

Jetclean DF

Range of high-efficiency
filter units



Jetclean DF

Jetclean DF 1
Jetclean DF 2
Jetclean DF 2 W3



Innovative Air Solutions
For a cleaner future.

Design

Horizontal cartridge filter unit, manually cleanable, with integrated centrifugal fan suitable for extraction and filtration of welding fumes.

Jetclean DF

5 Models

soundproofing plenum

Cartridge filter
Ø325/4PS1-H400-M PES-270 g/m²

High-efficiency cartridges provide dust filtration

1° Rear bin

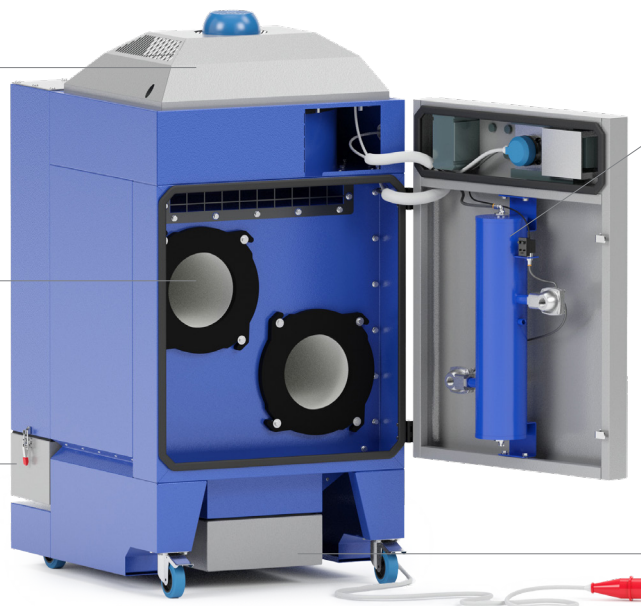
Heavy dust collection bin

Pneumatic cleaning system

With compressed air

2° Front Bin

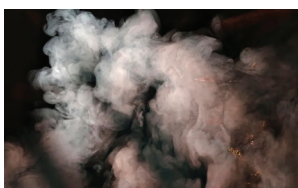
Fine dust collection bin



Highlights

- Equipped with Dynaflex or Evolution No Smoke **self-supporting** arm as standard.
- High-efficiency** cartridges.
- Automatic **compressed air** cleaning system.
- High** extraction **capacity**.
- Low** noise level.
- Easy maintenance** due to horizontal cartridges.
- Plug & Play solution**, no installation required.
- "Down Flow Concept"**.
- Also available in **W3 certified** version.

Applications



Welding fumes



Powders

Filtration technology



IFA-BGIA: Institute for Working Safety and Health (Bonn - Germany)
AGW: Working Exposure Limit Value (Arbeitsplatzgrenzwerte)

DESCRIPTION AND PURPOSE

The purpose of the IFA-BGIA institute is to ensure the safety of workers in the workplace. Filter materials are analysed by establishing the use of classes L, M, H. BIA has also established an exposure limit value (AGW) above which worker safety is no longer guaranteed. The exposure limit value to a pollutant is the concentration in the air that a person can breathe during a limited period of 15 minutes, without immediate toxic effects. The IFA-BGIA test is carried out using the following parameters:

- Passage velocity of 0.056 m/s
- Quartz dust concentration $200 \pm 20 \text{ mg/m}^3$
- Variable particle size between 0.2 and 2 microns

CLASS OF USE	CONCENTRATION	MAXIMUM AUTHORISED RELEASE
M	Filtering out dust with AGW values $\geq 0,1 \text{ mg/m}^3$	>99,9%

Easy access, quick and simple maintenance



The horizontal arrangement of the cartridges allows easy access and quick maintenance of the filter section.

Filter Media

MEDIA	MATERIALS	m ²	g/m ²	STANDARD	OPTIONAL
M PES	POLYESTER	7	270	■	
M-PES+PTFE/Membrane	POLYESTER -TEFLON MEMBRANE	7	290		■
M-PES+PTFE/Membrane-H	POLYESTER/TEFLON MEMBRANE/ FABRIC WITH H13 FILTRATION EFFICIENCY	7	280		■



