DUST FILTRATION DUST FILT

WAMAIR® Vacuum

FPN / FPNX

Insertable Polygonal Dust Collectors for Negative Pressure Applications







WAMGROUP

WAM® AIR

WAMAIR® Vacuum
FPN / FPNX
Insertable Polygonal Dust Collectors
for Negative Pressure Applications

SAFE AND COMPACT DE-DUSTING IN NEGATIVE PRESSURE CONDITIONS

WAMAIR® Vacuum FPN / FPNX are specially designed for the requirements of applications in negative pressure conditions. They are suitable for virtually all industries. Thanks to their hygienic design and food-grade filter elements, they comply with the EC 1935/2004 directive, making them suitable for a wide range of food processing applications (wheat, beans, sugar, rice, coffee, cocoa, diet foods, chilli peppers, etc.).

WAMAIR® Vacuum uses pocket filter elements to separate dust particles that are held in suspension by an air stream. The dust-laden air flow passes through the filter medium, which retains the dust particles and allows the clean air to penetrate.

WAMAIR® Vacuum is designed for pneumatic conveying systems in a negative pressure range of up to -0.6 bar to protect the vacuum pump. However, it can also be used for silo venting.

Provided with special filter elements and accurate surface finishing (no sharp edges), WAMAIR® Vacuum Dust Collectors ensure comfortable access for maintenance.



Standard Door Gasket



Food-grade Door Gasket

Filter Elements & Filter Media

Pockets

Flat Needle-Felt Elements

HEAT SET



OIL-REPELLENT

ANTISTATIC

MICRO-FIBRE

WATER-REPELLENT

MICROPOROUS ePTFE MEMBRANE

Sizes available:

L = 500 mm
L = 750 mm
L = 1,000 mm
L = 1,250 mm
L = 1,500 mm

Technical Features

DIMENSIONAL

- Air volume: 150 ~ 4,000 Nm^3/h (88 ~ 2,350 cfm)
- Filtering surface: 3 ~ 36 m^2 (32 ~ 387 sq ft)
- Temperature range: -20 ~ 80 °C (-4 ~ 176 °F)
- Optional horizontal or vertical installation
- Mild-steel or stainless-steel casing

APPLICATIONS

- Suitable for both negative pressure down to -6,000 mm H_2O (-0.6 bar) and positive pressure (up to 500 mm H_2O)
- EC 1935/2004 certification available
- ATEX-versions available (Pred = 1 barg)

MAINTENANCE

- Inspection door with captive fastening knobs for easy and safe access for filter element replacement

CLEANING SYSTEM

- High-efficiency programmable compressed air cleaning system
- "Full Immersion" solenoid valves, integrated into air tank to minimise flow resistance

Options and Accessories

ATEX Certification

Available for:
• Zone 22 (Category 3D)
ATEX versions suitable for internal zone 20 application

Food-Grade Certification

EC 1935/2004-certified

(food-grade materials)
• EU 10/2011
(food-grade plastic materials);
• EC 2023/2006
(GMP regulations).

Door Gasket

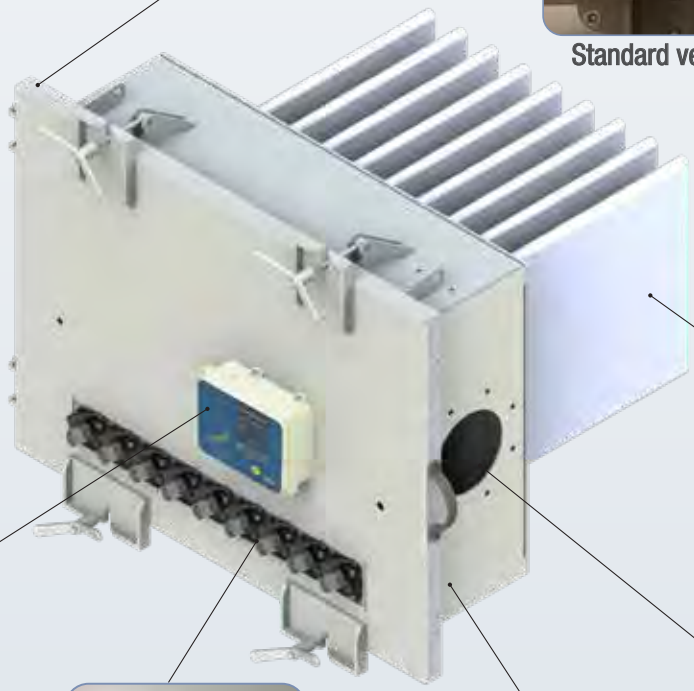
- Easy maintenance
- Completely removable
- Optimised sealing properties



Standard version



Food-grade version





Wide Range of Filter Media



Electronic Control Panel

- Differential pressure meter
- Connectivity with Modbus RS485
- WiFi or GPRS module

