

Down Flow filter

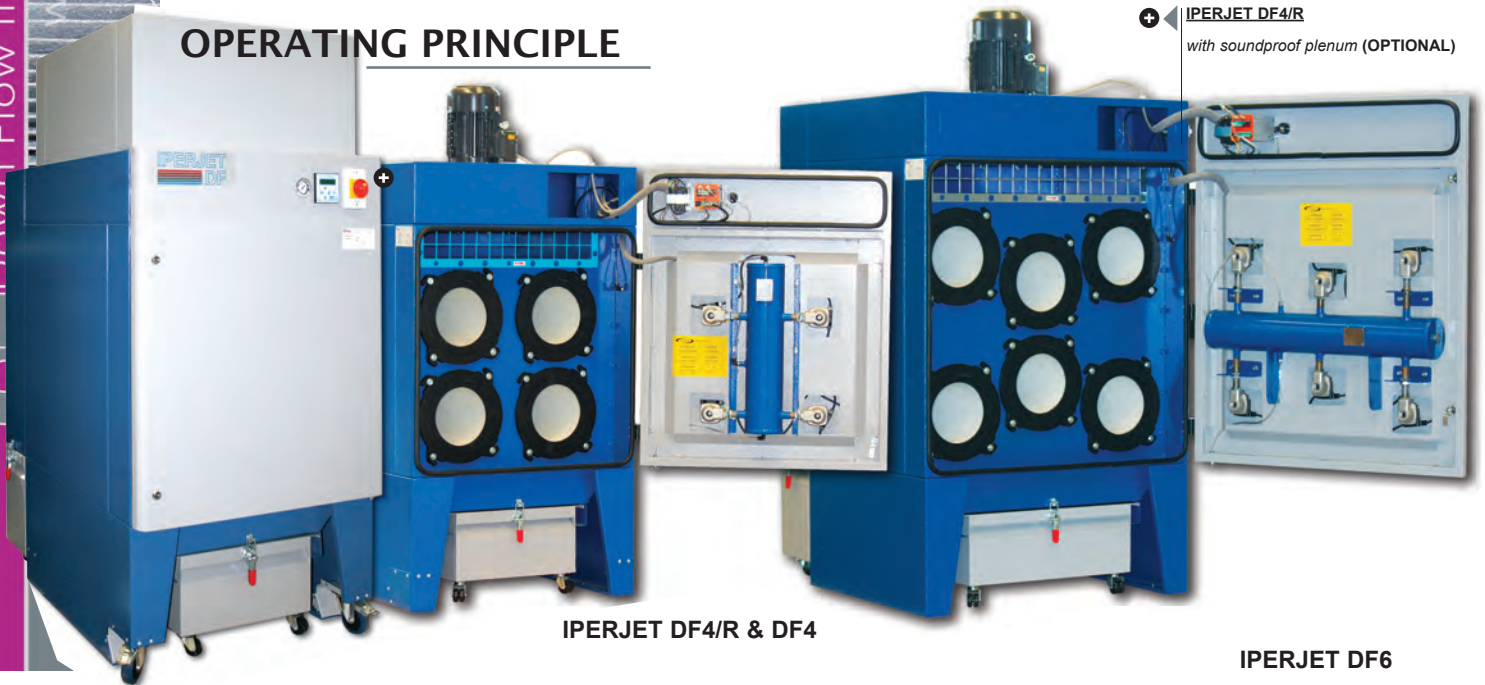
filter



Iperjet DF
& ATEX Compliant 3DST1

Iperjet DF

OPERATING PRINCIPLE



IPERJET DF4/R & DF4

IPERJET DF4/R
with soundproof plenum (OPTIONAL)

IPERJET DF6



HORIZONTAL CARTRIDGES

THE NEW **IPERJET DF** 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 (MOD.THERMALCUT). 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 fan, placed just on the top of the unit, assures a high suction capacity and a low noise level.



