

Extraction benches

Polijet DF | Poliweld DF | PoliEx | BS|BS/S | BS plasma

Workbenches
for mechanical industry



Polijet DF

Polijet DF 1500-2000-2500

Poliweld DF

Poliweld DF 1500-2000-2500

Poliex

Poliex 1500-2000-2500

BS | BS/S

BS | BS/S 1000-1500-2000-2500

BS Plasma

BS Plasma 1000-1500-2000

Design

The benches are made of a series of panels bolted together and suitably sized to give strength to the structure, which can support loads of up to 250 Kg/m² evenly distributed over the work surface. Standard versions are supplied in galvanized metal panels or are painted on request. The suction work surface is removable to allow possible inspections in the unit. Side walls are available on request to avoid spreading of material.

Extraction benches

20

Models

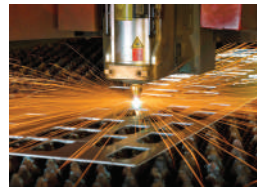
Applications



Welding fumes



Powders



Thermal cut

Solution for clean air

A range of suction benches suitable in every manufacturing sector. They have the right application for every use: from low concentrations of smoke and fine dust to substances with fire and explosion properties.

The accurate design of our benches suction slots allows the complete capture of harmful fumes at source, before they can reach the operator's respiratory ways and damage them.

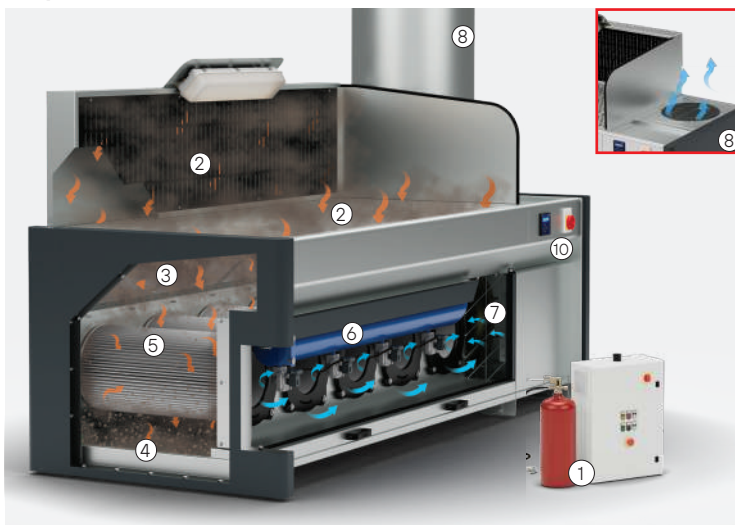
Application example with PoliEx



Principle of operation

The air extracted through the work bench and front wall is conveyed to the chutes, then passes through the metal mesh filters where any incandescent sparks are extinguished and/or retained. The dusty air passes through the cartridge filters, which retain the dust, and (only for the **Polijet DF** version) the filters cleaning is carried out with a compressed air pulse jet and the consequent dust separation. The heaviest material falls into the dust collection tray. Clean air exits through the grille on top of the machine. The automatic fire extinguishing system with fire extinguisher and electrical panel is recommended in case of machining operations that produce sparks.

Polijet DF | Poliweld DF



- ① Fire extinguishing system (recommended option)
 - ② Dusty air inlet
 - ③ Metallic mesh filter
 - ④ Collection drawer
 - ⑤ Filter cartridges
 - ⑤a High-speed suction tunnel
 - ⑥ Compressed air tank (PoliJet DF)
 - ⑦ Fan
 - ⑧ Filtered air outlet
 - ⑨ Dusty air outlet
 - ⑩ Economiser
- Run/stop switch

The extracted air flows through the working table and front wall and it is conveyed downwards. The heaviest material falls into the dust collection tray. Dusty air passes through the fan and exits through the grille at the rear of the machine (**BS**). Filtration system to be provided. Dusty air exits through the opening located on the side of the machine (**BS/S**). It is necessary to provide an extraction and filtration system.

BS | BS/S



The extracted air flows through the working surface and it is conveyed downwards where the dusty air passes through the tunnel at high suction speed in order to avoid potentially flammable deposits, and it exits through the opening on the side of the unit. It is necessary to provide an extraction and filtration system

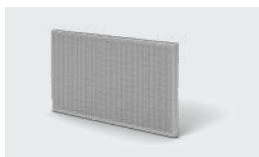
Poliex | BS Plasma



Polijet DF



- Extremely easy maintenance.
- 99.9% filtration efficiency.
- Suitable for particles from 0.2÷2 microns.
- **'Plug & Play' solution**, no installation required.
- **'Down Flow Concept'**.



