# Downdraft tables

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

### Downdraft tables with cartridge filters






**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**

CORAL

Innovative Air Solutions
For a cleaner future.

# Design

The benches are constructed from a series of bolted panels, sized to provide a strong structure capable of supporting loads up to 250 lb/ft² evenly distributed across the work surface. Standard versions are supplied with galvanized metal panels, with painted panels available upon request. The suction work surface is removable to allow inspections inside the unit. Side walls are available on request to prevent material from spreading.

**Downdraft Tables**

20 Models

# Applications





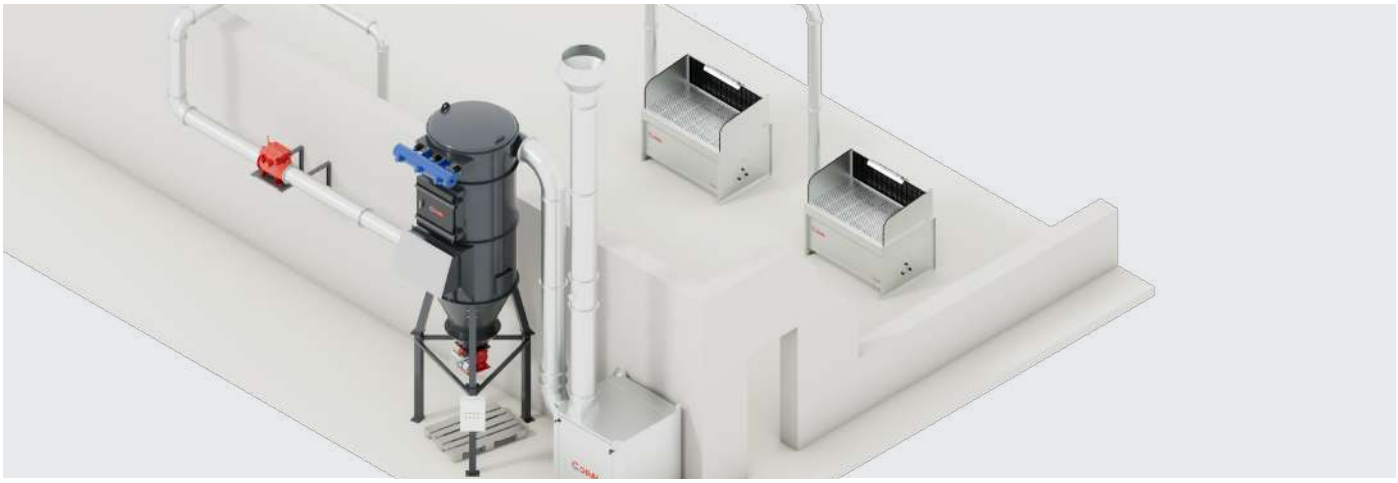
Grinding I Welding I Sanding I Polishing

# Solution for clean air

A range of downdraft tables suitable for every manufacturing sector. They are designed for a variety of applications, from low concentrations of smoke and fine dust to materials with fire or explosion hazards.

The carefully engineered suction slots of our benches ensure complete capture of harmful fumes at the source, preventing them from reaching the operator's respiratory system.