IPERJET DF9

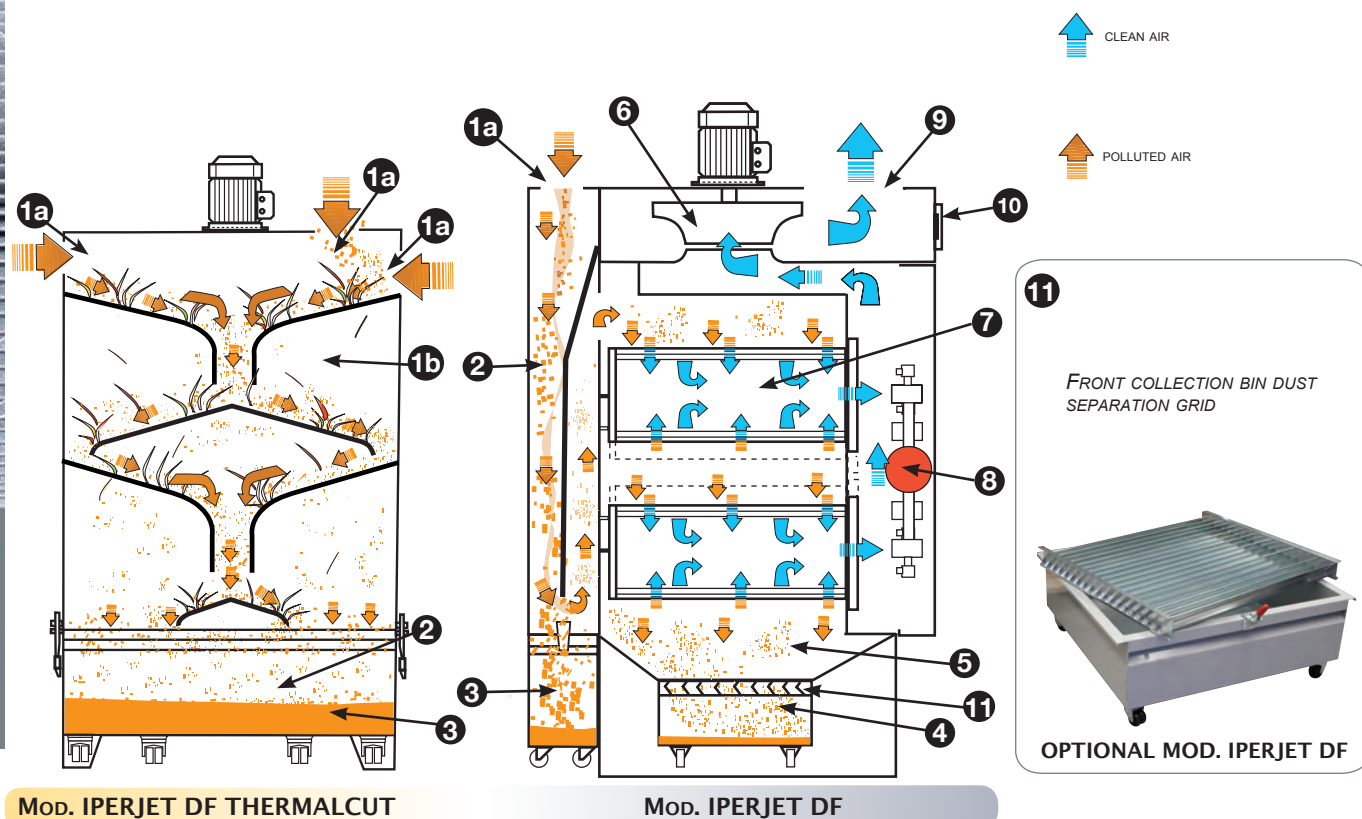
IPERJET DF9 TC thermalcut



IPERJET DF6 TRU
SINGLE HOPPER

Iperjet DF

OPERATING PRINCIPLE



1a POLLUTED AIR INLET

6 FAN

8 COMPRESSED AIR TANK

1b AIR INLET SPARK TRAP

7 FILTERING CARTRIDGES

9 CLEAN AIR OUTLET

2 FIRST SETTLING CHAMBER (coarse dusts)

3 COLLECTION BINS

4 AUFFANGSBEHÄLTER
BIDONES DE RECOLECCIÓN



5 SECOND SETTLING CHAMBER (fine dusts)



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

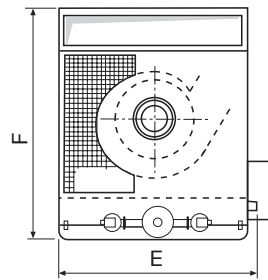
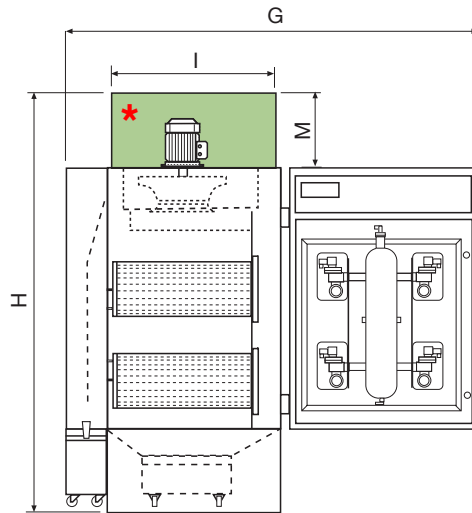
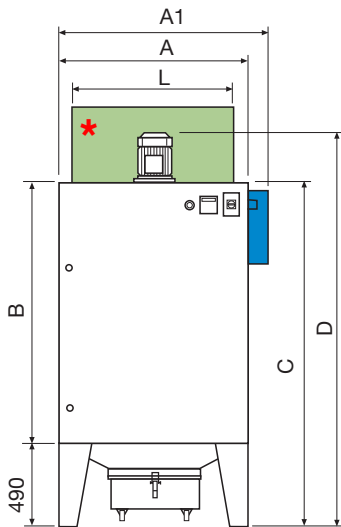
10 PRESSURE SWITCH - ECONOMIZER - ON/OFF SWITCH