M PES

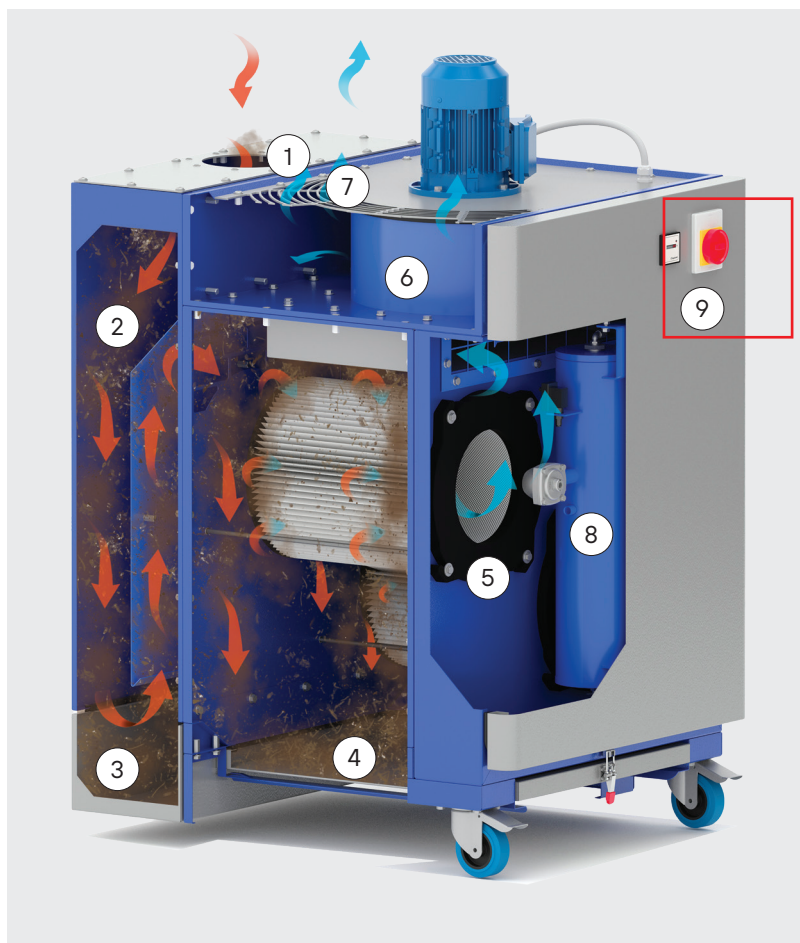


M-PES+PTFE/Membrane
M-PES+PTFE/Membrane-H

Principle of operation

The Jetclean DF filter unit consists of a pre-chamber, where most of the fumes are separated and deposited in the first collection bin; the remaining particles are filtered by high-efficiency M-class cartridge filters before being returned to the environment. The finest filtered dust is deposited in the second collection bin. The air thus filtered passes through the high-efficiency fan, located on top of the unit, and is expelled through a grille, located on the upper wall of the plenum, guaranteeing a high extraction capacity and low noise level. Cartridges are cleaned by an automatic compressed air cleaning system.

Jetclean DF



POLLUTED AIR



FILTERED AIR

- ① Dusty air inlet
- ② Pre-chamber
- ③ 1st Collection bin
- ④ 2nd collecting bin
- ⑤ Filter cartridges
- ⑥ Fan
- ⑦ Filtered air outlet
- ⑧ Compressed air tank
- ⑨ Hour counter
Run/stop switch
Pentapolar socket



Production range

Jetclean DF 1



The carted filter is equipped with 1 horizontal cartridge filter for extraction and filtration of welding fumes, gases, vapours, aerosols, light and heavy dust and chips. Automatic cartridge cleaning by compressed air system.

Cartridges (nr)	Power (kW)
1	0,55
1	0,75

Jetclean DF 2



The carted filter is equipped with 2 horizontal cartridge filters for extraction and filtration of welding fumes, gases, vapours, aerosols, light and heavy dust and chips. Automatic cartridge cleaning by compressed air system.

Cartridges (nr)	Power (kW)
2	1,1
2	2,2

Jetclean DF 2 W3



The IFA W3 certified cartridge filter is equipped with 2 horizontal cartridge filters for extraction and filtration of fumes generated by the welding of high alloy steels, giving a maximum filtration efficiency of over 99%. Automatic cartridge cleaning by compressed air system.

Cartridges (nr)	Power (kW)
2	1,1

Technical features

Technical features		Model Jetclean DF				
		DF 1 0,55	DF 1 0,75	DF 2 1,1	DF 2 2,2	DF 2 1,1 W3
Power	kW	0,55	0,75	1,1	2,2	1,1
Nominal Air Flow	m³/h	1400	1450	1880	2280	1400
Air flow rate at arm Ø160	m³/h	1000	1100	1550	2x 1100	1200
Number of Arms	mm 3 mt	1 x Ø160	1 x Ø160	1 x Ø160	2x Ø160	1 x Ø160
Number of cartridges	Ø325mm H 400mm	1	1	2	2	2
Filtering Surface	m²	8	8	16	16	12
Cartridge classification		POLYESTER				
Pneumatic cleaning		YES	YES	YES	YES	YES
Bin storage capacity(A+B)	lt	9+15	9+15	12+28	12+28	9,5+16
R.P.M.		2845	2845	2845	2845	2920
STD power supply	V Hz	230/400 50	230/400 50	230/400 50	230/400 50	230/400 50
Noise level	dB	74	75	74	74,5	
Noise level with soundproofing plenum	dB	70	70,5	69	70	70
Total weight	kg	105	110	145	160	185