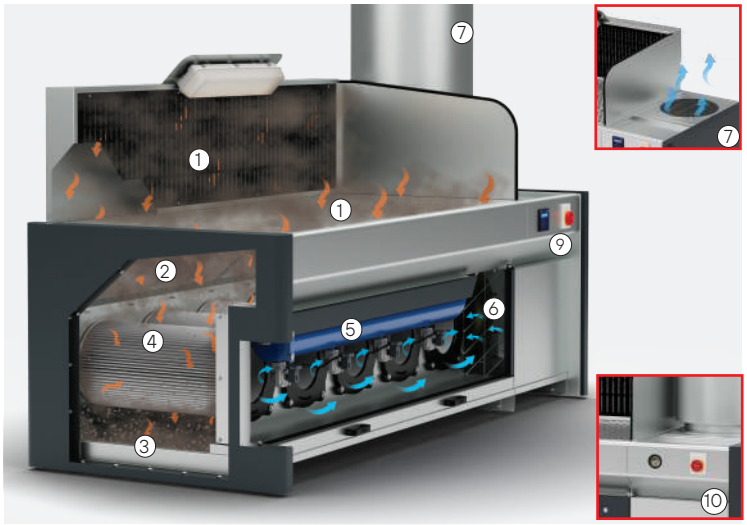
**Application example with PoliEx**



# Principle of operation

Air extracted through the downdraft table and front wall is directed into the chutes, then passes through the metal mesh filters, where any incandescent sparks are extinguished or retained. The dusty air then flows through the cartridge filters, which capture the remaining dust. (For the **Polijet DF version** only, the filters are cleaned using a compressed-air pulse, which separates the collected dust.) The heaviest material falls into the dust collection tray. Clean air is discharged through the grille at the top of the unit. An automatic fire-extinguishing system, including a fire extinguisher and electrical panel, is recommended for machining operations that produce sparks.

### Polijet DF | Poliweld DF



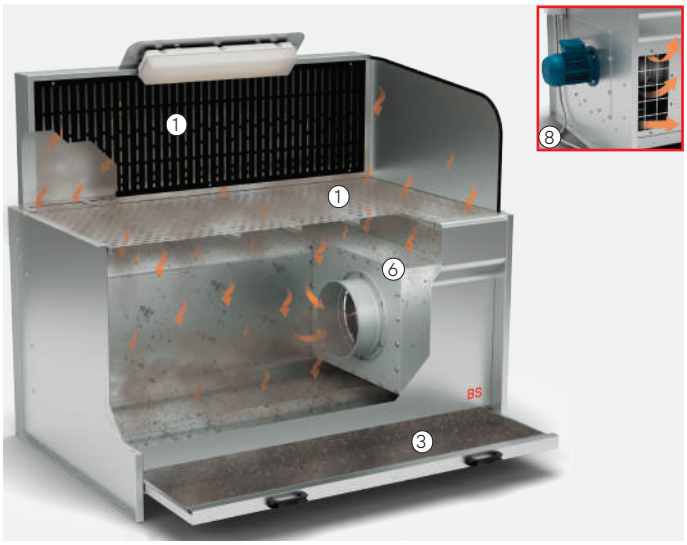

POLLUTED AIR FILTERED AIR

1. Dusty air inlet
2. Metallic mesh filter
3. Collection drawer
4. Filter cartridges
5. High-speed suction tunnel
5a. Compressed air tank (PoliJet DF)
6. Fan
7. Filtered air outlet
8. Dusty air outlet
9. Economizer (Polijet DF) Start/Stop switch
10. Pressure gauge (Poliweld DF) Start/Stop switch

Air is extracted through the worktable and front wall and directed downward. The heaviest material falls into the dust collection tray. Dusty air passes through the fan and exits through the rear grille of the machine (**BS version**). A filtration system must be provided. In the **BS/S version**, dusty air exits through the side opening, and an extraction and filtration system is required.

Air is extracted through the work surface and directed downward, where it passes through the tunnel at high suction speed to prevent potentially flammable deposits. The air then exits through the side opening of the unit. An extraction and filtration system must be provided.

### BS | BS/S



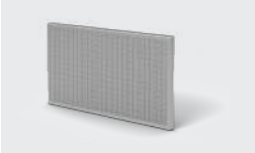

### Poliex | BS Plasma



# 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



Start/Stop switch

# Optional

**1500 | 2000 | 2500**



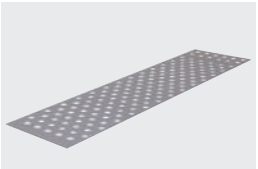
Automatic fire extinguishing system with fire extinguisher and control panel - recommended for spark-generating operations

