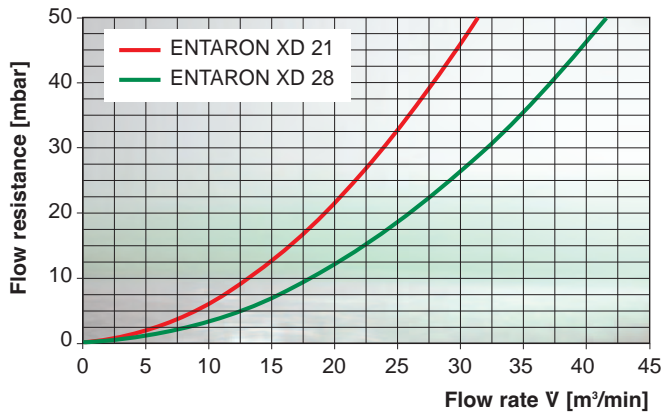


Size	Dimensions in mm [Dimensions in inches]														
	$d_1$	$d_2$	$d_3$	$h_1$	$h_2$	$h_3$	$h_4$	$h_5$	$h_6$	$h_7$	$h_8$	$h_9$	$h_{10}$	$b_1$	$b_2$
ENTARON XD 21	150 (5.91)	150 (5.91)	368 (14.49)	491 (19.33)	426 (16.77)	45 (1.77)	90 (3.54)	375 (14.76)	209 (8.23)	167 (6.57)	193 (7.60)	215 (8.46)	82 (3.23)	320 (12.60)	232 (9.13)
ENTARON XD 28	180 (7.09)	180 (7.09)	397 (15.63)	571 (22.48)	507 (19.96)	45 (1.77)	105 (4.13)	405 (15.94)	238 (9.37)	220 (8.66)	208 (8.19)	245 (9.65)	81 (3.19)	354 (13.94)	266 (10.47)

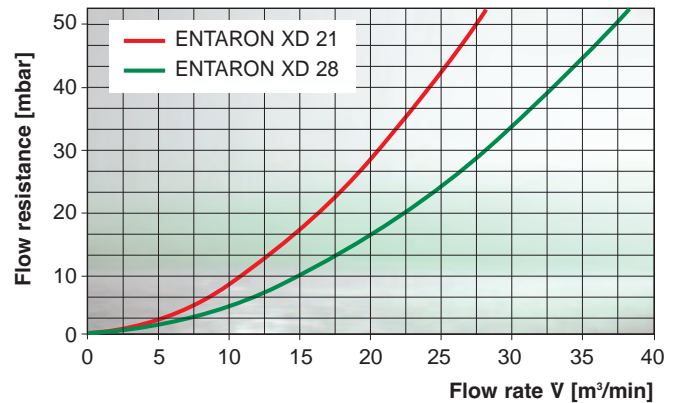
# ENTARON XD

## Characteristics and specifications

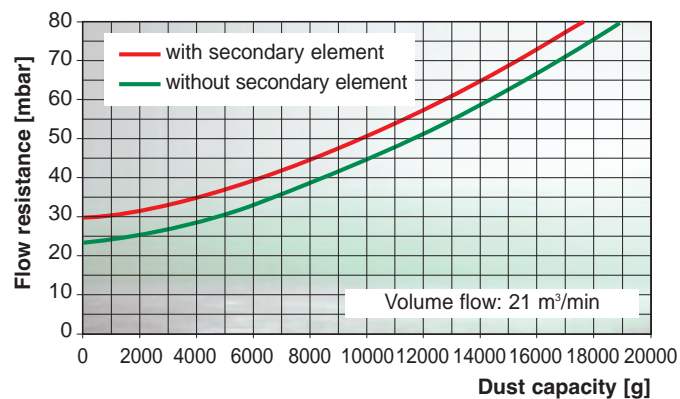
... for flow rates according ISO 5011  
without secondary element



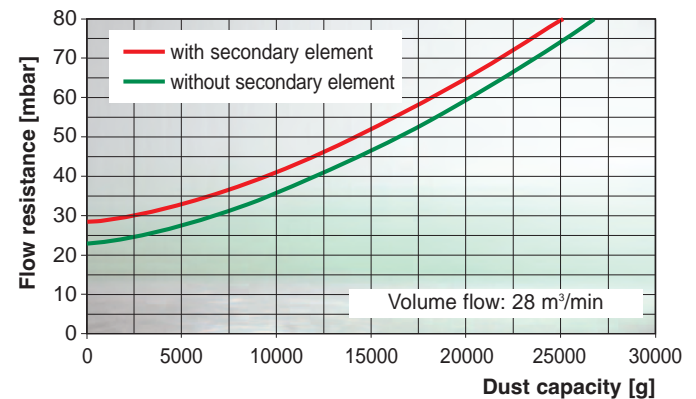
... for flow rates according ISO 5011  
with secondary element



