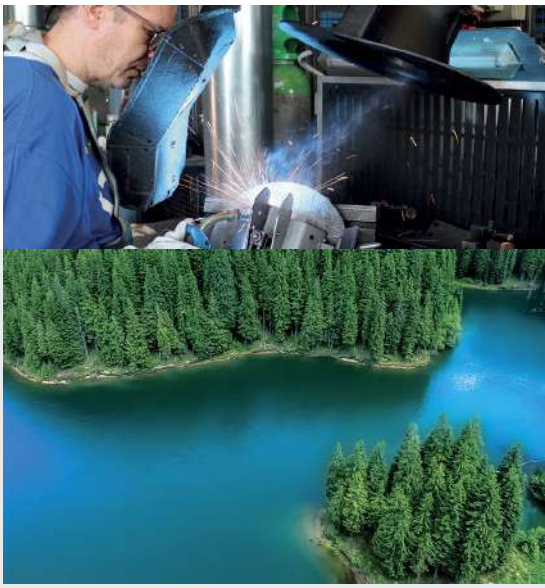
DOWN FLOW PORTABLE FUME EXTRACTOR

coralusa.com

Jetclean DF

High-efficiency, self-cleaning fume extractors





Jetclean DF

Jetclean **DF 1**
Jetclean **DF 2**
Jetclean **DF 1 NFPA 652**

CORAL

Innovative Air Solutions
For a cleaner future.

Design

Horizontal cartridge filter unit, self-cleaning, with integrated centrifugal fan suitable for extraction and filtration of welding fumes, gases, and light vapors. Equipped with a compressed-air cleaning system, it ensures consistent performance and reduced maintenance over time.

Jetclean DF

5 Models

Soundproof plenum chamber

Designed to reduce noise generated by the air exhaust

Cartridge filter
Ø13" H16"-M PES-0.06 lb/ft²

High-efficiency cartridges provide superior dust capture

Rear bin

Coarse dust collection



Pneumatic cleaning system

With compressed air

Front Bin

Fine dust collection

Highlights

- Equipped with **Dynaflex** or **Evolution No Smoke** self-supporting arm as standard.
- **High-efficiency** filter cartridges.
- Automatic **compressed air** cleaning system.
- **High extraction capacity**.
- **Low noise level**.
- **Easy maintenance** thanks to horizontal cartridge design.
- **Plug & Play solution**, no installation required.
- "**Down Flow**" design concept.
- Available in **NFPA-compliant** version.

Applications





Welding | Light grinding | Light deburring | Fine dry dust

Filtration technology



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

DESCRIPTION AND PURPOSE

The IFA-BGIA institute works to ensure the safety and health of workers in the workplace. Filter materials are evaluated according to the L, M, and H classification system. The institute also defines an exposure limit value (AGW), above which worker safety is no longer guaranteed. The exposure limit represents the concentration of a pollutant in the air that a person can safely breathe for a short period of 15 minutes without immediate toxic effects.
The IFA-BGIA test is performed using the following parameters:

- Passage velocity: 11.02 ft/min
- Quartz dust concentration: 200 ± 20 mg/m^3
- Variable particle size: 0.2 - 2 microns

CLASS OF USE	CONCENTRATION	MAXIMUM AUTHORISED RELEASE
M	Filtering out dust with AGW values ≥ 0.1 mg/m^3	>99,9%

Easy access, quick and simple maintenance





The horizontal cartridge arrangement allows for easy access and fast, straightforward maintenance of the filter section.

Filter Media

MEDIA	MATERIALS	sq ft	oz/yd^2	STANDARD	OPTIONAL
M PES	POLYESTER	86.1	8	■	
M-PES+PTFE/Membrane	POLYESTER -TEFLON MEMBRANE	86.1	8.6		■
M-PES+PTFE/Membrane-H	POLYESTER/TEFLLON MEMBRANE/ FABRIC WITH H13 FILTRATION EFFICIENTY	86.1	8.3		■

STANDARD
DF 1 | DF 2 | DF 1 NFPA



M PES

OPTIONAL
DF 1 | DF 2 | DF 1 NFPA



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

Operation principle

The Jetclean DF self-cleaning extractor features a pre-chamber where the majority of fumes are separated and collected in the first bin. Remaining particles are captured by high-efficiency M-class cartridge filters before the air is returned to the environment, with the finest dust collected in the second bin. The filtered air passes through a high-efficiency fan mounted on top of the unit and is expelled through a grille on the upper wall of the plenum, ensuring high extraction capacity and low noise levels. Cartridge cleaning is performed automatically using a compressed-air system.

Jetclean DF





POLLUTED AIR

FILTERED AIR

① Polluted air inlet
② Pre-separation chamber
③ First collection bin
④ Second collection bin
⑤ Filter cartridges
⑥ Fan
⑦ Filtered air outlet
⑧ Compressed air tank
⑨ Start/Stop switch





Production range



Jetclean DF 1

Self-cleaning extractor equipped with 1 horizontal cartridge filter for extraction and filtration of welding fumes, gases, vapors, aerosols, light and heavy dust, and chips. Cartridge cleaning is automatic, performed by a compressed-air system.

Cartridges (nr)	**Power** (HP)
1	1



Jetclean DF 2

Self-cleaning extractor equipped with 2 horizontal cartridge filters for extraction and filtration of welding fumes, gases, vapors, aerosols, light and heavy dust, and chips. Cartridge cleaning is automatic, performed by a compressed-air system.

Cartridges (nr)	**Power** (HP)
2	1.5
2	3



Jetclean DF 1 NFPA 660

Self-cleaning extractor equipped with 1 horizontal cartridge filter, designed for the extraction and filtration of non-conductive, non-metallic explosive dust (ST1) in NFPA 652 compliant applications. Automatic cartridge cleaning by compressed air system.