**1500 | 2000 | 2500**



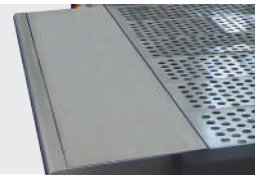
Bench top felt

**1500 | 2000 | 2500**



Bench top polypropylene

**1500 | 2000 | 2500**



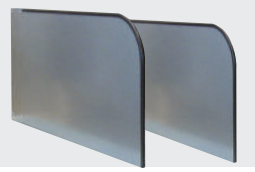
Non-suction bench top extension for 14.2" bench top width

**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 bench top fairing

**1500 | 2000 | 2500**



Absolute filter kit

# Technical features

| **Technical features** | | **Model Polijet DF** DF 1500 | DF 2000 | DF 2500 |
|---|---|---|---|---|
| Power | HP | 4 | 5.5 | 7.5 |
| Maximum flow rate | CFM | 2237 | 2826 | 3414 |
| Number of cartridges | | 3 x Ø12.8 in - H 26 in | 5 x Ø12.8 in - H 26 in | 6 x Ø12.8 in - H 26 in |
| Filtering area | sq ft | 371.4 | 619 | 742.8 |
| IFA/BGIA certification | | TEFLON | | |
| Cleaning system | | **Automatically controlled pneumatic item** | | |
| R.P.M. | | 3450 | 3450 | 3450 |
| Voltage | V<br>Hz | 230/460<br>60 | 230/460<br>60 | 230/460<br>60 |
| Weight | lb | 882 | 1081 | 1279 |
| Filter dimensions | In | 87 x 44 x 1411 | 106 x 44 x 56 | 126 x 44 x 56 |
| | | **Maximum available load** | | |
| Distributed load | lb/ft² | 51.2 | 51.2 | 51.2 |
| Available placing surface | sq ft | 14 | 18.3 | 22.6 |

# Filter Media

| **MEDIA** | **MATERIALS** | sq ft | oz/yd² | **STANDARD** | **OPTIONAL** |
|---|---|---|---|---|---|
| **M PES/TF** | TEFLON-COATED POLYESTER | 123.8 | 8 | ■ | |
| **M-PES/AX/EXAM ACCREDITED** | POLYESTER /ALUMINISED/ ANTISTATIC | 123.8 | 8 | | ■ |
| **M-PES+PTFE/MEMBRANE** | POLYESTER - TEFLON MEMBRANE | 123.8 | 8 | | ■ |
| **M PES+ PTFE/MEMBRANE-H** | POLYESTER/ TEFLON MEMBRANE/ FABRIC WITH H13 FILTRATION EFFICIENCY | 123.8 | 8 | | ■ |
| **M PES/ FR** | POLYESTER/ FLAME RETARDANT | 123.8 | 8 | | ■ |

STANDARD
**1500 | 2000 | 2500**



M-PES/TF

OPTIONAL
**1500 | 2000 | 2500**



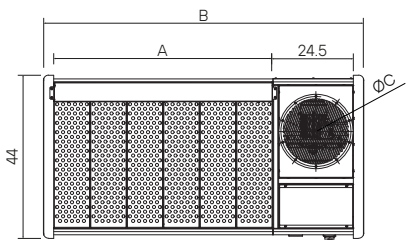
M PES/ FR

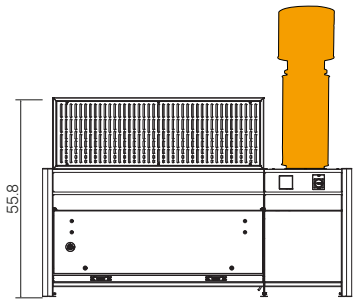
OPTIONAL
**1500 | 2000 | 2500**

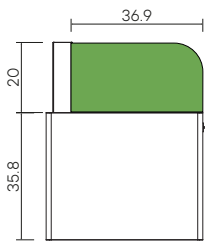


M PES/AX/EXAM ACCREDITED

# Overall dimensions




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

| **MODEL** | **DIMENSIONS** (inches) A | B | ØC |
|---|---|---|---|
| Polijet **DF 1500** | 59 | 86.4 | 17.7 |
| Polijet **DF 2000** | 78.7 | 106.1 | 17.7 |
| Polijet **DF 2500** | 98.4 | 125.8 | 17.7 |

