

in Flow filter



Iperjet DF MAX  
9-12-18-24



# Iperjet DF MAX 9-12



IPERJET DF MAX 9



IPERJET DF MAX 12

## HORIZONTAL CARTRIDGES

THE NEW **IPERJET DF MAX 9-12** FILTER EQUIPPED WITH HORIZONTAL CARTRIDGES IS SUITABLE FOR SUCTION AND FILTRATION OF WELDING FUMES, FINE AND COARSE DUSTS AS WELL AS OF SMALL QUANTITIES OF CHIPS, DUSTS/FUMES FROM THERMAL CUTTING. IT IS A FILTER UNIT TO BE INSTALLED INSIDE THE WORK PREMISES.

IF ALLOWED BY LOCAL REGULATIONS, THE FILTERED AIR CAN BE RECYCLED INTO THE WORKING AREA GIVING A CONSIDERABLE ENERGY SAVING.

The filter unit consists of one pre-chamber, where the most dusts are sorted out, falling then in the first collecting bin.

The following labyrinth together with the high efficiency filtering cartridges and the second collecting bin complete the filtration of the remaining dusts.

The high performance soundproofed fan, placed just on the top of the unit, assures a high suction capacity and a low noise level.

**\*WE STRONGLY SUGGEST TO INSTALL AN EFFICIENT SPARK ARRESTOR IN THE PIPE SYSTEM CONNECTED TO THE TC MODEL.  
FOR DETAILS PLEASE CONTACT OUR TECHNICAL DEPARTMENT**



**IPERJET DF MAX 12 TC\***



**IPERJET DF MAX 9 TRU**

## HORIZONTAL CARTRIDGES

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**IPERJET DF MAX 12 TC\*TRU**

# Iperjet DF MAX 9-12

## OPERATING PRINCIPLE

1

•POLLUTED AIR INLET

2

•COLLECTION BIN FOR COARSE DUSTS

3

•HOPPER

4

•COLLECTION BIN FOR FINE DUSTS

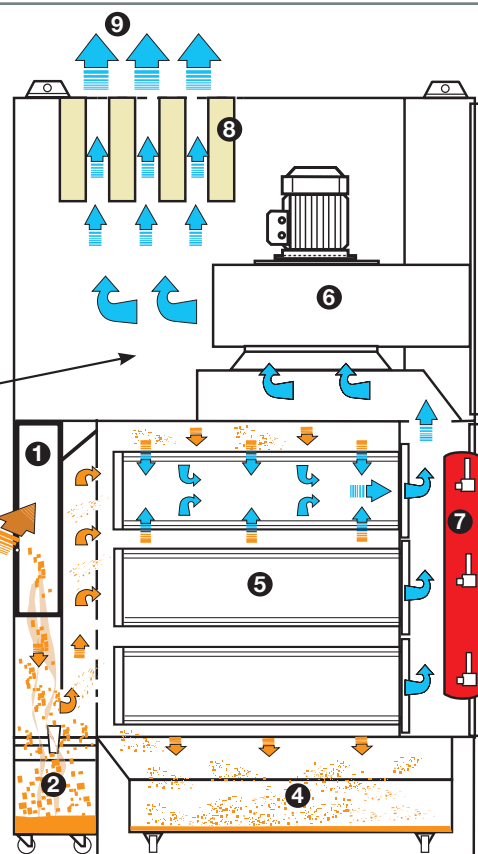
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CLEAN AIR



POLLUTED AIR



IPERJET DF MAX - DFMAX TC 9-12

5

•FILTERING CARTRIDGES

6

•FAN

7

•COMPRESSED AIR TANK

8

•ADDITIONAL VERTICAL SOUNDPROOFING PANELS (OPTIONAL)

