

Dust separator AS

WER Dok.E.01.920-01.938

1.	Introduction/Safety Instructions
2.	Description
3.	Dimensions
4.	Technical Data
5.	Installation
6.	Maintenance Instructions
7.	Spare Parts
8.	Order numbers



1. Introduction/Safety Instructions

This documentation should be carefully read before installation and operation of this dust separator, in order to avoid harm to personnel or damage to materials.
Please pay attention to all regulations and public rules.

2. Description

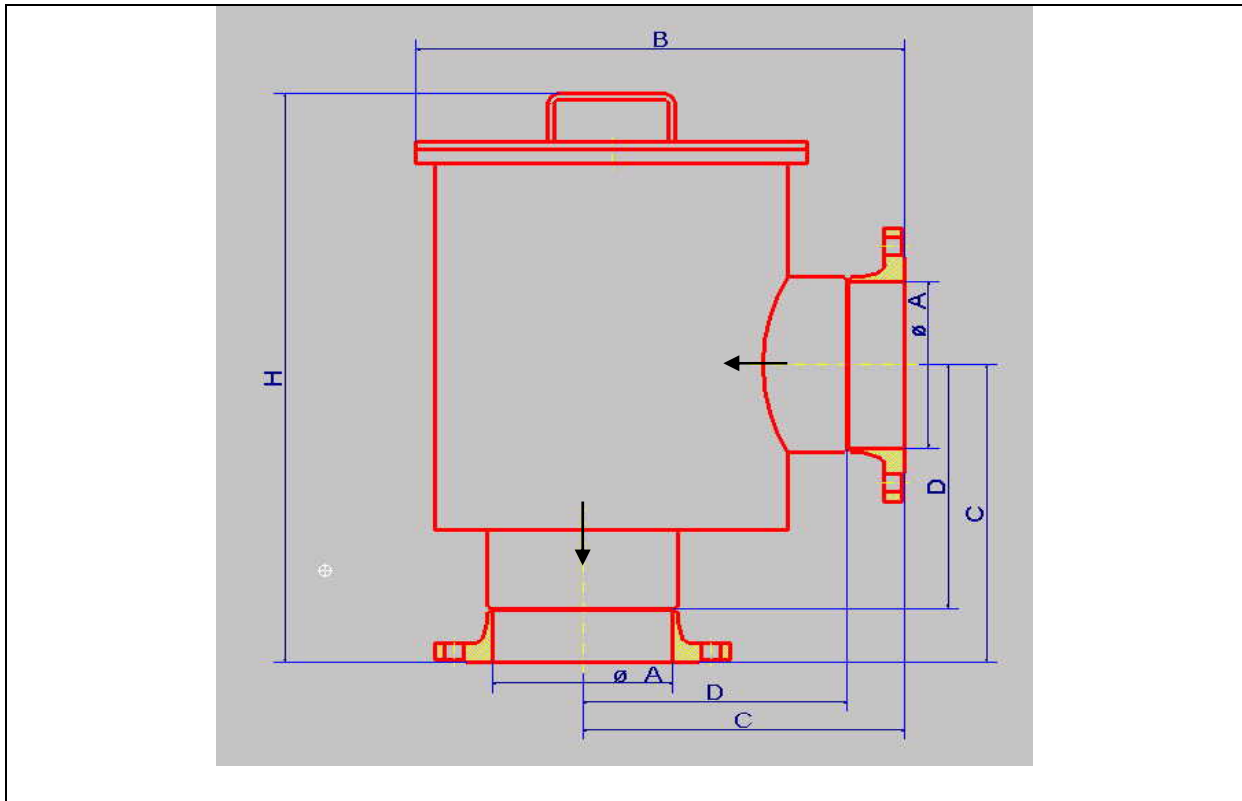
Dust-filters are used to separate dust and dirt in suction ducts of vacuum pumps (prepumps) to avoid contamination of such pumps. The AS can be supplied with different types of cartridges.

WERNIG dust separators will be manufactured tailor made, so different options are possible.

Features

- Low pressure losses
- Fast cartridge change
- Different types of cartridges possible
- Fitting connecting can be conform to customers requirement (option), for example O-ring channel or flanges in ANSI
- Painting as desired

3. Dimensions



Dimensions						
Filter type	Ø A	B	C	D	H	Weight
AS 1	DN 63 ISO-K	280 mm	160 mm	-	370	~ 15 kg
AS 2	DN 100 PN16 / DN 100 ISO-K	413 mm	250 mm	196 mm	450 mm	~ 40 kg
AS 3	DN 125 PN16	410 mm	255 mm	198 mm	516 mm	~ 47 kg
AS 4	DN 150 PN16	514 mm	322 mm	265 mm	570 mm	~ 67 kg
AS 5	DN 200 PN10	564 mm	372 mm	305 mm	710 mm	~ 85 kg