# Poliweld DF



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



Metal anti-spark filter



Start/Stop switch



Pressure gauge

# Optional

**1500 | 2000 | 2500**



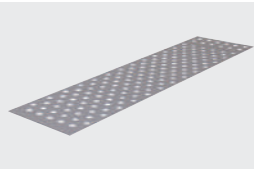
Automatic fire extinguishing system with fire extinguisher and control panel - recommended for spark-generating operations

**1500 | 2000 | 2500**



Bench top felt

**1500 | 2000 | 2500**



Bench top polypropylene

**1500 | 2000 | 2500**



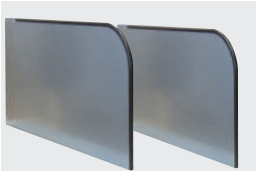
Non-suction bench top extension for 14.17 in bench top width

**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 | HP | 3 | 4 | 5.5 |
| Maximum flow rate | CFM | 2354.3 | 2942.9 | 3531.5 |
| Number of cartridges | | 3 x Ø12.8 in - H 26 in | 5 x Ø12.8 in - H 26 in | 6 x Ø12.8 in - H 26 in |
| Filtering area | sq ft | 645.9 | 1076.5 | 1291.8 |
| IFA/BGIA certification | | CELLULOSE | | |
| R.P.M. | | 2900 | 2900 | 2900 |
| Voltage | V<br>Hz | 230/460<br>60 | 230/460<br>60 | 230/460<br>60 |
| Weight | lb | 837.8 | 1025.2 | 1179.5 |
| Filter dimensions | In | 2193 x 1118 x 1411 | 2693 x 1118 x 1411 | 3193 x 1118 x 1411 |
| | | **Maximum available load** | | |
| Load distribution | lb/ft² | 51.2 | 51.2 | 51.2 |
| Available placing surface | sq ft | 14 | 18.3 | 22.6 |

# Filter Media

| MEDIA | MATERIALS | sq ft | oz/yd² | STANDARD | OPTIONAL |
|---|---|---|---|---|---|
| M CEL | CELLULOSE | 215.3 | 6.3 | ■ | |
| M PES+ PTFE/MEMBRANE-H | POLYESTER/ TEFLON MEMBRANE/ FABRIC WITH H13 FILTRATION EFFICIENCY | 123.8 | 8 | | ■ |

STANDARD
**1500 | 2000 | 2500**



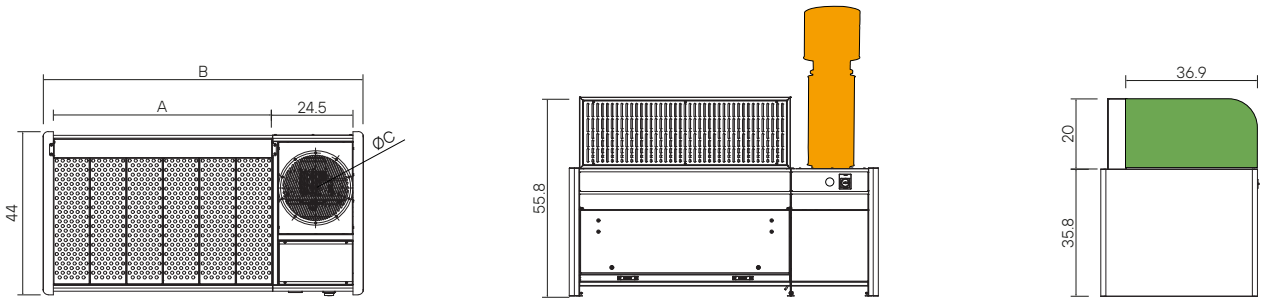
M CEL

OPTIONAL
**1500 | 2000 | 2500**



M PES+ PTFE/MEMBRANE-H

# Overall dimensions




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

| MODEL | DIMENSIONS (inches) A | B | ØC |
|---|---|---|---|
| Poliweld **DF 1500** | 59 | 86.4 | 17.7 |
| Poliweld **DF 2000** | 78.7 | 106.1 | 17.7 |
| Poliweld **DF 2500** | 98.4 | 125.8 | 17.7 |