5 PINS PLUG

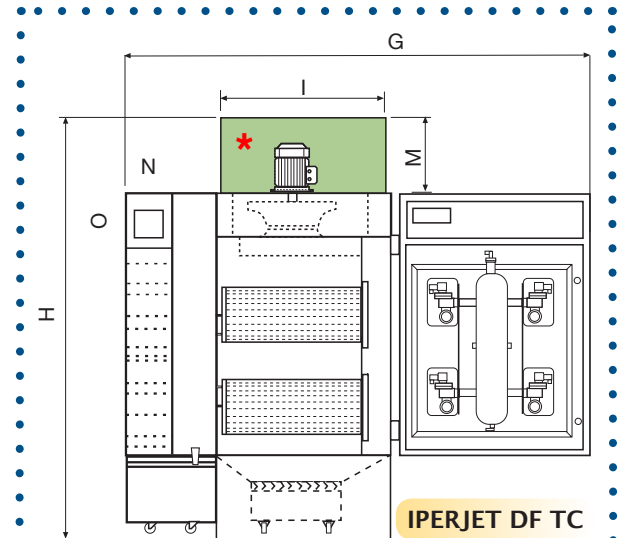
TECHNICAL FEATURES

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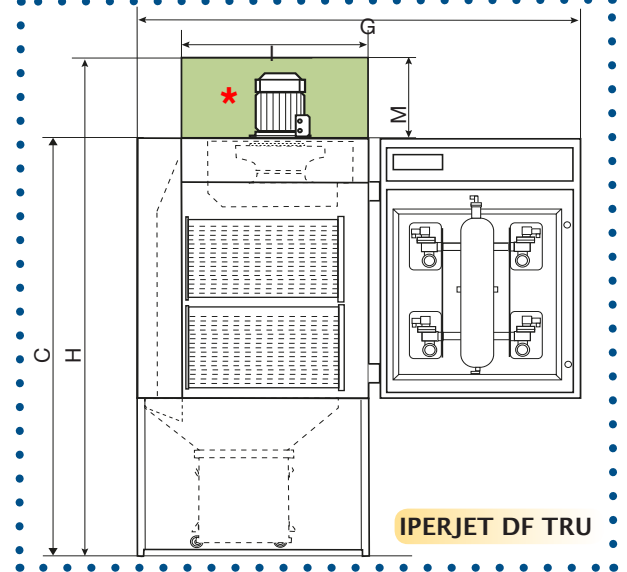


 •SOUNDPROOF PLENUM (OPTIONAL)

 •ELECTRIC CONTROL BOARD (STANDARD ONLY IN DF9)



IPERJET DF TC



IPERJET DF TRU

DIMENSIONS (mm)	IPERJET	A	A1	B	C	D	E	F	G	H	I	L	M	N	O
	DF4 - DF4	930	-	1120	1610	1915	1015	1210	2085	2043	838	866	433	-	-
	DF6 - DF6	1100	-	1315	1805	2130	1190	1210	2260	2358	840	1038	553	-	-
	DF9 - DF9	1300	1500	1490	1979	2340	-	1300	2550	2510	840	1293	553	-	-
	DF4 - DF4 TC	930	-	1120	1610	1900	1015	1400	2280	2043	838	866	433	180	180
	DF6 - DF6 TC	1100	-	1315	1805	2100	1190	1420	2470	2358	840	1038	553	180	180
	DF9 - DF9 TC	1300	1500	1495	1979	2320	-	1540	2725	2800	980	1293	553	180	220
	DF4 - DF4 TRU	930	-	1120	1920	2225	1015	1400	2085	2353	838	866	433		
	DF6 - DF6 TRU	1100	-	1315	2130	2450	1190	1420	2260	2683	840	1038	553		
	DF9 - DF9 TRU	1300	-	1490	2300	2658	-	1540	2550	3211	980	1293	553		