Metal anti-spark filter



Economiser



Automatic compressed air cleaning system



Switch ON/OFF



Pentapolar socket

Optional

1500 | 2000 | 2500



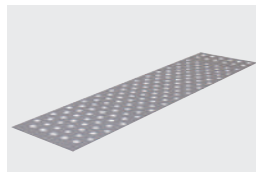
Automatic fire extinguishing system with fire extinguisher and control panel. Recommended for work generating sparks

1500 | 2000 | 2500



Bench top felt

1500 | 2000 | 2500



Bench top polypropylene

1500 | 2000 | 2500



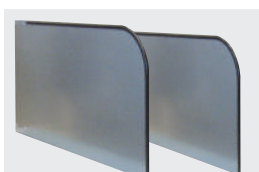
Non-extracting extension for bench top Width 360mm

1500 | 2000 | 2500



Light kit for suction wall

1500 | 2000 | 2500



Non-suction fixed side walls

1500 | 2000 | 2500



Afon silencer + Diffuser Kit

1500 | 2000 | 2500



Non-suction fairing for bench top

1500 | 2000 | 2500



Absolute filter kit

Technical features

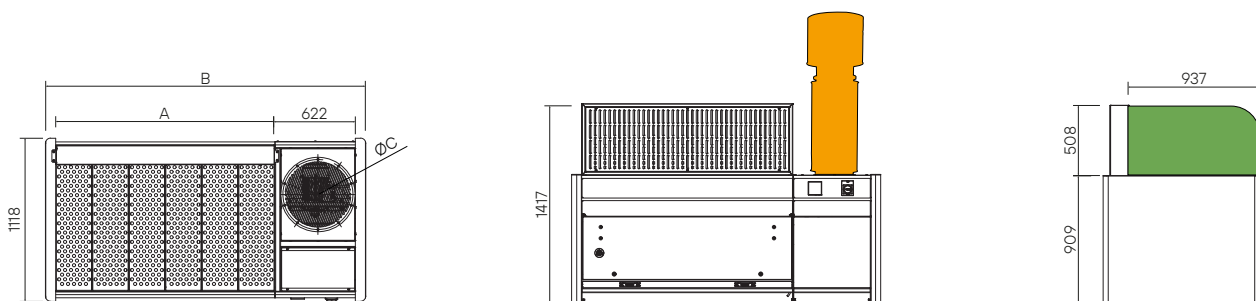
Technical features	Model Polijet DF			
	DF 1500	DF 2000	DF 2500	
Power	kW	2,2	3	4
Maximum flow rate	m ³ /h	3800	4800	5800
Number of cartridges	Ø325 mm H 660 mm	3	5	6
Filtering area	m ²	33	55	66
IFA/BGIA certification	TEFLON			
Cleaning system	Automatically controlled pneumatic item			
RPM		2900	2900	2900
Voltage	V	230/400	230/400	230/400
	Hz	50	50	50
Weight	Kg	400	490	580
Filter dimensions	mm	2193 x 1118 x 1411	2693 x 1118 x 1411	3193 x 1118 x 1411
	Maximum available load			
Distributed load	Kg/m ²	250	250	250
Available placing surface	m ²	1,3	1,7	2,1

Filter Media

MEDIA	MATERIALS	m ²	g/m ²	STANDARD	OPTIONAL
M PES/TF	TEFLON-COATED POLYESTER	11,5	270	■	
M-PES/AX/EXAM ACCREDITED	POLYESTER /ALUMINISED/ ANTISTATIC	11,5	270		■
M-PES+PTFE/MEMBRANE	POLYESTER - TEFLON MEMBRANE	11,5	290		■
M PES+ PTFE/MEMBRANE-H	POLYESTER/ TEFLON MEMBRANE/ FABRIC WITH H13 FILTRATION EFFICIENCY	11,5	270		■
M PES/ FR	POLYESTER/ FLAME RETARDANT	11,5	270		■



Overall dimensions



■ Afon silencer and diffuser kit (Optional)

■ Non-suction fixed side walls (Optional)

MODEL	DIMENSIONS (mm)		
	A	B	ØC
Polijet DF 1500	1500	2195	450
Polijet DF 2000	2000	2695	450
Polijet DF 2500	2500	3195	450

Poliweld DF



- Maximum filtration efficiency of welding fumes.
- Extremely **easy maintenance**.
- **Plug & Play solution**, no installation required.
- **'Down Flow Concept'**.