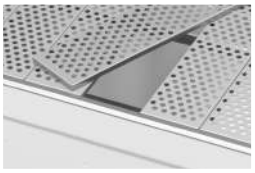
# PoliEx




- The PoliEx downdraft table is ideally suited for extraction and filtration systems operating in **potentially explosive (ATEX) environments**.
- **Covered hopper** with a double-curve design for **progressive and uniform extraction**.
- Access opening for **inspection**, **cleaning** and **maintenance**.
- Special **'No Residual Powder'** extraction outlet.
- **Direct source capture**, evenly distributed across the entire work surface.
- **Self-supporting structure**, easy to position or connect to a centralized extraction system.
- **Immediate and effective operator protection**: pollutants are captured before they can disperse into the work area.
- **Down Flow Concept**.



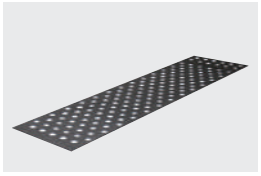
Inspection hole



Galvanized steel extraction plate

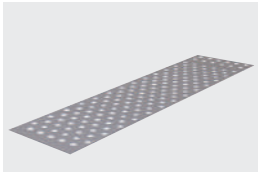
# Optional

**1500 | 2000 | 2500**



Bench top felt

**1500 | 2000 | 2500**



Bench top polypropylene

**1500 | 2000 | 2500**



Front extraction wall

**1500 | 2000 | 2500**



Light kit for extracting wall

**1500 | 2000 | 2500**

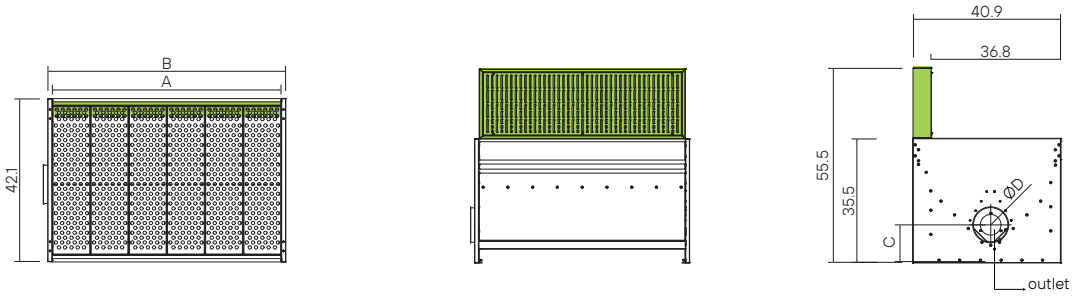


Fixed non-suction side walls

# Technical features

| Technical features | | Model PoliEx 1500 | 2000 | 2500 |
|---|---|---|---|---|
| Maximum flow rate | CFM | 2530.9 | 3119.5 | 3708 |
| Pressure drop | in w.g. | 1 | 1.2 | 1.4 |
| Weight | lb | 363.8 | 463 | 562.2 |
| | | | **Maximum available load** | |
| Load distribution | lb/ft² | 51.2 | 51.2 | 51.2 |
| Available placing surface | sq ft | 17.2 | 22.6 | 28 |
| Available placing surface with front wall | sq ft | 14 | 18.3 | 22.6 |

# Overall dimensions




Front extraction wall (Optional)

| MODEL | DIMENSIONS (inches) A | B | C | ØD |
|---|---|---|---|---|
| Poliex **1500** | 59 | 61.5 | 10.9 | 9.8 |
| Poliex **2000** | 78.7 | 81.2 | 11.8 | 11.8 |
| Poliex **2500** | 98.5 | 100.9 | 12.8 | 13.8 |

# BS | BS/S



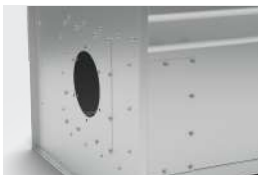

- **Galvanized steel** extraction plate.
- **Large dust** collection tray.
- High-efficiency **integrated fan**.
- **Plug & Play solution**, no installation required.

