Polex™

High Performance Dust and Fume Extraction Technology

Polex™ *e-MISSION* Control™ 2.2 kW

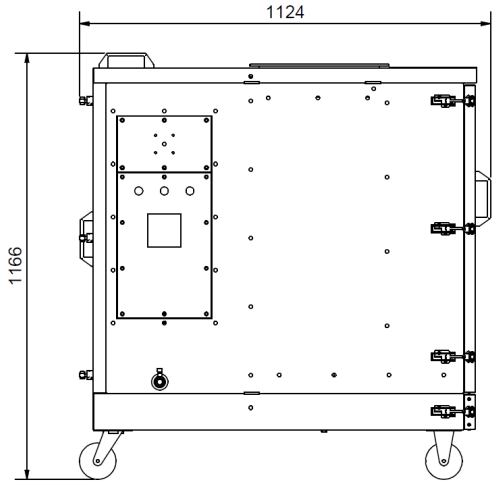
Description

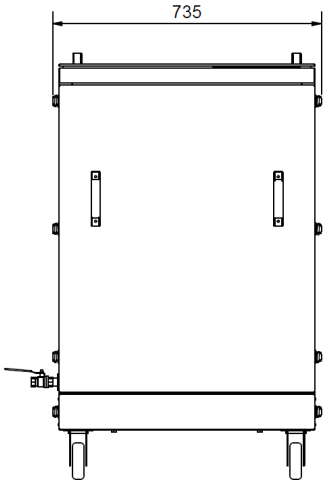
Polex has engineered the eMISSION Control™ to collect and filter Dust, Fume, Smoke and Odour. The eMISSION Control™ is a self cleaning, automatic reverse-pulse cartridge dust collector with carbon filtration and spark arresters. It has a powerful 2.2 kW motor that produces suction of up to 2200 m^3/h @ 2500 Pa . This makes the eMISSION Control™ powerful enough to run 2 fume arms simultaneously. All this in a unit that can fit through a standard doorway.

Features

- **Powerful 2.2 kW Fan**
- **Airflow up to 2500 m^3/h**
- **Automatic Reverse-Pulse Cleaning**
- **Cartridge Filters 27 m^2 Total Filter Area**
- **Carbon Filter For Odour Removal**
- **Suitable For One Or Two Extraction Arms**
- **Fits Through Standard Doorways**
- **Heavy Duty Rubber Castor Wheels**
- **Powder coated Finish**
- **Weatherproof**
- **1.2 mm Thick Folded Sheet metal Construction**
- **Easy Access Lift-Out Cartridge Filters**
- **Complies With EPA Minimum Emission Requirements**
- **Complies With WorkCover Noise Regulations**

Dimensions





Polex Environmental Engineering Pty Ltd ACN 121 129 842

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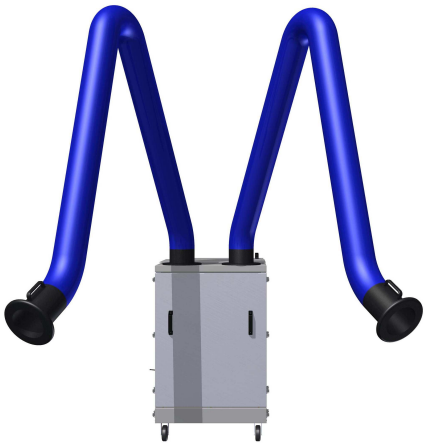
Technical Specification

Air volume	Up to 2500 m^3/h free air 1 arm 200 mm dia, 2200 m^3/h 2 arms 150 mm dia, 1200 m^3/h each
Motor power	2.2 kW
Current	4.3 A (using 3 phase motor)
Voltage	415 V
Motor Protection	IP55
Power cable	5 m length
Sound Pressure Level	75 dB(A) @ 1 m
Filter Area	27 m^2
Filter Media	Flame-Retardant Cellulose
Carbon filter	Activated carbon
Filtering Efficiency	Up to 99.9%
Dust tray	20 L
Pulse Valve	25 mm, 240 VAC
Compressed Air Consumption	1 CFM @ 90 psi
Construction	1.2 mm folded sheet metal
Wheels	Heavy duty 100 mm Castors
Finish	Powder coated
Weight	250 kg (no arms)