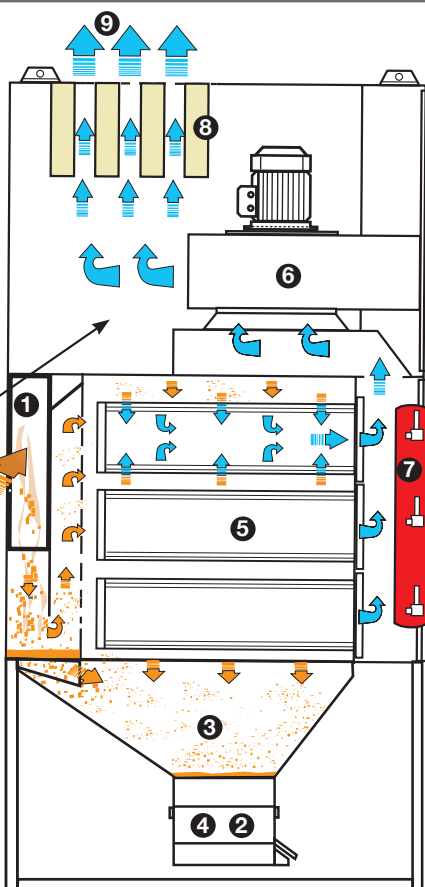
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CLEAN AIR



POLLUTED AIR

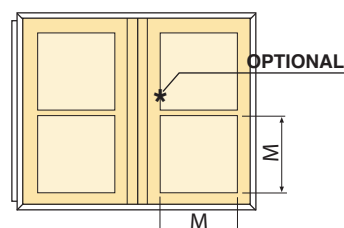
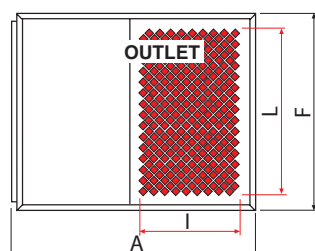
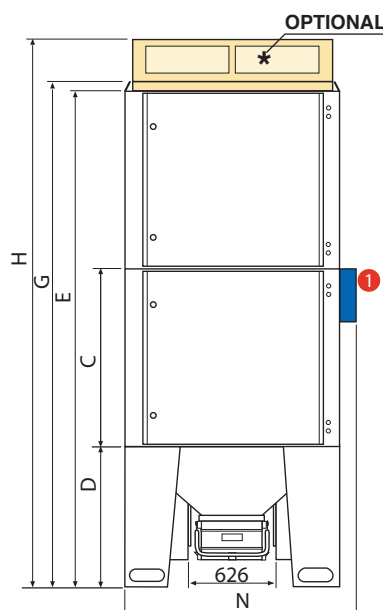
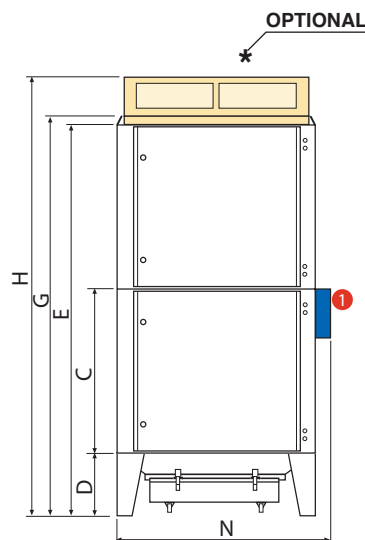
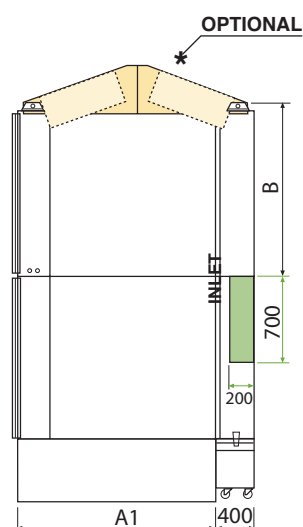


IPERJET DF MAX TRU - DFMAX TC TRU 9-12



## IPERJET DF MAX DFMAX TC 9-12

## IPERJET DF MAX TRU DFMAX TC TRU 9-12



•Air inlet positioned on right and left side.  
For model MAX 12 using 15 and 18.5 kW please  
use both of them.