TC THERMALCUT
TRU SINGLE HOPPER

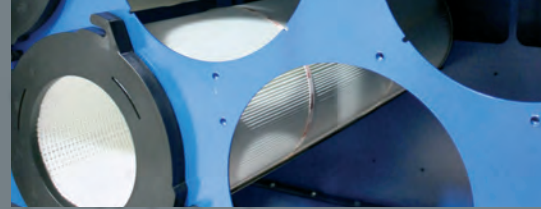
Iperjet DF

Down Flow filter

IPERJET	DF4 - DF4/R DF TRU4		DF4 THERMALCUT	DF6 DF TRU6	DF6 THERMALCUT	DF9 DF TRU9	DF9 THERMALCUT
MODEL	2,2kw	3kw	2,2kw	4KW	3kw	7,5kw	4kw
R.P.M	2865	2895	2865	2900	2895	2915	2900
FAN	PRA250		PRA250	PRA280	PRA250	PRA320	PRA280
ELECTRICAL FEEDING OF FAN ALIMENTACIÓN ELÉCTRICA VENTILADOR	230/400 V 50 Hz		230/400 V 50Hz	400/690 V 50 Hz	230/400 V 50Hz	400/690 V 50 Hz	400/690 V 50Hz
	60 Hz SU RICHIESTA - SUR DEMANDE - ON REQUEST - AUF ANFRAGE - A PETICION						
NOMINAL AIR FLOW	2200 m³/h 1298 cfm	3000 m³/h 1770 cfm	2000 m³/h 1180 cfm	4000 m³/h 2360 cfm	2500 m³/h 1475 cfm	6500 m³/h 3835 cfm	3500 m³/h 2065 cfm
AVAILABLE STATIC INLET PRESSURE STATISCHER NUTZDRUCK	150 mmH₂O	130 mmH₂O	180 mmH₂O	100 mmH₂O	150 mmH₂O	130 mmH₂O	150 mmH₂O
AVERAGE SOUND LEVEL	78 dB 71 dB* 73 dB*		77 dB 70 dB*	81 dB 75 dB*	77 dB 70 dB*	85 dB 79 dB*	79 dB 73 dB*
BIN DUST HOLDING CAPACITY	80+86 lt DF TRU 65 lt		80+123 lt	90+115 lt DF TRU 65 lt	90+146 lt	102+137 lt DF TRU 65 lt	102+137 lt
WEIGHT	380 kg 836 lb DF TRU 415 kg	385 kg 847 lb	460 kg 1012 lb	470 kg 1034 lb DF TRU 500 kg	550 kg 1240 lb	620 kg 1364 lb DF TRU 760 kg	752 kg 1654 lb
WORKING TANK HEADER PRESSURE	MAX 8 BAR						
ELECTRICAL FEEDING OF VALVE	24 VDC						

* •WITH SOUNDPROOF PLENUM (OPTIONAL) •MIT SCHALLDÄMMHAUBE (OPTIONAL)





CARTRIDGES FILTERS

CARTRIDGES FILTERS	IPERJET	DF TRU			THERMALCUT		
		DF4-DF4/R	DF6	DF9	DF4-DF4/R	DF6	DF9
	NUMBER OF CARTRIDGES	4	6	9	4	4	6
	IFA/BGIA RATING	M PES (STANDARD) POLYESTER			M-PES+PTFE/MEMBRANE POLYESTER-TEFLON MEMBRANE		M-NANOTECH CELLULOSE WITH NANOFIBERS
	CARTRIDGES DIMENSIONS	Ø325 - H750 mm			Ø325 - H750 mm		Ø325 - H660 mm

FILTERING SURFACE	IPERJET DF - DF TRU M-PES	DF4-DF4/R 2,2 kW 3 kW 37m² / 3,4 sq.ft 48m² / 4,4 sq.ft	DF6 4 kW 72m² / 6,7sq.ft	DF9 7,5 kW 108m² / 10 sq.ft
	IPERJET THERMALCUT M-PES+PTFE/MEMBRANE	DF4-DF4/R 2,2 kW 48 m² / 4,4 sq.ft	DF6 3 kW 48 m² / 4,4 sq.ft	DF9 4 kW 72 m² / 6,7 sq.ft
	IPERJET THERMALCUT M-NANOTECH	DF4-DF4/R 2,2 kW 84 m² / 7,8 sq.ft	DF6 3 kW 84 m² / 7,8 sq.ft	DF9 4 kW 126 m² / 11,7sq.ft

OPTIONALS MEDIA IPERJET DF - DF TRU

M PES/TF

POLYESTER/PTFE COATING

M/CEL

CELLULOSE

M-PES/AX/EXAM ACCREDITED

POLYESTER/ALUMINIUM COATED/ANTISTATIC

M PES+ PTFE/MEMBRANE

POLYESTER/TEFLON MEMBRANE

Ø 325 H 750

M PES/OWR

POLYESTER/OLEO-HYDROPHOBIC

M-NANOTECH Ø 325 H 660

CELLULOSE WITH NANOFIBERS



Iperjet DF

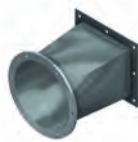
OPTIONAL

- PRESSURE GAUGE KIT TO DETECT THE CLOGGING OF THE HEPA FILTER

- INLET CONNECTION



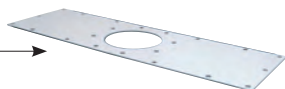
DF - DF TRU



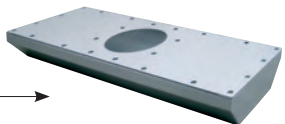
DF TC

- INLET CONNECTION FOR ARMS. FOR IPERJET DF4 AND 4R ONLY.