Metal anti-spark filter



ON/OFF switch



Manometer



Pentapolar socket

Optional

1500 | 2000 | 2500



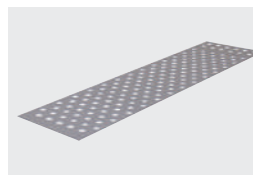
Automatic fire extinguishing system with fire extinguisher and control panel. Recommended for work generating sparks

1500 | 2000 | 2500



bench top felt

1500 | 2000 | 2500



Bench top polypropylene

1500 | 2000 | 2500



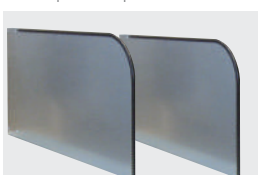
Non-suction extension for bench plate width 360 mm

1500 | 2000 | 2500



Light kit for suction wall

1500 | 2000 | 2500



Non-suction fixed side walls

1500 | 2000 | 2500



Afon silencer + Diffuser Kit

1500 | 2000 | 2500



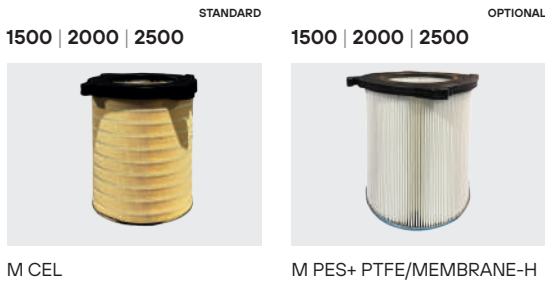
Absolute filter kit

Technical features

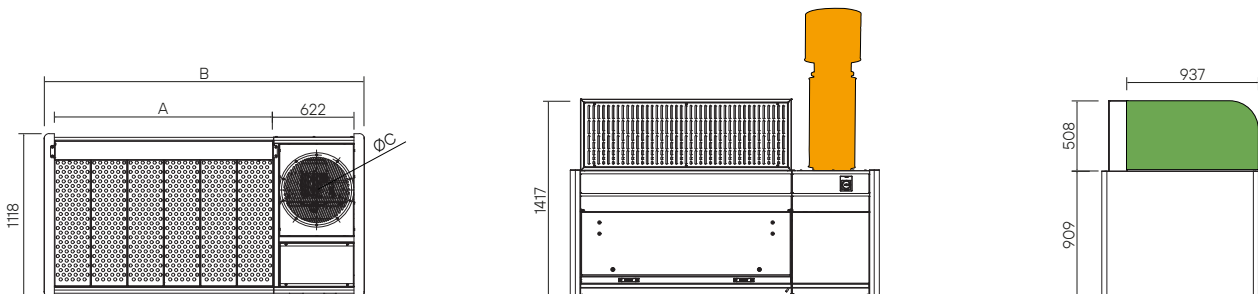
Technical features	Model Poliweld DF			
	DF 1500	DF 2000	DF 2500	
Power	kW	2,2	3	4
Maximum flow rate	m ³ /h	4000	5000	6000
Number of cartridges	Ø325mm H 660 mm	3	5	6
Filtering area	m ²	54	90	108
IFA/BGIA certification		CELLULOSE		
RPM		2900	2900	2900
Voltage	V	230/400	230/400	230/400
	Hz	50	50	50
Weight	Kg	380	465	535
Filter dimensions	mm	2193 x 1118 x 1411	2693 x 1118 x 1411	3193 x 1118 x 1411
		Maximum available load		
Load distribution	Kg/m ²	250	250	250
Available placing surface	m ²	1,3	1,7	2,1

Filter Media

MEDIA	MATERIALS	m ²	g/m ²	STANDARD	OPTIONAL
M CEL	CELLULOSE	20	213	■	
M PES+ PTFE/MEMBRANE-H	POLYESTER/ TEFLON MEMBRANE/ FABRIC WITH H13 FILTRATION EFFICIENCY	11,5	270		■