•HEPA H13 filter or with activated carbons  
**OPTIONAL**

1  
•ELECTRIC CONTROL BOARD

•PRESSURE SWITCH



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DIMENSIONI (mm) DIMENSIONS (mm) DIMENSIONS (mm) MAßSTÄBE (mm)	IPERJET DF MAX		A	A1	B	C	D	E	F	G	H	I	L	M	N
	DF MAX - DF MAX TC 9		1920	1453	1346	1273	483	3023	1510	3100	3360	825	1245	610	1710 mm
			75	57	53	50	19	119	59	122	132	32	49	24	67 inches
	DF MAX TRU - DF MAX TC TRU 9		1920	-	1346	1273	1000	3540	1510	3617	3877	825	1245	610	1710 mm
			75	-	53	50	39	139	59	142	152	32	49	24	67 inches
	DF MAX - DF MAX TC 12		2074	1677	1346	1400	483	3161	1510	3236	3500	825	1245	610	1765 mm
			82	66	53	55	19	124	59	127	138	32	49	24	69 inches
	DF MAX TRU - DF MAX TC TRU 12		2074	-	1346	1405	1000	3677	1510	3752	4090	825	1245	610	1765 mm
			82	-	53	55	39	144	59	147	161	32	49	24	69 inches

# Iperjet DF MAX 9-12

Down Flow filter

IPERJET DF MAX	DF MAX9 - DF MAX9 TRU			DF MAX9 TC - DF MAX9 TC TRU	
AIR FLOW	8000 m³/h 4708 cfm	9500 m³/h 5591 cfm	11000 m³/h 6474 cfm	5000 m³/h 2943 cfm	6000 m³/h 3531 cfm
	7000 m³/h 4120 cfm	8500 m³/h 5002 cfm	10000 m³/h 5886 cfm		
FAN	PRH450/R	PRH450	PR500/R	PRA280	PRA320
POWER / NUMBER OF POLES	7,5kw / 2	11kw / 2	15kw / 2	5,5kw / 2	7,5kw / 2
PLATE ABSORPTION	13,8 A	20 A	26,5 A	10,4 A	13,8 A
	13,8 A	20 A	26,5 A		
R.P.M	2950	2950	2960	2950	2950
VOLTAGE	400 V 50 Hz	400 V 50 Hz	400 V 50 Hz	400 V 50 Hz	400 V 50 Hz
	60 hz on request			60 hz on request	
AVAILABLE STATIC PRESSURE AT UNIT INLET	131 MM H <sub>2</sub> O	129 MM H <sub>2</sub> O	165 MM H <sub>2</sub> O	105 MM H <sub>2</sub> O	147 H <sub>2</sub> O
	161 MM H <sub>2</sub> O	160 MM H <sub>2</sub> O	190 MM H <sub>2</sub> O		
AVERAGE SOUND LEVEL	80 dB	82 dB	83 dB	73 dB	76 dB
	78 dB	79 dB	80 dB	71 dB	74 dB
BIN DUST HOLDING CAPACITY	140+230 lt 36+60 gal	140+230 lt 36+60 gal	140+230 lt 36+60 gal	140+230 lt 36+60 gal	140+230 lt 36+60 gal
BIN DUST HOLDING CAPACITY <b>TRU</b>	50 lt 13 gal	50 lt 13 gal	50 lt 13 gal	50 lt 13 gal	50 lt 13 gal
WEIGHT	1430 kg 3152 lb	1450 kg 3196 lb	1500 kg 3306 lb	1430 kg 3152 lb	1450 kg 3196 lb
WORKING TANK HEADER PRESSURE	MAX 7 BAR				
ELECTRICAL FEEDING OF VALVE	24 VAc				

•VERTICAL SOUNDPROOFING (OPTIONAL)

# TECHNICAL FEATURES



IPERJET DF MAX	DF MAX12 - DF MAX12 TRU			DF MAX12 TC - DF MAX12 TC TRU
AIR FLOW	9000 m³/h 5297 cfm	12500 m³/h 7357 cfm	14000 m³/h 8240 cfm	9000 m³/h 5297 cfm
	8000 m³/h 4708 cfm	11000 m³/h 6474 cfm	12500 m³/h 7357 cfm	
FAN	PRH450/R	PR500/R	PR500/R	PRA360
POWER / NUMBER OF POLES	11kw / 2	15kw / 2	18,5kw / 2	15kw / 2
PLATE ABSORPTION	20 A	26,5 A	32 A	26,5 A
	20 A	26,5 A	32 A	
R.P.M	2950	2950	2960	2950
VOLTAGE	400 V 50 Hz	400 V 50 Hz	400 V 50 Hz	400 V 50 HZ
	60 Hz ON REQUEST			60 Hz on request
AVAILABLE STATIC PRESSURE AT UNIT INLET	160 MM H <sub>2</sub> O	148 MM H <sub>2</sub> O	152 MM H <sub>2</sub> O	243 MM H <sub>2</sub> O
	188 MM H <sub>2</sub> O	186 MM H <sub>2</sub> O	198 MM H <sub>2</sub> O	
AVERAGE SOUND LEVEL	80 dB	82 dB	83 dB	80 dB
	78 dB	79 dB	80 dB	
BIN DUST HOLDING CAPACITY	193+300 lt 50+79 gal	193+300 lt 50+79 gal	193+300 lt 50+79 gal	50 lt 13 gal
BIN DUST HOLDING CAPACITY <b>TRU</b>	50 lt 13 gal	50 lt 13 gal	50 lt 13 gal	50 lt 13 gal
WEIGHT	1550 kg 3417 lb	1580 kg 3483 lb	1600 kg 3527 lb	1550 kg 3417 lb
WORKING TANK HEADER PRESSURE	MAX 7 BAR			
ELECTRICAL FEEDING OF VALVE	24 VAc			