1xØ150mm
2xØ150mm



1xØ180mm
1xØ200mm

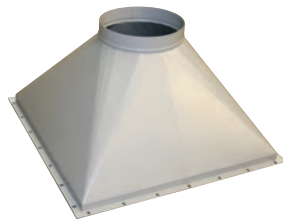


- EVOLUTION No-SMOKE ARM (OPTIONAL) FOR IPERJET DF/4

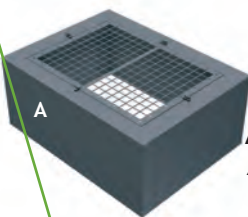
OPTIONAL



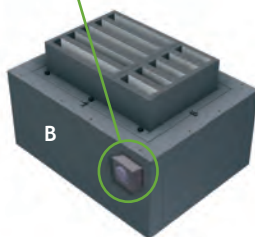
- DUCTING KIT FOR CLEAN AIR OUTLET



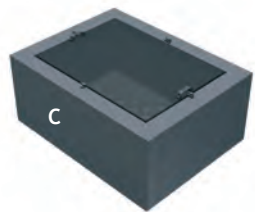
- SOUNDPROOF PLENUM



A
AVEC GRILLE
WITH NET

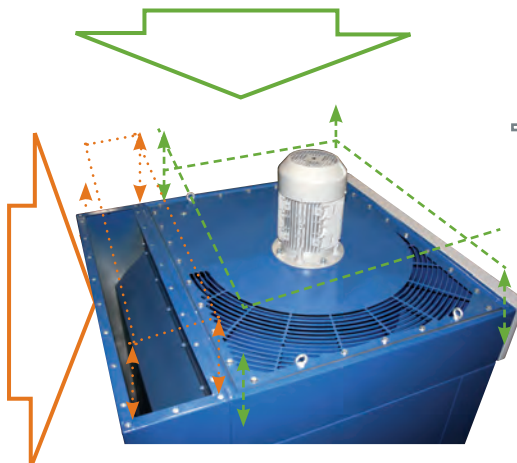


B
WITH HEPA FILTER



C
WITH ACTIVATED
CARBONS

DF - DF TC - DF TRU



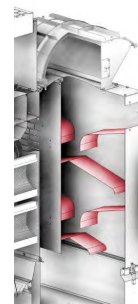
DF

- AIR INTAKE SPARK ARRESTOR KIT



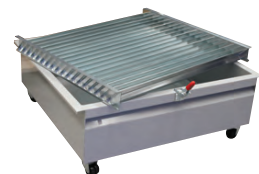
mod. SS

- AIR INTAKE SPARK ARRESTOR KIT **TO BE REQUESTED AT THE ORDER (STANDARD ON TC MODEL)**



mod. CSS

- FRONT COLLECTION BIN DUST SEPARATION GRID FOR IPERJET DF



- FIRE EXTINGUISHER TO BE SIZED ON APPLICATION



- ELECTRIC CONTROL BOARD FOR DF4 AND DF6 (STANDARD FOR DF9 - DF9 TRU)



