# DUST FILTRATION DUST FILT

# **WAMAIR®** FP / FPX Polygonal Dust Collectors













### INTELLIGENT SOLUTIONS TO ALL KINDS OF DUST ISSUES

WAMAIR® is a Polygonal Dust Collector range that comes in a steel housing equipped with high performance POLYPLEAT™ or pocket-type filter elements.

WAMAIR® Dust Collectors are supplied in a stand-alone version with their own hopper range, as bin vents or fully insertable to be easily integrated into several applications such as silo venting, mechanical conveying, mixing and blending, as well as discharging through loading bellows.

The range has been designed in compliance with regulations for the manufacture of equipment for dry powder processing in several industries such as building and construction, glass, chemicals, animal feed and food processing.

WAMAIR® Dust Collectors are provided with **zer**® filter media to achieve optimal performance in all kinds of dedusting applications.

### **Filter Elements and Filter Media**

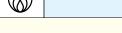




Flat Needle-Felt Elements



HEAT SET



Available dimensions:

L = 500 mm

L = 750 mm

L = 1,000 mm

L = 1,500 mm













### **Features**

### **DIMENSIONAL**

- Air volume:  $250 \sim 9,000 \text{m}^3/\text{h}$  (147 ~ 5,300 cfm)
- Filtering surface: 3 ~ 70m<sup>2</sup> (32 ~ 755 sq ft)
- Temperature range: -20°C ~ 80°C (-4°F ~ 176°F)
- Horizontal or vertical installation
- Stainless steel casing or insertable version

### **APPLICATIONS**

- Suitable for both positive (up to 500mm H<sub>2</sub>0) and negative (up to -350mm H<sub>2</sub>0) pressure applications
- Wide range of filter elements and media, including high efficiency zero technology
- ATEX-versions available

### **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

For cold environments from 0

to -20 °C (not available for

ATEX version)

### **Options and Accessories**

Prearranged for bin, butterfly

valve, rotary valve, various

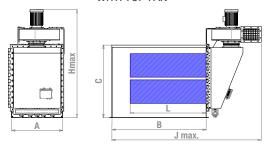
types of flow aids

### **Integrated Suction Fan ATEX Certification** Available for: Available with. Zone 22 (Category 3D) - Choke valve Zone 21 (Category 2D) - Silencer ATEX Versions Suitable for Internal Zone 20 application Filter Media Available with: EC 1935/2004 (food-grade materials) • EU 10/2011 (food-grade plastic materials); • EC 2023/2006 (GMP-regulation). **Electronic Control Panel** Available with: - Differential pressure meter - Connectivity with Modbus RS485 **Presetting** - WiFi or GPRS module for differential pressure gauge **Polygonal Hopper Heating System**

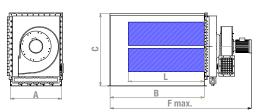
## Overall Dimensions - Horizontal Polygonal Dust Collectors

WITHOUT FAN

### WITH TOP FAN



### WITH SIDE FAN



INDEX	Filter Media Surface			Collector Body Dimensions				With- out fan	With top fan	With side fan	Fan Power
VOLUME INDEX	(m²)	(m²)	L (mm)	A (mm)	B (mm)	C (mm)	H (mm)	F (mm)	J max. (mm)	F max. (mm)	(kW)
1	6 - 10*	3	500		700			1,220	1,590	1,515	
2	14	5	750		950			1,470	1,590	1,765	0.75
3	18	6	1,000	570	1,200	825	1,415	1,720	2,090	2,015	~
4		8	1,250		1,450			1,970	2,340	2,265	3.00
5		9	1,500		1,700			2,220	2,590	2,515	
6		5	500		700			1,220	1,645	1,610	
7		7	750		950			1,470	1,895	1,860	0.75
8	28	9	1,000	845	1,200	825	1,510	1,720	2,145	2,110	~
9		12	1,250		1,450			1,970	2,395	2,360	5.50
Α		14	1,500		1,700			2,220	2,645	2,610	
В		6	500		700			1,220	1,645	1,610	
С		9	750		950			1,470	1,895	1,860	0.75
D	34	12	1,000	570	1,200	1,320	2,005	1,720	2,145	2,110	~
Е		15	1,250		1,450			1,970	2,395	2,360	5.50
F		18	1,500		1,700			2,220	2,645	2,610	
G		9	500		700			1,220	1,815	1,640	
Н		14	750		950			1,470	2,065	1,890	1.10
L	42-56*	18	1,000	845	1,200	1,320	2,030	1,720	2,315	2,140	~
M		22	1,250		1,450			1,970	2,565	2,390	7.50
N		28	1,500		1,700			2,220	2,815	2,640	
Р		12	500		700			1,220	1,815	1,740	
Q		18	750		950			1,470	2,065	1,990	1.10
R	48-70*	24	1,000	1,065	1,200	1,320	2,130	1,720	2,315	2,240	~
S		30	1,250		1,450			1,970	2,565	2,490	11.00
T		36	1,500		1,700			2,220	2,815	2,740	
Υ		45	1,250	1.065	1,450	1.815	2,815	2,000	2,565	2,495	3.00
U		54	1,500	1,000	1,700	1,013	۷,013	2,250	2,815	2,745	11.00