	WELDING FUMES
	METAL DUSTS AND FUMES
	THERMAL CUT

# Iperjet DF MAX 9-12

## CARTRIDGES FILTERS

IPERJET	DF MAX - DF MAX TRU		DF MAX TC - DF MAX TC TRU	
	DF MAX 9	DF MAX 12	DF MAX 9	DF MAX 12
NUMBER OF CARTRIDGES	9	12	6	9
IFA/BGIA RATING	<b>M PES (STANDARD)</b> POLYESTER		<b>M-NANOTECH</b> CELLULOSE WITH NANOFIBERS	
CARTRIDGE DIMENSIONS	Ø325 - H 1200 mm Ø13 - H 47 INCHES		Ø325 - H 1000 mm Ø13 - H 39 INCHES	Ø325 - H 1200 mm Ø13 - H 47 INCHES

### FILTERING SURFACE

#### IPERJET DF MAX - DF MAX TRU M-PES

**DF9**  
7,5 kW 11 kW 15 kW  
189m² / 2034 sq.ft

**DF12**  
11 kW 15 kW 18,5 kW  
252m² / 2712 sq.ft

#### IPERJET DF MAX TC - DF MAX TC TRU M-NANOTECH

**DF9**  
5,5 kW 7,5 kW  
198 m² / 2131 sq.ft 240 m² / 2583 sq.ft

**DF12**  
15kW  
360 m² / 3875 sq.ft

## OPTIONAL

### •INLET CONNECTION



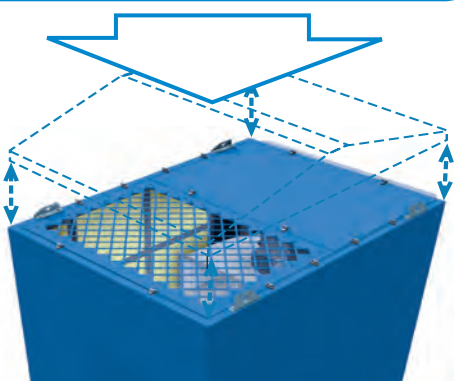
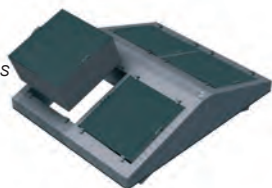
### •PLENUM

WITH HEPA FILTER



OR

WITH ACTIVATED CARBONS



## OPTIONALS MEDIA IPERJET DF MAX - DF MAX TRU

### M PES/TF

POLYESTER/PTFE COATING

### M/CEL

CELLULOSE

### M-PES/AX/EXAM ACCREDITED

POLYESTER/ALUMINUM COATED/ANTISTATIC

### M PES+ PTFE/MEMBRANE

POLYESTER/TEFLON MEMBRANE

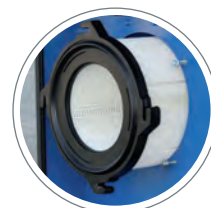
### M PES/OWR

POLYESTER/OLEO-HYDROPHOBIC

Ø 325 H 1200

**M-NANOTECH Ø 325 H 1200 - Ø 325 H 1000**  
CELLULOSE WITH NANOFIBERS

### FIBER FILTERING CARTRIDGES



The horizontal position of the cartridges allows an easy access and a quick maintenance of the filtering area.