Iperjet DF

ATEX COMPLIANT 3DST1

ATEX
Compliant

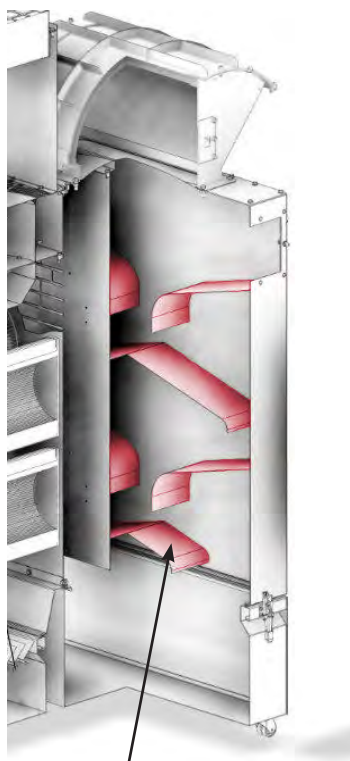


1 CONTROL PANEL according to CE rules
remoted about 5 meters out of the ATEX area

◀ **IPERJET DF 6 3DST1**

Iperjet DF

ATEX COMPLIANT 3DST1



•DEFLECTOR AIR INLET SPARK TRAP



CARTRIDGE FILTERS

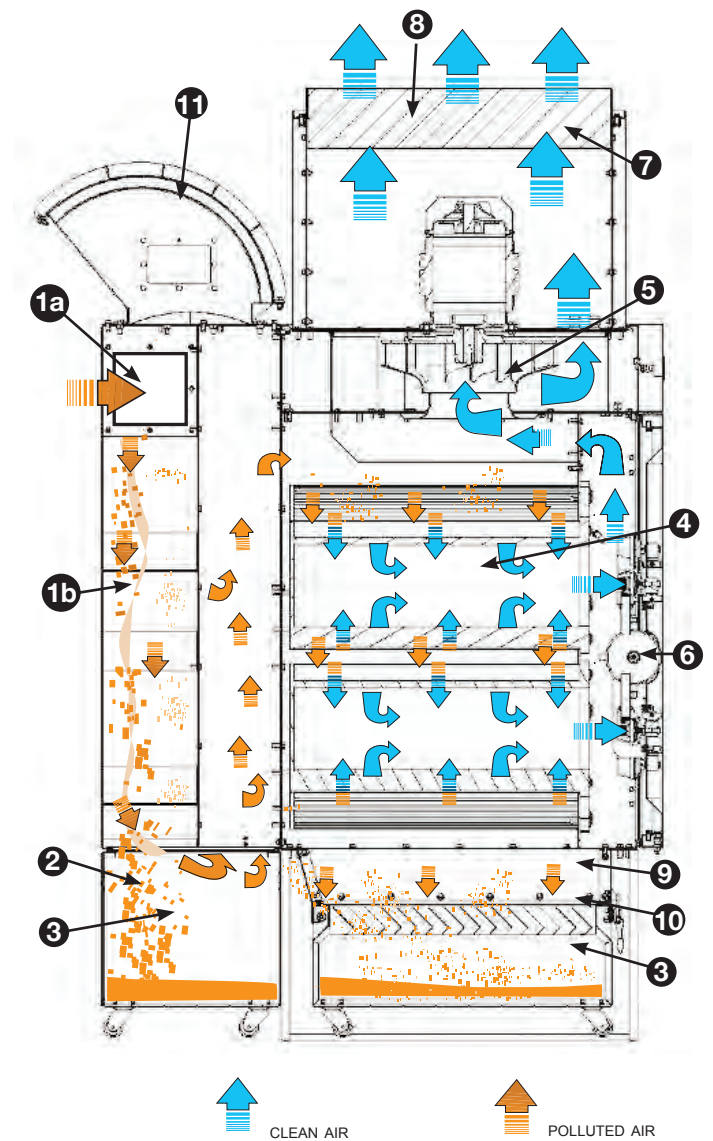
The horizontal mounted cartridges allows an easy access and quick maintenance of the filters

WORKING PRINCIPLE

The IPERJET DF 3DST1 Dust Collector has been designed to capture ST1 Combustible Dusts. The Heavy-Duty Painted Steel Cabinet has been tested to withstand a deflagration to be used outdoors with an Explosion Vent or indoors with a Flameless Vent. The polluted air is drawn into the unit by the top mounted integrated fan into the large vertical pre-chamber. The air velocity is slowed down by the internal deflector plates so larger particles will drop out of the airstream by means of mechanical separation into the first dust container on caster for easy disposal. The remaining particles are then filtered by the main cartridge filters. The filters are automatically cleaned by the on demand reverse jet pulse filter cleaning system. These particles are released from the filters and fall into the large secondary fine dust container located under the filters for easy disposal. The filtered air is then discharged out the top of the unit and back into the workspace.

OPERATING PRINCIPLE

- 1a**
• POLLUTED AIR INLET
- 1b**
• AIR INLET SPARK TRAP
- 2**
• FIRST SETTLING CHAMBER (coarse dusts)
- 3**
• COLLECTION BIN FOR FINE DUSTS
- 4**
• FILTERING CARTRIDGES
- 5**
• FAN
- 6**
• COMPRESSED AIR TANK
- 7**
• CHAMBER SILENCER AND HEPA FINAL FILTER (INDOOR)
- 8**
• CLEAN AIR OUTLET
- 9**
• SECOND SETTLING CHAMBER (fine dusts)
- 10**
• FRONT COLLECTION BIN DUST SEPARATION GRID
- 11**
• INDOOR-VENT FLAMELESS EXPLOSION VENT SYSTEM MOD.INDOOR•EM



Iperjet DF

ATEX COMPLIANT 3DST1

INDOOR



INDOOR-VENT
FLAMELESS EXPLOSION VENT SYSTEM.

CHAMBER SILENCER AND HEPA FINAL
FILTER



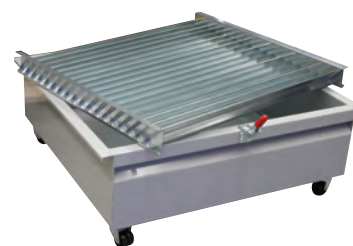
PAINTED AIR INLET CONNECTION

OPTIONAL



▪ATEX ELECTRIC MOTOR

ATEX EX II 3GD c EEx nA IIC IP55 T3 - zone 2



▪FRONT COLLECTION BIN DUST SEPARATION GRID

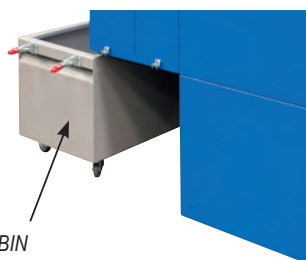


FILTERING UNIT WITH IFA/BGIA M-PES/AX EXAM
ACCREDITED:

- HORIZONTAL CARTRIDGES WITH AUTOMATIC COMPRESSED AIR JET CLEANING SYSTEM
- AIR INLET CHAMBER WITH SPARK ARRESTOR
- REINFORCED DUST COLLECTION DOUBLE DRAWER
- REMOTE MOUNT ELECTRIC CONTROL PANEL WITH 5MTS CABLE
- FLAMELESS EXPLOSION VENT SYSTEM
- ATEX ELECTRIC MOTOR WITH SPARK PROOF INLET SYSTEM
- CHAMBER SILENCER BOX WITH HEPA FILTER

OPTIONAL

- ACTIVATED CARBON FILTER
- PAINTED AIR INLET CONNECTION



BACK COLLECTION BIN



▪ATEX COILS AND MATRIX CABLE



▪ANTISTATIC CARTRIDGES

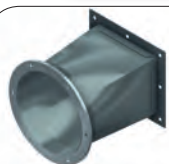
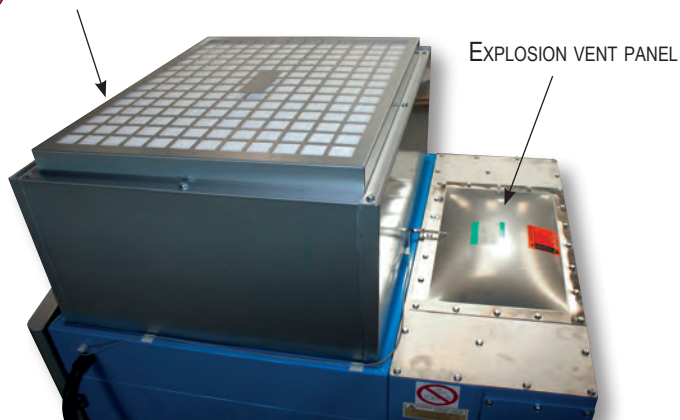


FRONT COLLECTION BIN
HINTERER SAMMELBEHÄLTER

OUTDOOR

OPTIONAL

CHAMBER SILENCER AND HEPA FINAL FILTER



PAINTED AIR INLET CONNECTION

OPTIONAL



FILTERING UNIT WITH IFA/BGIA M-PES/AX EXAM ACCREDITED:

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- PAINTED AIR INLET CONNECTION