**BS**



Air outlet

**BS/S**



Air inlet

**BS**



Start/Stop switch

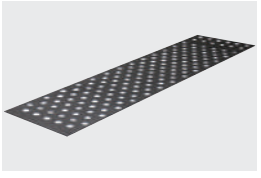
**BS|BS/S**



Front extraction wall

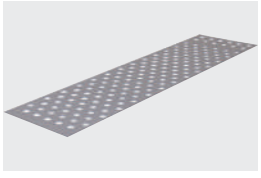
# Optional

**1000 | 1500 | 2000 | 2500**



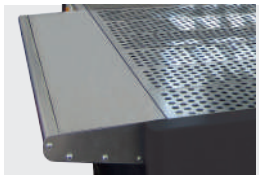
Bench top felt

**1000 | 1500 | 2000 | 2500**



Bench top polypropylene

**1000 | 1500 | 2000 | 2500**



Non-suction extension for bench top L=14.2"

**1000 | 1500 | 2000 | 2500**



Light kit for extracting wall

**1000 | 1500 | 2000 | 2500**



Non-suction fixed walls

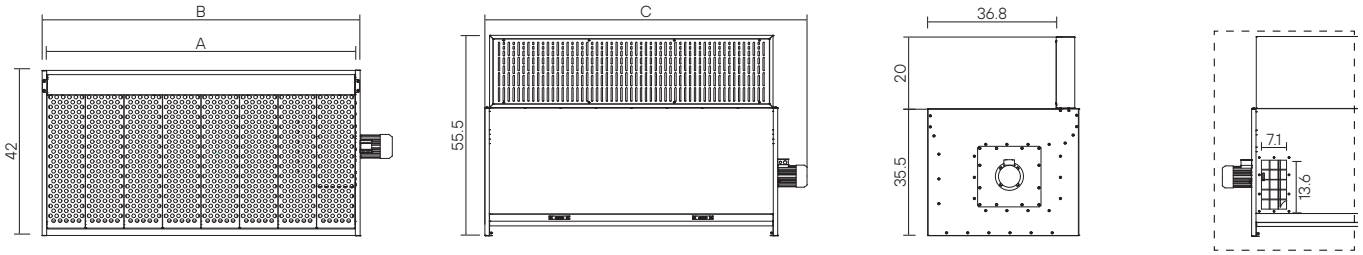
# Technical features

| **Technical features** | | **Model BS** | | | |
|---|---|---|---|---|---|
| | | **1000** | **1500** | **2000** | **2500** |
| Power | HP | 0.75 | 1 | 1 | 1,5 |
| Maximum flow rate | CFM | 1471.4 | 1765.7 | 2060 | 2648.6 |
| R.P.M. | | 1750 | 1750 | 1750 | 1750 |
| Sound level | dB | 76 | 77 | 79 | 81 |
| Weight | lb | 335.1 | 416.7 | 485 | 564.4 |
| Voltage | V<br>Hz | 230/460<br>60 | 230/460<br>60 | 230/460<br>60 | 230/460<br>60 |
| | | **Maximum available load** | | | |
| Load distribution | lb/ft² | 51.2 | 51.2 | 51.2 | 51.2 |
| Available placing surface | sq ft | 9.7 | 14 | 18.3 | 22.6 |