IPERJET DF MAX	DF MAX - DF MAX TRU 9			DF MAX - DF MAX TRU 12			DF MAX TC- DF MAX TC TRU		
	7,5 kW	11 kW	15 kW	11 kW	15 kW	18,5 kW	5,5 kW	7,5 kW	15 kW
No. of EVOLUTION ARMS SUGGESTED WITH THE FLOW RATE OF 1300 m³/h EACH ARM Ø 150 MM	6	7	8	7	9	10			
	5	6	7	6	8	10			
SUGGESTED AIR INLET CONNECTION 200x700 MM TO DIA	Ø 400 MM	Ø 420 MM	Ø 480 MM	Ø 420 MM	Ø 480 MM	Ø 520 MM	Ø 280 MM	Ø 300 MM	Ø 380 MM
	Ø 315 MM	Ø 350 MM	Ø 380 MM	Ø 350 MM	Ø 400 MM	Ø 420 MM			
AIR TRANSPORT SPEED INSIDE THE PIPE	18 m/s	19 m/s	17 m/s	18 m/s	19 m/s	18 m/s	22,6 m/s	23,8 m/s	22,7 m/s
	25 m/s	25 m/s	25 m/s	23 m/s	25 m/s	25 m/s			

	WELDING FUMES
	METAL DUSTS AND FUMES
	THERMAL BREAK

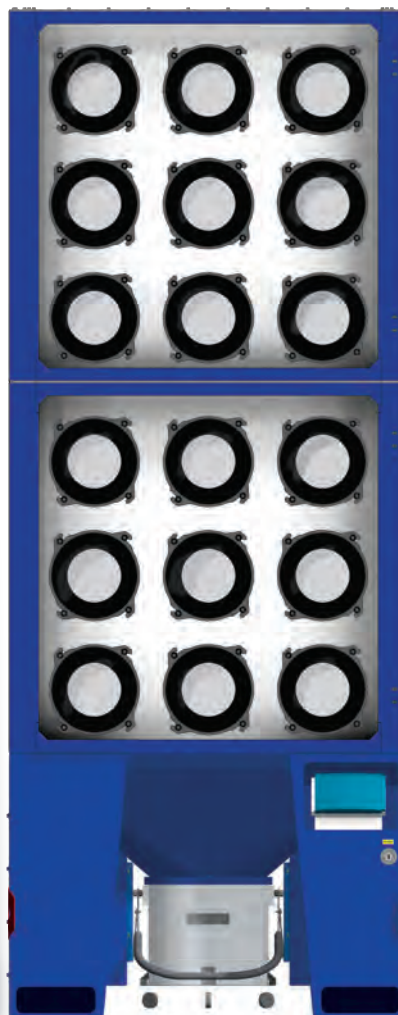


PLS ASK FOR THE APPLICATION CHART

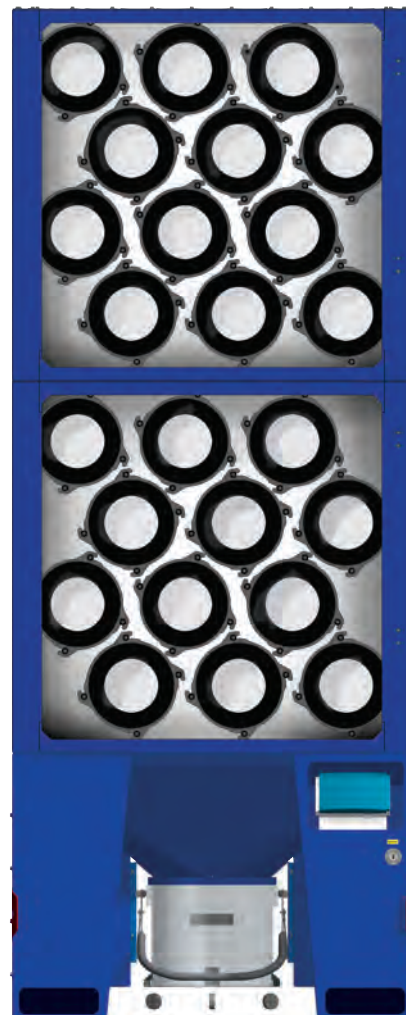


# Iperjet DF MAX 18-24

Down Flow filter



IPERJET DF MAX 18  
IPERJET DF MAX 18 TC



IPERJET DF MAX 24  
IPERJET DF MAX 24 TC

## HORIZONTAL CARTRIDGES

The Coral IPERJET DF MAX has been studied and designed for various applications in workshops :

For suction and filtration of welding fumes, fine and coarse dusts as well as of small quantities of chips. it is a filter unit to be installed inside the work premises, dust / laser cutting fumes in thermalcut version.