Air Exhaust Outlet

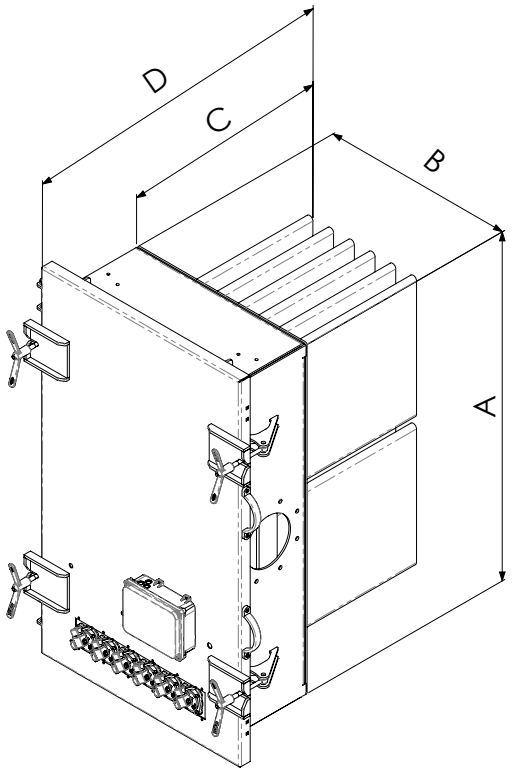
In 12 or 3 o'clock position

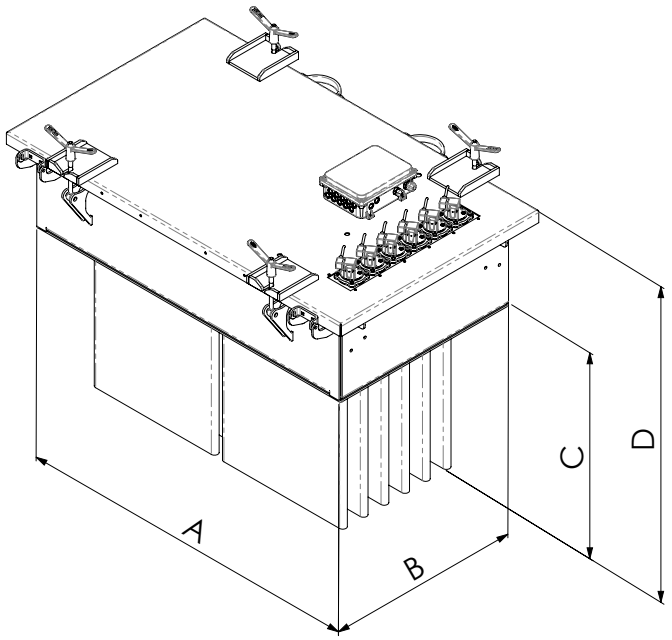


Winter Protection

Mild Steel or Stainless-steel Door and Housing

Overall Dimensions





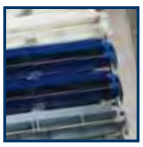
TYPE AND VOLUME INDEX		Surface (m^2)	Filter elements	Number of lines	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
570 x 570	FPN(X)_T1	03	6	1	680	650	500	820	115
	FPN(X)_T2	05	6	1	680	650	750	1,070	120
	FPN(X)_T3	06	6	1	680	650	1,000	1,320	125
	FPN(X)_T4	08	6	1	680	650	1,250	1,570	130
	FPN(X)_T5	09	6	1	680	650	1,500	1,820	135
845 x 570	FPN(X)_T6	05	9	1	680	925	500	820	140
	FPN(X)_T7	07	9	1	680	925	750	1,070	145
	FPN(X)_T8	09	9	1	680	925	1,000	1,320	150
	FPN(X)_T9	12	9	1	680	925	1,250	1,570	160
	FPN(X)_TA	14	9	1	680	925	1,500	1,820	165
570 x 1065	FPN(X)_TB	06	12	2	1,180	655	500	820	185
	FPN(X)_TC	09	12	2	1,180	655	750	1,070	195
	FPN(X)_TD	12	12	2	1,180	655	1,000	1,320	200
	FPN(X)_TE	15	12	2	1,180	655	1,250	1,570	215
	FPN(X)_TF	18	12	2	1,180	655	1,500	1,820	225
1065 x 570	FPN(X)_TV	06	12	1	685	1,150	500	820	185
	FPN(X)_TH	09	12	1	685	1,150	750	1,070	195
	FPN(X)_TW	12	12	1	685	1,150	1,000	1,320	200
	FPN(X)_TJ	15	12	1	685	1,150	1,250	1,570	210
	FPN(X)_TK	18	12	1	685	1,150	1,500	1,820	215
1065 x 1065	FPN(X)_TP	12	24	2	1,180	1,150	500	820	270
	FPN(X)_TQ	18	24	2	1,180	1,150	750	1,070	290
	FPN(X)_TR	24	24	2	1,180	1,150	1,000	1,320	300
	FPN(X)_TS	30	24	2	1,180	1,150	1,250	1,570	330
	FPN(X)_TT	36	24	2	1,180	1,150	1,500	1,820	345