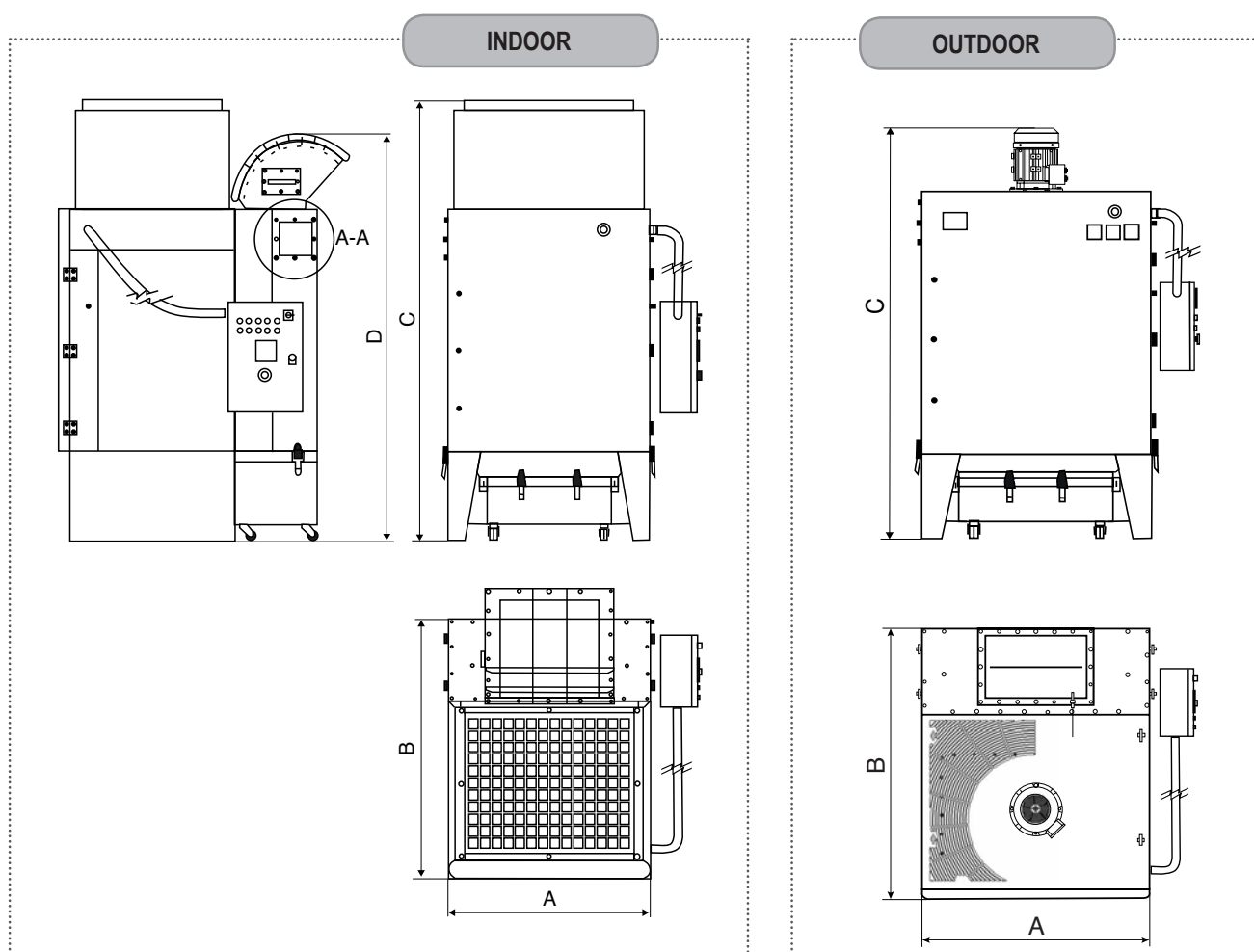
CARTRIDGES FILTERS

CARTRIDGES FILTERS	IPERJET	INDOOR			OUTDOOR		
		DF4	DF6	DF9	DF4	DF6	DF9
	NUMBER OF CARTRIDGES	4	6	9	4	6	9
	IFA/BGIA RATING	M PES/AX/EXAM ACCREDITED POLYESTER - ALUMINUM COATED/ANTISTATIC			M PES/AX/EXAM ACCREDITED POLYESTER - ALUMINUM COATED/ANTISTATIC		
	CARTRIDGES DIMENSIONS	Ø325 - H750 mm			Ø325 - H750 mm		
	FILTERING SURFACE	48 m ²	72 m ²	108 m ²	48 m ²	72 m ²	108 m ²

IPERJET 3D ST1		DF 4	DF6	DF9
POWER		3 kW	4 kW	7,5 kW
		4 HP	5,5 HP	10 HP
ELECTRICAL FEEDING OF FAN		230/400 V 50 Hz	230/400 V 50 Hz	230/400 V 50 Hz
R.P.M		2800	2800	2800
MAX AIR FLOW		3000 m ³ /h 1766 cfm	4000 m ³ /h 2354 cfm	6500 m ³ /h 3826 cfm
AVAILABLE INLET STATIC PRESSURE		130 mm H ₂ O 100 mm H ₂ O	100 mm H ₂ O 70 mm H ₂ O	130 mm H ₂ O 100 mm H ₂ O
BIN DUST HOLDING CAPACITY		80/123 lt	90/146 lt	102/188 lt
PIPE AIR SPEED		5"	5"	5"
SOLENOID VALVES		4 x VEP (3/4")	6 x VEP (3/4")	9 x VEP (3/4")
AVERAGE SOUND LEVEL	OUTDOOR	78 dB	81 dB	85 dB
	INDOOR	71 dB	74 dB	78 dB
WEIGHT	OUTDOOR	460 Kg	550 Kg	752 Kg
	INDOOR	545 Kg	600 Kg	874 Kg
WORKING TANK HEADER PRESSURE		MAX 8 BAR		

TECHNICAL FEATURES

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INDOOR

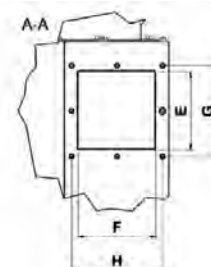
OUTDOOR

Dimensions (mm)	IPERJET DF 3D ST1	A	B	C	C	D
	DF4	930	1400	2245	1915	2015
	DF6	1100	1420	2400	2130	2200
	DF9	1300	1540	2800	2340	2390

INDOOR & OUTDOOR

INGRESSO - AIR INLET - INLET - INPUT - ENTRADA

Dimensions (mm)	IPERJET DF 3D ST1	E	F	G	H
	DF4	180	180	210	210
	DF6	180	180	210	210
	DF9	220	180	250	210





ANTIPOLLUTION SYSTEMS

CORAL S.P.A. Corso Europa, 597 - 10088 Volpiano (Torino) ITALY
☎ +39 011 9822000 r.a. Fax +39 011 9822033-044

www.coral.eu

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MEGACAP (M) SDN BHD (192183-T)
Lot 7793 Jalan Batu Tiga, Bukit Cheraiah, 40150
Shah Alam, Selangor, Malaysia
Tel: +603-7847 5990 Fax: +603-78475992
H/P: +6019 332 1577 Philip Yong
Email: philipmegacap@gmail.com
Website : www.megacap.com.my www.coral.eu