4. Technical Data

Cartridge type	Paper 2,5-3 / 4-5 µ	Paper 5-7 µ	Metal 30 µ	Metal 60 µ	Polyester 8-10 µ	Aktivated carbon
Efficiency	2,5-3 µ > 99 %	5-7 µ > 99 %	30 µ > 99 %	60 µ > 99 %	8-10 µ > 99 %	-
Pressure drop clean	~ 2 %	< 2 %	~ 1 %	< 1 %	~ 2 %	~ 2 %
Max. flow						
Filter type						
AS 1	180 m³/h	2,5 - 3 µ	240 m³/h	240 m³/h	240 m³/h	240 m³/h
AS 2	720 m³/h	4 - 5 µ	526 m³/h	526 m³/h	526 m³/h	526 m³/h
AS 3	1440 m³/h	4 - 5 µ	1052 m³/h	1052 m³/h	1052 m³/h	1052 m³/h
AS 4	750 m³/h	2,5 - 3 µ	1400 m³/h	1400 m³/h	1400 m³/h	1400 m³/h
AS 5	1500 m³/h	2,5 - 3 µ	2800 m³/h	2800 m³/h	2800 m³/h	2800 m³/h

5. Installation

The fitting position of the dust separator can be horizontal or vertical.
The direction of flow is always as shown in the drawing of dimensions (arrows).
The installation should only be carried out under clean conditions of a level that is usual for vacuum technology.

If installation is carried out in an incorrect, dirty way and this causes unsatisfactory operation we will accept no responsibility under guarantee.

Additional forces from other components always must be avoid. Therefore compensators in the ductwork are recommended.

6. Maintenance Instructions

Changing the filter cartridge

- Disassembling of the top cover by unscrew the clamps
- Unsrew of the nut (fixing the cartridge)
- Take out of the cartridge
- Cleaning the separator housing
- Take in a new clean cartridge (draw up the nut moderate)
- Assembling of the top cover

- Possibility of leakage test.

Maintenance can also be carried out by WERNIG Maschinen- und Apparatebau GmbH & Co. KG. Please contact us.

7. Spare Parts

Order details for cartridges

Cartridge type	Paper 2,5–5 μ	Paper 5–7 μ	Metal 30 μ	Metal 60 μ	Polyester 8–10 μ	Aktivated carbon
Order number						
Filter type						
AS 1	WER 01.999.01	WER 01.999.02	WER 01.999.03	WER 01.999.04	WER 01.999.05	WER 01.999.06
AS 2	WER 01.999.11	WER 01.999.12	WER 01.999.13	WER 01.999.14	WER 01.999.15	WER 01.999.16
AS 3 *	WER 01.999.11	WER 01.999.12	WER 01.999.13	WER 01.999.14	WER 01.999.15	WER 01.999.16
AS 4	WER 01.999.21	WER 01.999.22	WER 01.999.23	WER 01.999.24	WER 01.999.25	WER 01.999.26
AS 5 *	WER 01.999.21	WER 01.999.22	WER 01.999.23	WER 01.999.24	WER 01.999.25	WER 01.999.26

* 2 pieces of cartridges required !

Order details for cover gasket

Order number	
Filter type	
AS 1	WER 01.999.47
AS 2	WER 01.999.48
AS 3	WER 01.999.48
AS 4	WER 01.999.49
AS 5	WER 01.999.49

Further spare parts on request

8. Order numbers

Order details for complete filters

Cartridge type	Paper 2,5–5 µ	Paper 5–7 µ	Metal 30 µ	Metal 60 µ	Polyester 8–10 µ	Aktivated carbon
Order number						
Filter type						
AS 1 DN 63 ISO-K	WER 01.920.10	WER 01.920.11	WER 01.920.12	WER 01.920.13	WER 01.920.14	WER 01.920.15
AS 2 DN 100 PN16	WER 01.925.10	WER 01.925.11	WER 01.925.12	WER 01.925.13	WER 01.925.14	WER 01.925.15
AS 2 DN 100 ISO-K	WER 01.926.10	WER 01.926.11	WER 01.926.12	WER 01.926.13	WER 01.926.14	WER 01.926.15
AS 3 DN 125 PN 16	WER 01.930.10	WER 01.930.11	WER 01.930.12	WER 01.930.13	WER 01.930.14	WER 01.930.15
AS 4 DN 150 PN 16	WER 01.934.10	WER 01.934.11	WER 01.934.12	WER 01.934.13	WER 01.934.14	WER 01.934.15
AS 5 DN 200 PN 10	WER 01.938.10	WER 01.938.11	WER 01.938.12	WER 01.938.13	WER 01.938.14	WER 01.938.15

Further options on request