H - Horizontal, **V** - Vertical, **XH** - ATEX Horizontal, **XV** - ATEX Vertical

Benefits



HYGIENIC HOUSING DESIGN
Easy and quick access for cleaning



CAPTIVE LOCKING SYSTEM
Filter element replacement within a few minutes by one person only

STURDY, COMPACT HOUSING
Versatile configurations



EASY MAINTENANCE
Minimised plant downtime thanks to quick and easy maintenance

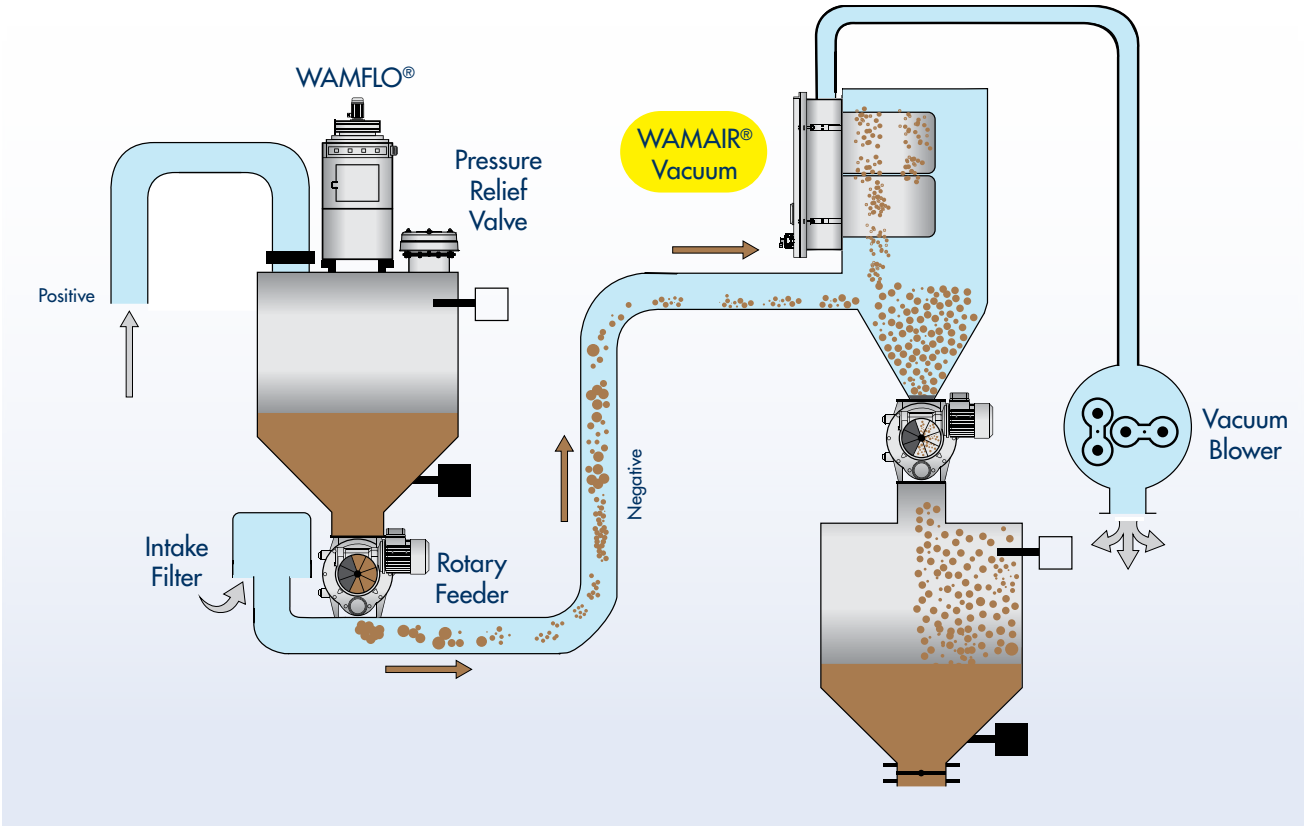


LOW EMISSION LEVEL
WAM® filter elements and media (BIA/IFA-certified)



WORLDWIDE SUPPORT
Technical support and worldwide availability of spare parts thanks to the WAMGROUP® subsidiary network

Dilute Pneumatic Vacuum Conveying System



Selection of Industries


Flour Milling


Canned Food Processing


Sugar Processing


Coffee Processing


Rice Milling


Diet Foods Processing


Cocoa Processing


Chili Pepper Processing

Application







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