Overall dimensions



■ Afon silencer and diffuser kit (Optional) ■ Non-suction fixed side walls (Optional)

MODEL	DIMENSIONS (mm)		
	A	B	C
Poliweld DF 1500	1500	2195	450
Poliweld DF 2000	2000	2695	450
Poliweld DF 2500	2500	3195	450

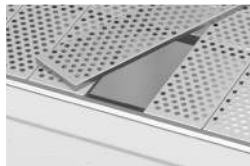
PoliEx



- The PoliEx suction table finds its perfect application in suction and filtration systems located in potentially **explosive environments (ATEX)**.
- **Covered hopper** with double curve with **progressive extraction**.
- Opening for **cleaning** and **maintenance** control.
- Special '**No Residual Powder**' extraction outlet.
- **Direct extraction** to the source, diffused and constant over the entire working surface.
- **Independent structure** that can be easily positioned or conveniently connected to an extraction system.
- **Immediate** and effective **protection** of the operator: pollutants are sucked in before they can spread out.
- **Down Flow Concept**.



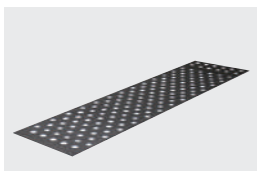
Inspection hole



Galvanised steel extraction plate

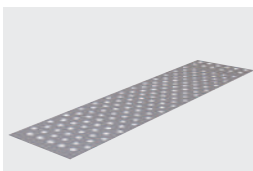
Optional

1500 | 2000 | 2500



Bench top felt

1500 | 2000 | 2500



Bench top polypropylene

1500 | 2000 | 2500



Front extracting wall

1500 | 2000 | 2500



Light kit for extracting wall

1500 | 2000 | 2500

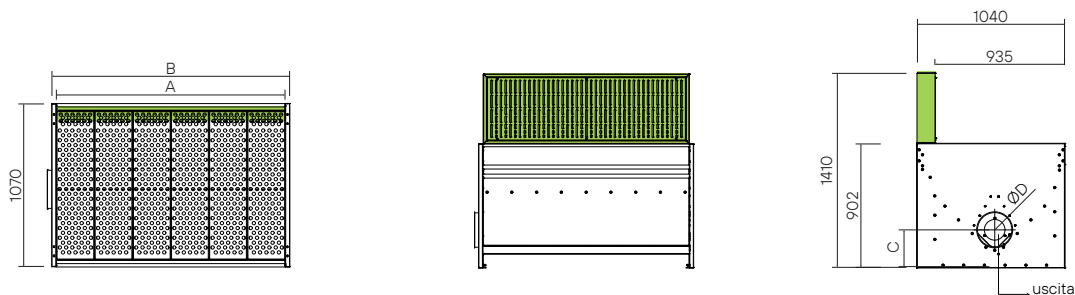


Fixed non-suction side walls

Technical features

Technical features		Model PoliEx		
		1500	2000	2500
Maximum flow rate	m ³ /h	4300	5300	6300
Pressure drop	Pa	250	300	350
Weight	kg	165	210	255
Maximum available load				
Load distribution	Kg/m ²	250	250	250
Available placing surface	m ²	1,6	2,1	2,6
Available placing surface with front wall	m ²	1,3	1,7	2,1

Overall dimensions



■ Front suction wall (Optional)

MODEL	DIMENSIONS (mm)			
	A	B	C	ØD
Poliex 1500	1500	1562	276	250
Poliex 2000	2000	2062	300	300
Poliex 2500	2500	2562	326	350

BS | BS/S



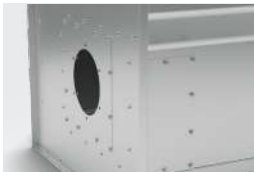
- Galvanised steel extraction plate.
- Large dust collection tray.
- High-efficiency internal fan.
- Plug & Play solution, no installation required.