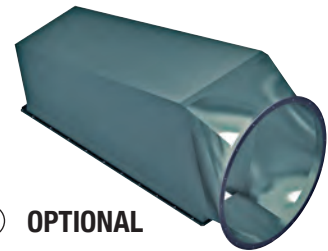




① PRESSURE SWITCH    ECONOMIZER    ②



③  
WHEELED DUST COLLECTION BIN



④ **OPTIONAL**

INLET CONNECTION & CLEAN AIR OUTLET

## BENEFITS OF THE CORAL IPERJET DF MAX

- Easy maintenance
- Friendly transportation and installation  
by the crane eyelets and forklift lifting points
- Quick maintenance of the horizontal cartridges
- Easy dust disposal thanks to the whe-eled container



# Iperjet DF MAX 18-24

## OPERATING PRINCIPLE

The CORAL mod. IPERJET DF MAX horizontal cartridge filter with reverse pulse compressed air washing is composed of cartridge filtering elements enclosed in a central hermetic sealed unit, and is designed for use in depressure systems. The dusty air enters from the top and due to the sharp decrease in speed, the larger particles decant into the hopper and fall in to the collection bin.

The polluted air passes through the cartridge filters, from the outside towards the inside, so that the dust deposits externally and the air will be purified.

This progressive depositing of dust means that the cartridge filters must be cleaned periodically: a jet of compressed air allows reverse pulse washing and subjects the cartridge filters to a high frequency oscillating motion.

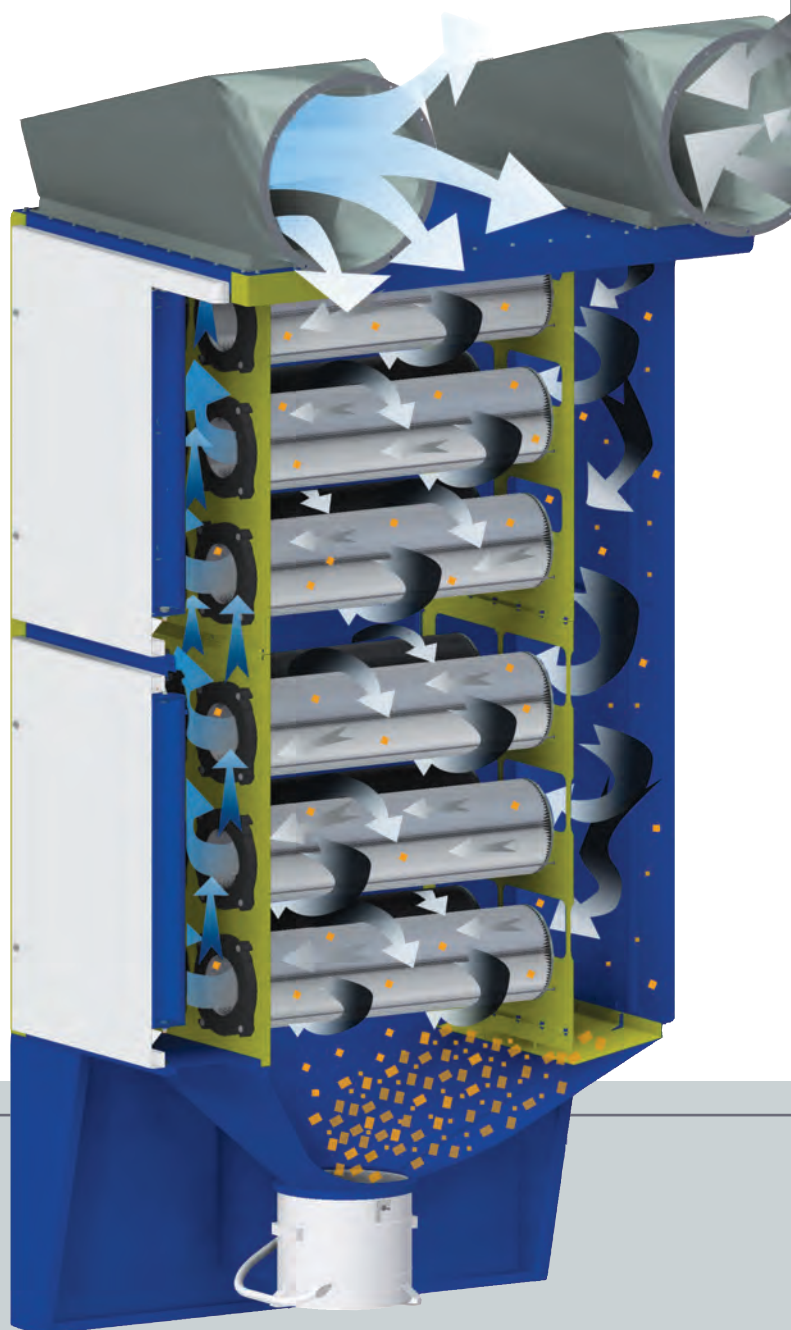
This jet referred to as "shock wave", obviously favours the blowback washing process.