Cartridges (nr)	**Power** (HP)
1	1.5

Technical features

Technical features		**Model Jetclean DF**			
		DF 1 - 1	**DF 2 - 1.5**	**DF 2 - 3**	**DF 1 NFPA 660**
Power	HP	1	1.5	3	1.5
Airflow	CFM	856	1109	1345	950
Number of Arms		1 x Ø6.3 in - 10 ft	1 x Ø6.3 in - 10 ft	2 x Ø6.3 in - 10 ft	1 x Ø6.3 in - 10 ft
Number of cartridges		1 x Ø12.8 in - H 15.8 in	12x Ø12.8 in - H 15.8 in	2 x Ø12.8 in - H 15.8 in	1 x Ø12.8 in - H 15.8 in
Filtering Surface	sq ft	86.1	172.2	172.2	86.1
Cartridge classification		PES			ANTI-STATIC PES
Pneumatic cleaning		YES	YES	YES	YES
Bin storage capacity (A+B)	gal	2.4 + 4	3.2 + 7.4	3.2 + 7.4	2.4 + 3.2
R.P.M.		3420	3420	3420	3420
Fan power supply	V Hz	120 60	120 60	230/460 60	120 60
Noise level	dB	72	74	74 ,5	74
Noise level with soundproof plenum	dB	65	69	70	69
Total weight	lb	264	341	374	296

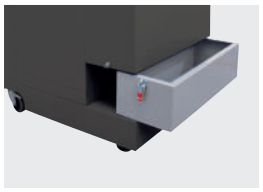
Standard Components

DF 1 | DF 2



Front collection bin

DF 1



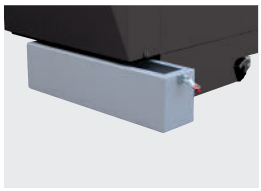
Rear collection bin

DF 2



Mod. **DF 2 - 3** with 2 Evolution No Smoke Ø6.3 in 10 ft extraction arms

DF 2



Rear collection bin

DF 1 | DF 2



Automatic compressed air cleaning tank

DF 1 | DF 2



Differential pressure gauge

DF 1 | DF 2



Single-phase plug with 18 ft power cord

DF 1 NFPA



Evolution No Smoke ATEX extraction arm

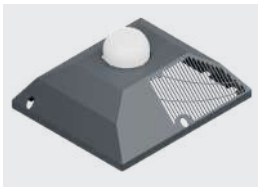
Options

DF 1 | DF 2



Plastic winghood with light kit

DF 1 | DF 2



Painted soundproof plenum

DF 1 | DF 2



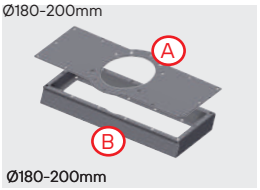
Plenum with absolute H13-H14 HEPA filter

DF 1 | DF 2



Plenum with activated carbon filter

DF 2

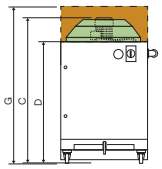


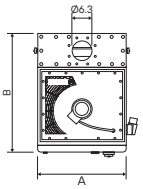
A: Inlet plate for arm without soundproof plenum

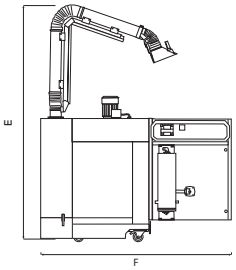
A+B: Plate plus inlet fitting for arm with soundproof plenum

Overall dimensions

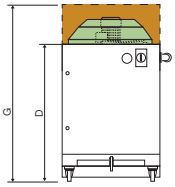
Jetclean DF 1 - DF 1 NFPA

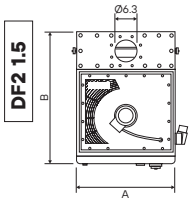


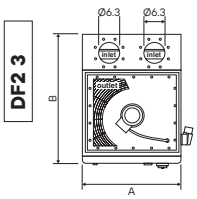


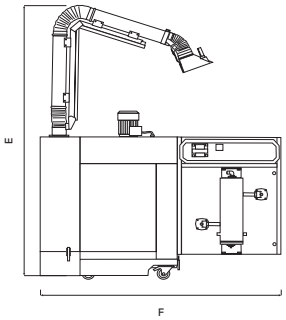


Jetclean DF 2









■ Plenum box with absolute HEPA filter (optional)

■ Painted soundproof plenum (optional)

MODEL	DIMENSIONS (in)						
	A	B	C	D	E	F	G
Jetclean **DF 1**	26.5	35.6	45.7	36.9	92.9	60.2	54.7

MODEL	DIMENSIONS (in)						
	A	B	C	D	E	F	G
Jetclean **DF 2 - 1.5**	29.5	37.6	54.3	45.6	101.5	65.1	63.3
Jetclean **DF 2 - 3**	29.5	37.6	55.9	45.6	101.5	65.1	63.3

Packaging information



MODEL	DIMENSIONS (in) AxBxH	WEIGHT (lb)
Jetclean **DF 1** and **DF 1 NFPA**	44 x 36 x 52	287
Jetclean **DF 2 - 1.5**	44 x40 x 63	397
Jetclean **DF 2 - 3**	44 x 40 x 63	397
Evolution No Smoke Ø6.3 in 10 ft	66 x 15 x 27	78

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



Coral USA

Coral USA provides innovative fume extraction and dust collection solutions for industrial applications.
With decades of experience, Coral combines technical expertise, reliable performance, and a strong commitment to helping you maintain a safer, cleaner, and more productive workplace.

Based in Texas, we're ready to support your business with advanced solutions, responsive service, and ready-to-ship inventory.

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For a cleaner future.

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