<sup>\*</sup> Filtering surface area varies according to the number of filter elements



TEX version available

ATEX version available

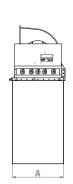
Provided also for POLYPLEAT™ with 42-56 and 48-70 m² but related to M and S volume index

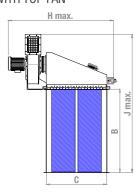
### **Overall Dimensions - Vertical Polygonal Dust Collectors**





### WITH TOP FAN





INDEX	POLYPLEAT™ Elli	Media S ₩	urface	Collector Body Dimensions				Without fan	With top fan	Fan Power
VOLUME INDEX	(m²)	(m²)	L (mm)	A (mm)	B (mm)	C (mm)	H (mm)	F (mm)	J max. (mm)	(kW)
1	6 - 10*	3	500		500			865	1,390	
2	14	5	750		750			1,115	1,640	0.75
3	18	6	1,000	570	1,000	670	1,405	1,365	1,890	~
4		8	1,250		1,250			1,615	2,140	3.00
5		9	1,500		1,500			1,865	2,390	
6		5	500		500			865	1,450	
7		7	750		750			1,115	1,700	0.75
8	28	9	1,000	845	1,000	670	1,500	1,365	1,950	~
9		12	1,250		1,250			1,615	2,200	5.50
Α		14	1,500		1,500			1,865	2,450	
В		6	500		500			865	1,450	
С		9	750		750			1,115	1,700	0.75
D	34	12	1,000	570	1,000	1,170	1,995	1,365	1,950	~
Ε		15	1,250		1,250			1,615	2,200	5.50
F		18	1,500		1,500			1,865	2,450	
G		9	500		500			865	1,615	
Н		14	750		750			1,115	1,865	1.10
L	42-56*	18	1,000	845	1,000	1,170	2,025	1,365	2,115	~
М		22	1,250		1,250			1,615	2,365	7.50
N		28	1,500		1,500			1,865	2,615	
Р		12	500		500			865	1,615	
Q		18	750		750			1,115	1,865	1.10
R	48-70*	24	1,000	1,065	1,000	1,170	2,120	1,365	2,115	~
S		30	1,250		1,250			1,615	2,365	11.00
T		36	1,500		1,500			1,865	2,615	
* Filtering surface area varies according to the number of filter elements										

Filtering surface area varies according to the number of filter elements

### **Benefits**



**EASY MAINTENANCE** 

Minimised plant downtime due to quick and easy maintenance



**LOW EMISSION** 

Due to advanced technology **Zer** filter media



COMPACT & EASY FITTING DESIGN
Different body configurations available
for the same filtering surface area



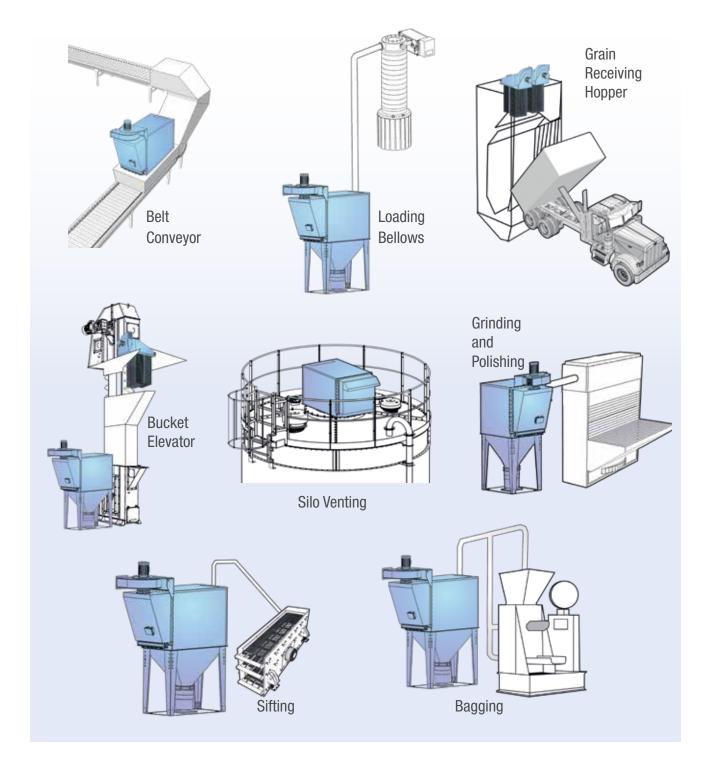
**WORLDWIDE SUPPORT** 

Technical support and spare parts available worldwide thanks to WAMGROUP® subsidiary network



**VERSATILE** 

Perfectly suitable for many different technical applications:



### **Application**



















WAM



TOREX











This brochure has been edited for distribution in European Union countries.

