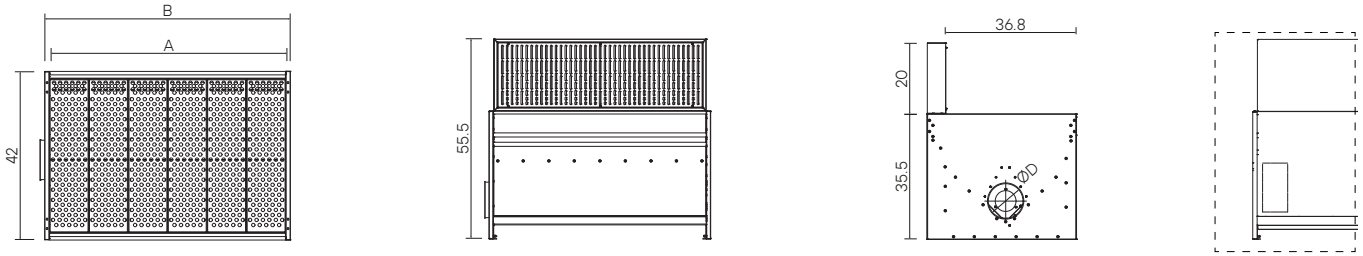
| **Technical features** | | **Model BS/S** | | | |
|---|---|---|---|---|---|
| | | **1000** | **1500** | **2000** | **2500** |
| Maximum flow rate | CFM | 1471.4 | 1765.7 | 2060 | 2648.6 |
| Weight | lb | 277.8 | 374.8 | 440.9 | 533.5 |
| | | **Maximum available load** | | | |
| Load distribution | lb/ft² | 51.2 | 51.2 | 51.2 | 51.2 |
| Available placing surface | sq ft | 9.7 | 14 | 18.3 | 22.6 |

# Overall dimensions

## BS




## BS/S

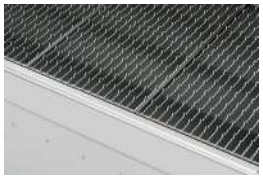



| **MODEL** | **DIMENSIONS** (inches) | | | |
|---|---|---|---|---|
| | **A** | **B** | **C** | **ØD** |
| BS \| BS/S **1000** | 39.4 | 41.7 | 49.9 | 7.9 |
| BS \| BS/S **1500** | 59 | 61.4 | 69.6 | 9.8 |
| BS \| BS/S **2000** | 78.7 | 81.1 | 89.3 | 11.8 |
| BS \| BS/S **2500** | 98.4 | 100.8 | 112.3 | 13.8 |

# BS plasma




- **Steel** extracting bench.
- Large pull-out drawer for plasma cutting **dust collection**.
- **Available with front extraction wall** for improved capture efficiency.
- **Optional** fixed side walls and integrated light kit for enhanced visibility.



Steel extraction plate

# Optional

**1000 | 1500 | 2000**



Front extraction wall

**1000 | 1500 | 2000**



Light kit for extracting wall

**1000 | 1500 | 2000**

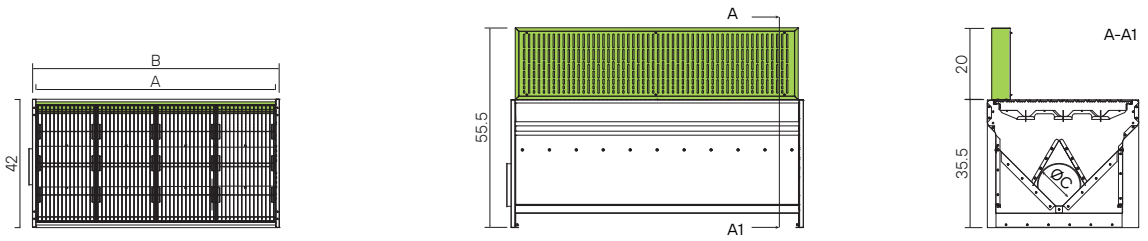


Non-suction fixed walls

# Technical features

| **Technical features** | | **Model BS plasma** | | |
|---|---|---|---|---|
| | | **1000** | **1500** | **2000** |
| Maximum flow rate | CFM | 1471.4 | 1765.7 | 2060 |
| Weight | lb | 407.9 | 557.8 | 749.6 |
| | | | **Maximum available load** | |
| Load distribution | lb/ft² | 51.2 | 51.2 | 51.2 |