... for dust capacity according ISO 5011  
Dust capacity ENTARON XD 21

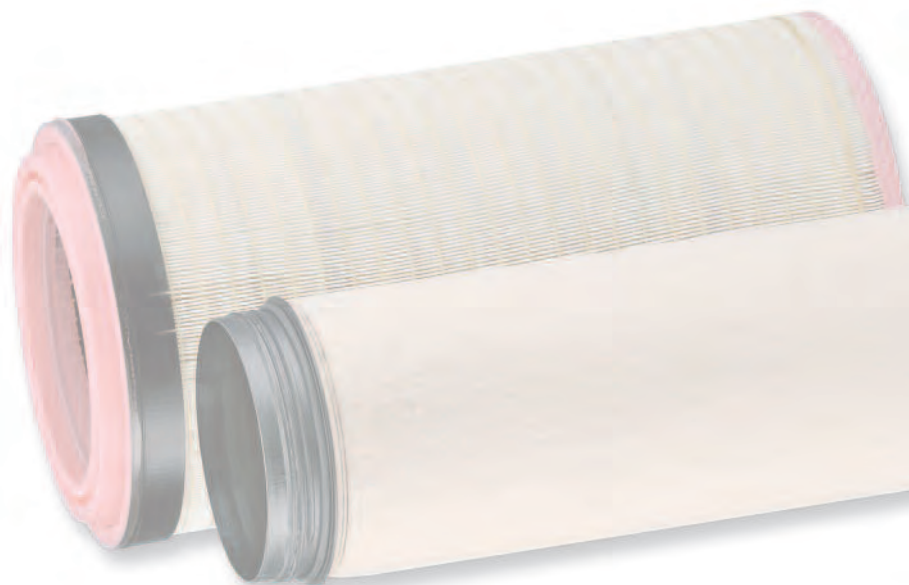


... for dust capacity according ISO 5011  
Dust capacity ENTARON XD 28



### Further specifications:

Operating temperatures	-30 °C to +90 °C
Continuous operation	+110 °C short-term
Tightening torque for mounting screws	10 Nm
Tightening torque for hose clamp (on clean side)	max. 15 Nm
Housing material	PP GF 30





## Accessories

The following accessories are suitable for use with the ENTARON XD.

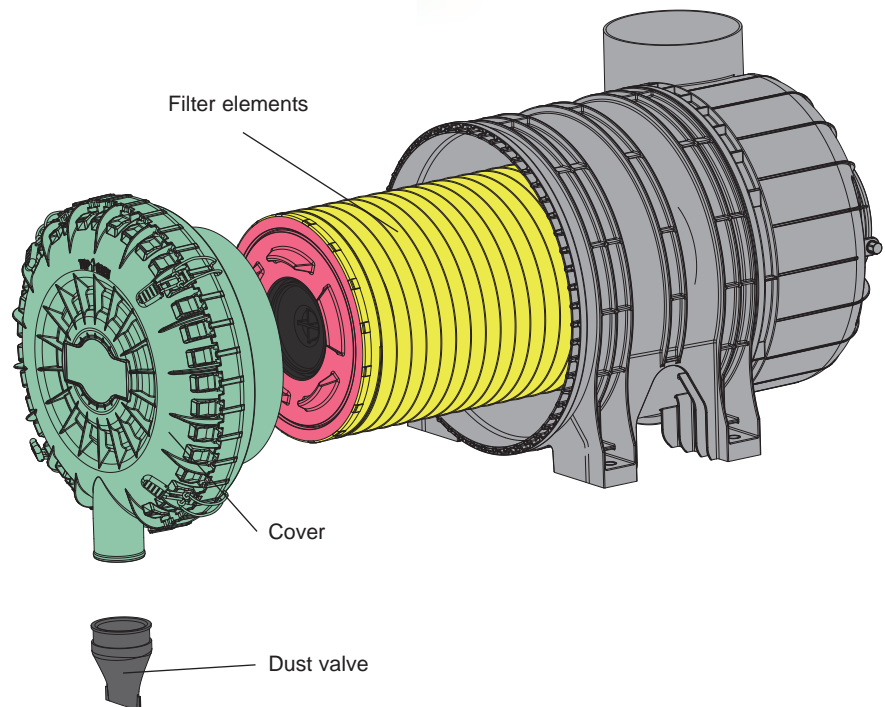
The full range of MANN+HUMMEL accessories is listed in our main catalogue for air cleaners (part no. 19 941 10 101). There you can see our range of service switches and indicators. These indicators inform you of the ideal time to replace the ENTARON XD filter element, therefore saving you money.



Size	Part no.		
	Rain cap	Straight connectors	90° elbow
ENTARON XD 21	39 190 67 910	39 800 27 999	39 800 25 999
ENTARON XD 28	39 220 67 910	39 930 27 999	39 930 25 999

## Spare parts

The following is a list of suitable spare parts for the ENTARON XD.



Size	Part no.		Replacement filter element	
	Cover	Dust valve	MANN-FILTER main element	MANN-FILTER secondary element
ENTARON XD 21	45 722 17 909	39 000 40 731	C 25 900	CF 1470
ENTARON XD 28	45 920 17 909	39 000 40 731	C 28 1300	CF 1750

- 
- MANN+HUMMEL company
  - Joint venture company

## MANN+HUMMEL Group

The MANN+HUMMEL Group is an international company with its headquarters in Ludwigsburg, Germany. The group employs approx. 11,500 people worldwide at more than 41 locations.

The company develops, produces and sells technically complex components for the automotive and other

industries. A key area is high quality filtration products for vehicles, engines and industrial applications. The OEM business with global market leaders and producers of vehicles, machines and installations defines the quality and performance of the group. Filters for the international aftermarket are sold under numerous inter-

national brands as well as under the MANN-FILTER brand.

### MANN+HUMMEL Industrial Filters

The Industrial Filters Business Unit with its headquarters in Speyer, Germany is specialised in meeting the requirements of off-highway

vehicle and engine applications, compressed air and vacuum technology, mechanical engineering and plant construction. For these and other industrial fields MANN+HUMMEL Industrial Filters offers high performance products for the filtration and separation of air, gases and liquids.



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