BS



Air outlet

BS/S



Air inlet

BS



ON/OFF switch

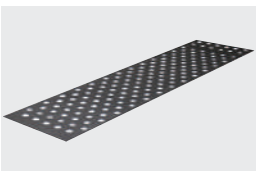
BS|BS/S



Front extracting wall

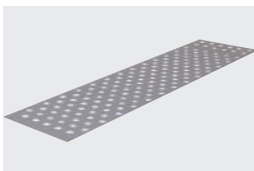
Optional

1500 | 2000 | 2500



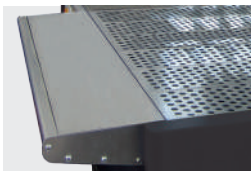
Bench top felt

1500 | 2000 | 2500



Bench top polypropylene

1500 | 2000 | 2500



Non-suction extension for bench top L=360mm

1500 | 2000 | 2500



Light kit for extracting wall

1500 | 2000 | 2500



non-suction fixed walls

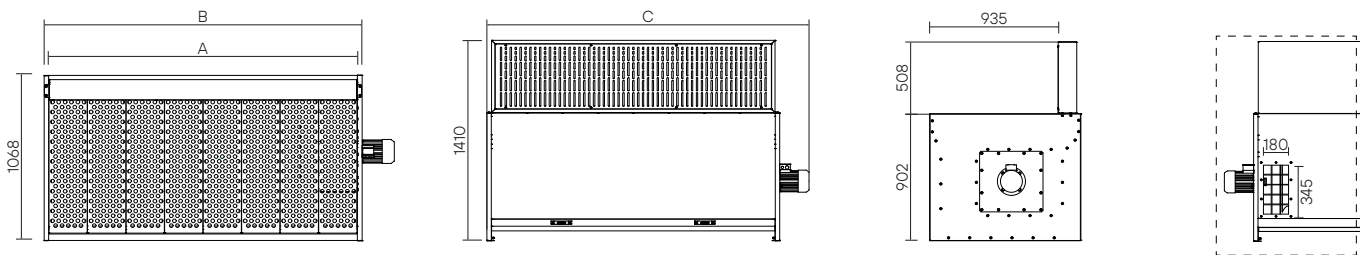
Technical features

Technical features		Model BS			
		1000	1500	2000	2500
Power	kW	0,55	0,75	0,75	1,1
Maximum flow rate	m ³ /h	2500	3000	3500	4500
RPM		1380	1410	1410	1420
Sound level	dB	76	77	79	81
Weight	kg	152	189	220	256
Voltage	V	230/400	230/400	230/400	230/400
	Hz	50	50	50	50
Maximum available load					
Load distribution	kg/ m ²	250	250	250	250
Available placing surface	m ²	0,9	1,3	1,7	2,1

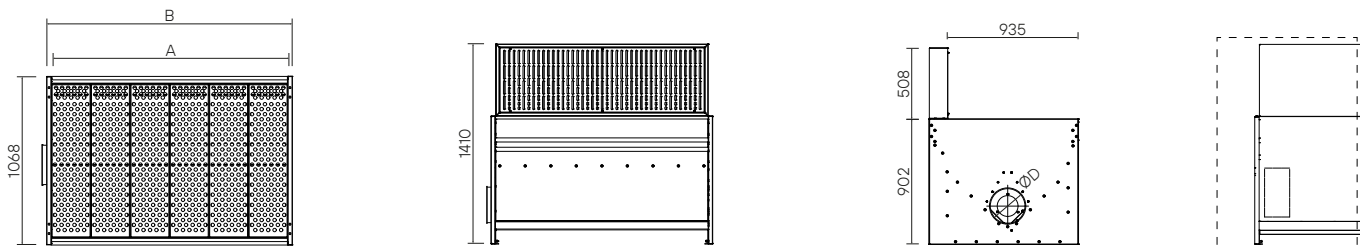
Technical features		Model BS/S			
		1000	1500	2000	2500
Maximum flow rate	m ³ /h	2500	3000	3500	4500
Weight	kg	126	170	200	242
Maximum available load					
Load distribution	kg/ m ²	250	250	250	250
Available placing surface	m ²	0,9	1,3	1,7	2,1

Overall dimensions

BS



BS/S



MODEL	DIMENSIONS (mm)			
	A	B	C	ØD
BS BS/S 1000	1000	1060	1268	200
BS BS/S 1500	1500	1560	1768	250
BS BS/S 2000	2000	2060	2268	300
BS BS/S 2500	2500	2560	2853	350

BS plasma



- **Steel** extracting bench
- Large drawer for **collecting** plasma cutting **dust**.
- **Available with front extracting wall** for greater extraction efficiency.
- On request, fixed side walls and light kit for a better visibility.