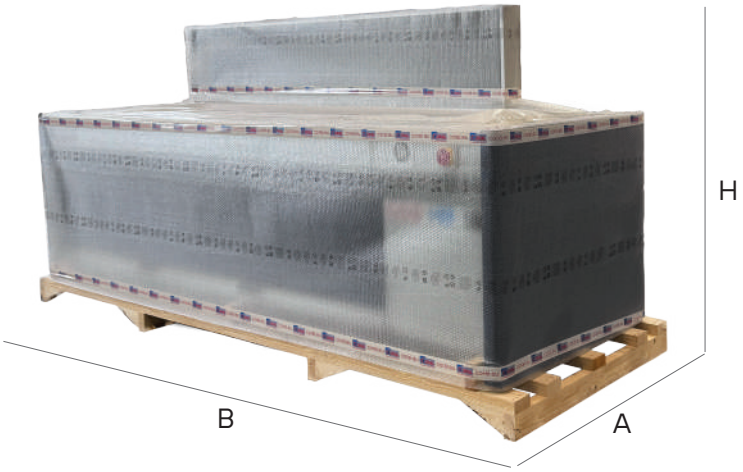
# Overall dimensions




Front extraction wall (Optional)

| **MODEL** | **DIMENSIONS** (in) | | |
|---|---|---|---|
| | **A** | **B** | **ØC** |
| BS plasma **1000** | 39.4 | 41.7 | 7.9 |
| BS plasma **1500** | 59 | 61.4 | 9.8 |
| BS plasma **2000** | 78.7 | 81.1 | 11.8 |

# Shipment packaging




| MODEL | DIMENSIONS (in) AxBxH | WEIGHT (lb) |
|---|---|---|
| Polijet DF **1500** | 47 x 89 x 60 | 937 |
| Polijet DF **2000** | 47 x 109 x 60 | 1147 |
| Polijet DF **2500** | 47 x 129 x 60 | 1400 |

| MODEL | DIMENSIONS (in) AxBxH | WEIGHT (lb) |
|---|---|---|
| Poliweld **DF 1500** | 47 x 89 x 60 | 893 |
| Poliweld **DF 2000** | 47 x 109 x 60 | 1114 |
| Poliweld **DF 2500** | 47 x 129 x 60 | 1301 |

| MODEL | DIMENSIONS (in) AxBxH | WEIGHT (lb) |
|---|---|---|
| Poliex **1500** | 46 x 89 x 41 | 397 |
| Poliex **2000** | 46 x 109 x 41 | 507 |
| Poliex **2500** | 46 x 129 x 41 | 618 |

| MODEL | BS DIMENSIONS (in) AxBxH | BS/S DIMENSIONS (in) AxBxH | WEIGHT (lb) BS | WEIGHT (lb) BS/S |
|---|---|---|---|---|
| BS \| BS/S **1000** | 46 x 54 x 1545 | 46 x 46 x 1545 | 358 | 300 |
| BS \| BS/S **1500** | 46 x 74 x 1545 | 46 x 66 x 1545 | 450 | 408 |
| BS \| BS/S **2000** | 46 x 94 x 1545 | 46 x 85 x 1545 | 530 | 485 |
| BS \| BS/S **2500** | 46 x 117 x 1545 | 46 x 105 x 1545 | 620 | 589 |

| MODEL | DIMENSIONS (in) AxBxH | WEIGHT (lb) |
|---|---|---|
| BS plasma **1000** | 46 x 89 x 41 | 397 |
| BS plasma **1500** | 46 x 109 x 41 | 507 |
| BS plasma **2000** | 46 x 129 x 41 | 618 |

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.

# Gallery
















# 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.

CORAL
Innovative Air Solutions USA

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For a cleaner future.

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