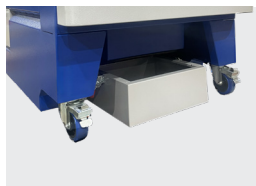
Standard Components

DF1 | DF2



Front collection bin

DF2 W3



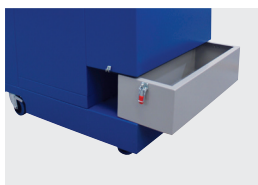
Front collection bin

DF2



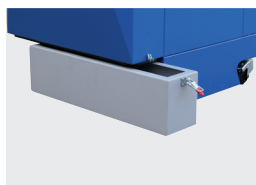
Mod. DF2 2.2 with 2 Evolution No Smoke ø160 3-metre suction arms

DF1 | DF2 W3



Rear collection bin

DF2



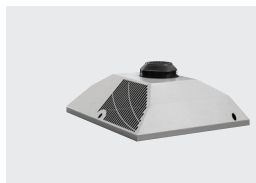
Rear collection bin

DF1 | DF2 | DF2 W3



Automatic compressed air cleaning tank

DF2 W3



Painted soundproofing plenum

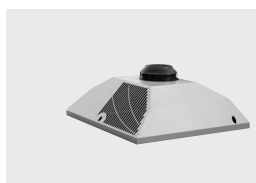
Options

DF1 | DF2 | DF2 W3



Plastic winghood with light kit

DF1 | DF2



Painted soundproofing plenum

DF1 | DF2 | DF2 W3



Plenum with HEPA absolute filter H13- H14

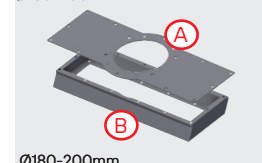
DF1 | DF2 | DF2 W3



Plenum with activated carbons filter

DF2 | DF2 W3

Ø180-200mm



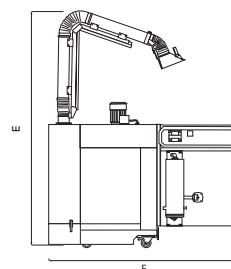
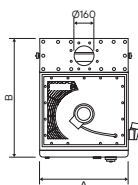
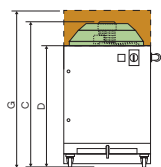
Ø180-200mm

A Inlet plate for arm without soundproofing plenum.

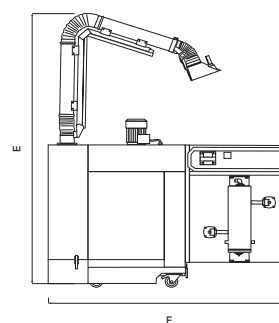
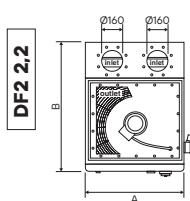
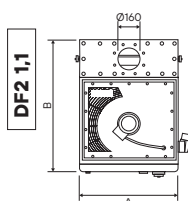
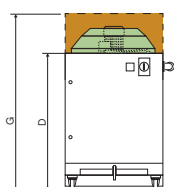
A+B Plate plus inlet fitting for arm with soundproofing plenum

Overall dimensions

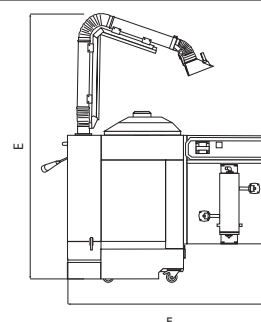
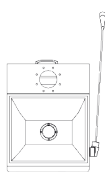
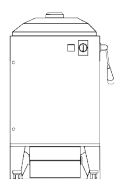
Jetclean DF 1



Jetclean DF 2



Jetclean DF 2 1,1 W3



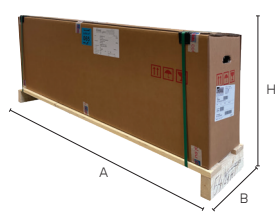
Plenum box with HEPA absolute filter (optional)

Painted soundproofing plenum (optional)

MODEL	DIMENSIONS (mm)						
	A	B	C	D	E	F	G
Jetclean DF 1 0,55	675	905	1129	939	2360	1530	1319
Jetclean DF 1 0,75	675	905	1162	939	2360	1530	1319

MODEL	DIMENSIONS (mm)						
	A	B	C	D	E	F	G
Jetclean DF 2 1,1	750	955	1380	1158	2579	1654	1608
Jetclean DF 2 2,2	750	955	1420	1158	2579	1654	1608
Jetclean DF 2 1,1 W3	750	1045	1530	1161	2725	1654	1608

Packaging information



MODEL	DIMENSIONS (mm) AxBxH	WEIGHT (kg)
Jetclean DF 1 0,55	1100 x 900 x 1300	130
Jetclean DF 1 0,75	1100 x 900 x 1300	130
Jetclean DF 2 1,1	1100 x 1000 x 1600	180
Jetclean DF 2 2,2	1100 x 1000 x 1600	180
Evolution Arm		
No Smoke ø160 from 3 metres	1670 x 370 x 680	35

All images and values on this catalogue are indicative and can be subject to modification and improvements. CORAL reserves the right to change them without previous advice.



Made in Coral

Coral manufactures 100% of all the components that are part of an industrial extraction system within their facilities in Volpiano, just outside of Turin. The quality of materials that we use and our industry experience guarantee a production of high level in everything we make.

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