Steel extraction plate

Optional

1500 | 2000 | 2500



Front extraction wall

1500 | 2000 | 2500



Light kit for extracting wall

1500 | 2000 | 2500

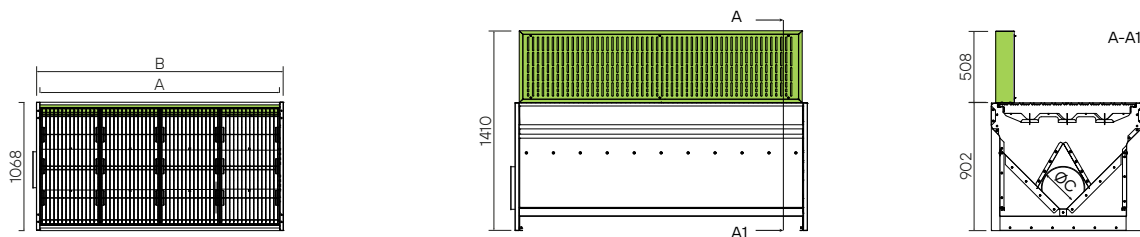


non-suction fixed walls

Technical features

Technical features		Model BS plasma		
		1000	1500	2000
Maximum flow rate	m ³ /h	2500	3000	3500
Weight	kg	185	253	340
		Maximum available load		
Load distribution	kg/ m ²	250	250	250

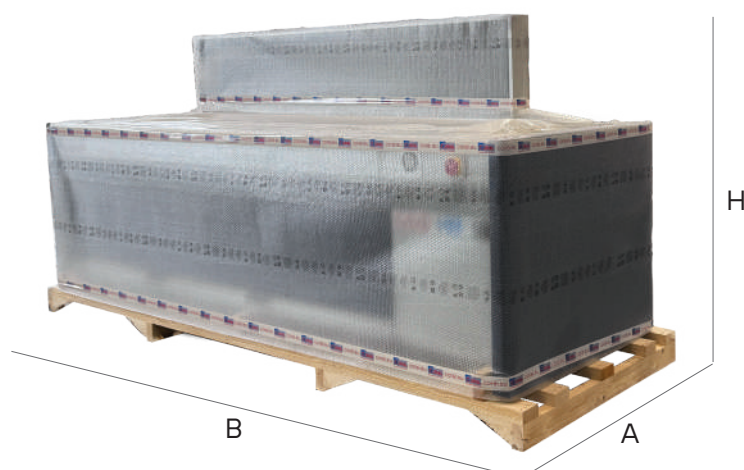
Overall dimensions



■ Front suction wall (Optional)

MODEL	DIMENSIONS (mm)		
	A	B	ØC
BS plasma 1000	1000	1060	200
BS plasma 1500	1500	1560	250
BS plasma 2000	2000	2060	300

Shipment packaging



MODEL	DIMENSIONS (mm) AxBxH	WEIGHT (kg)
Polijet DF 1500	1178 x 2255 x 1508	425
Polijet DF 2000	1178 x 2755 x 1508	520
Polijet DF 2500	1178 x 3255 x 1508	635

MODEL	DIMENSIONS (mm) AxBxH	WEIGHT (kg)
Poliweld DF 1500	1178 x 2255 x 1508	405
Poliweld DF 2000	1178 x 2755 x 1508	505
Poliweld DF 2500	1178 x 3255 x 1508	590

MODEL	DIMENSIONS (mm) AxBxH	WEIGHT (kg)
Poliex 1500	1168 x 2255 x 1037	180
Poliex 2000	1168 x 2755 x 1037	230
Poliex 2500	1168 x 3255 x 1037	280

MODEL	BS DIMENSIONS (mm) AxBxH	BS/S DIMENSIONS (mm) AxBxH	WEIGHT (kg) BS	WEIGHT (kg) BS/S
BS BS/S 1000	1168 x 1368 x 1545	1168 x 1160 x 1545	162	136
BS BS/S 1500	1168 x 1868 x 1545	1168 x 1660 x 1545	204	185
BS BS/S 2000	1168 x 2368 x 1545	1168 x 2160 x 1545	240	220
BS BS/S 2500	1168 x 2953 x 1545	1168 x 2660 x 1545	281	267

MODEL	DIMENSIONS (mm) AxBxH	WEIGHT (kg)
BS plasma 1000	1168 x 2255 x 1037	180
BS plasma 1500	1168 x 2755 x 1037	230
BS plasma 2000	1168 x 3255 x 1037	280

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.

Gallery





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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