The filters are cleaned by sector, through membrane solenoid valves, controlled by a cycle timer (ECONOMIZER) that sets the pauses or running times with a PLC.

This permanently maintains the filter efficiency status at maximum levels.

This type of cleaning, extremely reliable, after an initial running period, means that the filter reaches a stable pressure loss value that remains practically constant throughout its working life cycle.

Standard filter cartridges are made of Polyester 270 gr/m<sup>2</sup> IFA/BGIA tested M PES or made of cellulose with nanofibers IFA/BGIA tested M-NANOTECH as optional. On request are available various types of filtering media depending on applications. Pls. contact our Technical department to select the filtering media suitable for your needs.

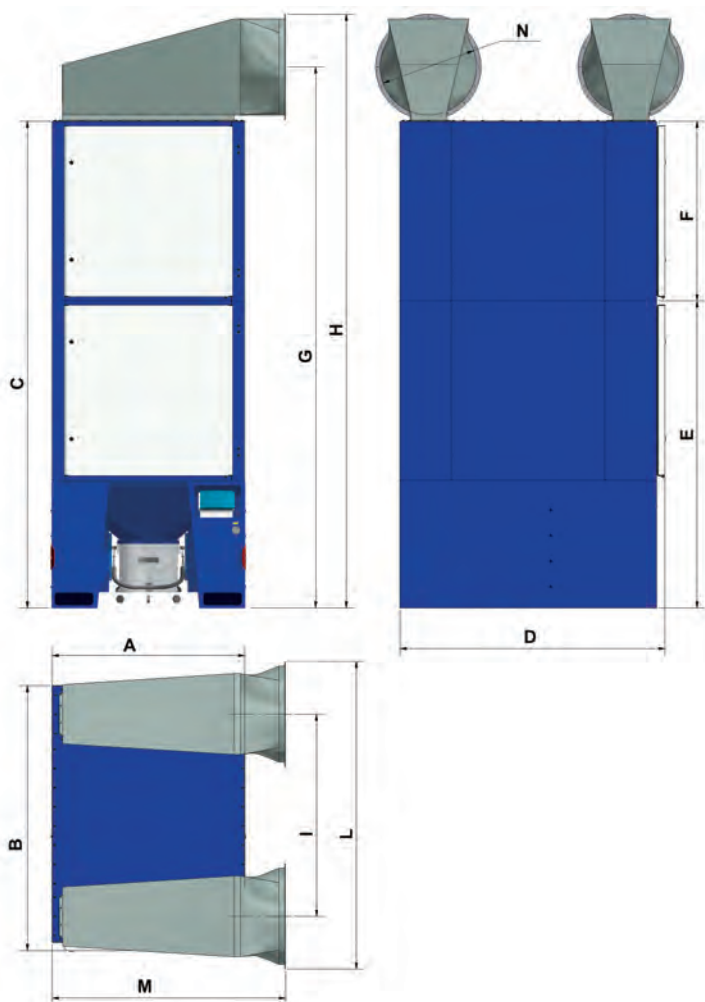
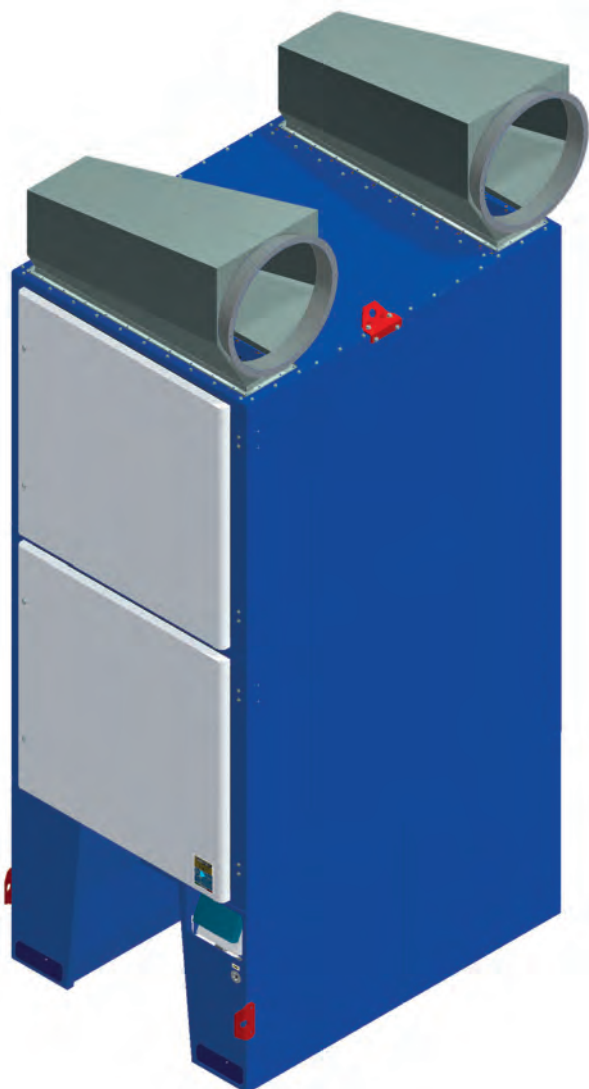


Polluted air inlet

Clean air outlet

Dusts

# Iperjet DF MAX 18-24



## DIMENSIONS

	A	B	C	D	E	F	G	H	I	L	M	N Ø	
DF MAX 18	1506	2074	3809	2074	2404	1405	4174	4526	1582	2286	1823	630	mm
	59	81	150	81	94	55	164	178	62	90	71	24	inches
DF MAX 24	1506	2074	3809	2074	2404	1405	4234	4646	1582	2406	1823	750	mm
	59	81	150	81	94	55	166	183	62	95	71	29	inches





# TECHNICAL FEATURES



MODEL	DF MAX 18		DF MAX 24	
			DF MAX 18 M-NANOTECH	
			DF MAX 24 M-NANOTECH	
AIR FLOW	20000 m³/h 11771 cfm	30000 m³/h 17657 cfm	20000 m³/h 11771 cfm	30000 m³/h 17657 cfm
BIN DUST HOLDING CAPACITY	1 x 50 lt 1 x 13 gal.us	1 x 50 lt 1 x 13 gal.us	1 x 50 lt 1 x 13 gal.us	1 x 50 lt 1 x 13 gal.us
WEIGHT	1424 Kg 3139 lbs	1485 Kg 3274 lbs	1460 Kg 3218 lbs	1500 Kg 3307 lbs

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## CARTRIDGES FILTERS

CARTRIDGE FILTERS	IPERJET DF MAX	DF MAX		DF MAX	
		18	24	18	24
	NUMBER OF CARTRIDGES	18	24	18	24
	IFA/BGIA RATING	M PES (STANDARD) POLYESTER		M-NANOTECH (OPTIONAL) CELLULOSE WITH NANOFIBERS	
	FILTERING SURFACE	378 m² 4069 sq.ft	504 m² 5425 sq.ft	720 m² 7750 sq.ft	960 m² 10333 sq.ft
	CARTRIDGES DIMENSIONS	Ø325 - H 1200 mm Ø13 - H 47 inches		Ø325 - H 1200 mm Ø13 - H 47 inches	





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