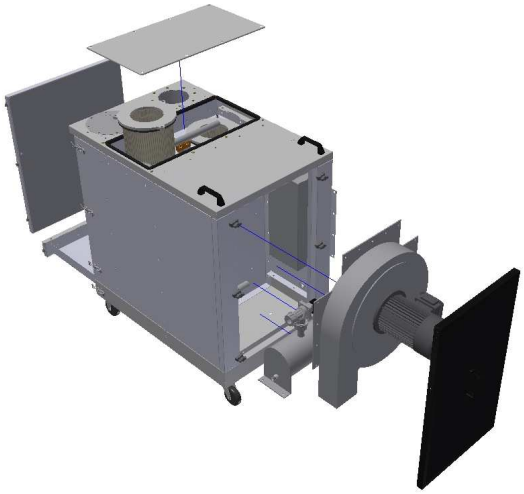
Applications

- Welding
- Grinding
- Polishing
- Cutting
- Sanding
- Soldering



Operating Principle

Polluted air enters through one or two inlets in the top casing and is directed through spark-arresters to extinguish any sparks present in the dirty airstream. A perforated screen separates the dirty incoming airstream from the cartridge filters to protect them from large or abrasive dust particles. After collision with the perforated screen, the particles are classified which allows the larger dust particles to drop out into the dust tray while the lighter and finer particles continue through to the cartridge filters. The perforated screen also allows the dust particles to pass through to the cartridge filters in a cross-flow direction which eliminates the effects of can-velocity. The cleaned air then enters the clean-air chamber where the air tank and blow pipes are positioned. Compressed air is ejected through a solenoid valve which travels through the blow pipes and into the filters. The blast of air causes the dust-cake to fall off the filters and collect in the tray below. The cleaned air is then discharged to atmosphere through an activated carbon filter for to eliminate odours. The carbon filter can also be connected to external ductwork for discharge outside of the immediate area.



Important note: Fires and dust explosions can be caused by various ignition sources including sparks, static build-up and optimum dust concentrations etc. If the dust is deemed to be explosive the dust collector should be fitted with explosion vents and explosion suppression devices. Please contact Polex to assess whether the particular dust or fume is considered to be explosive.

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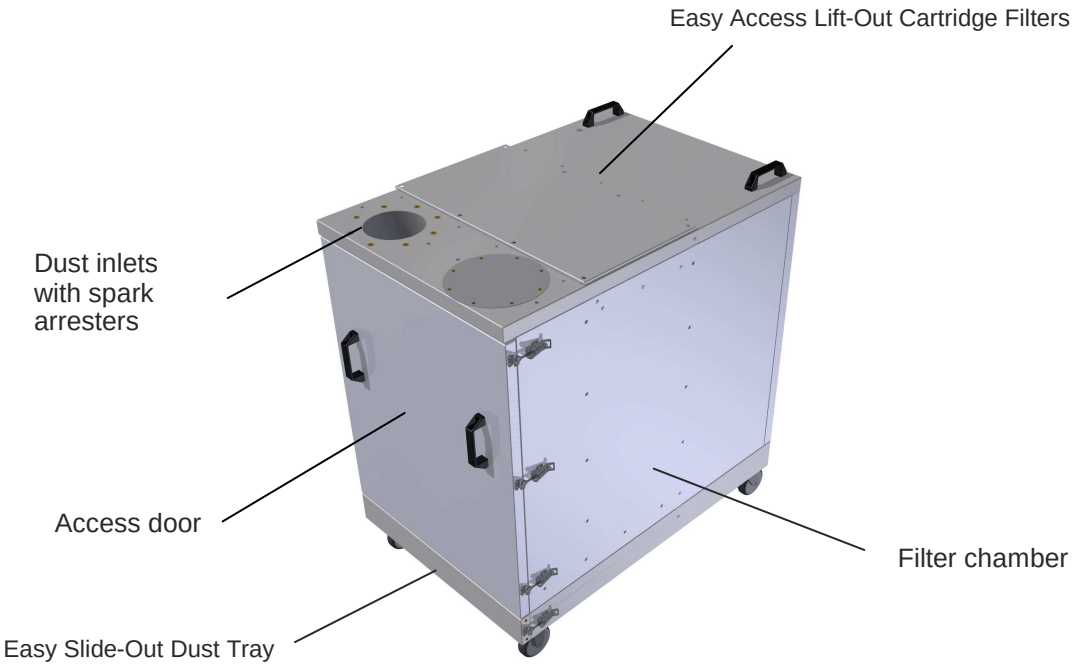

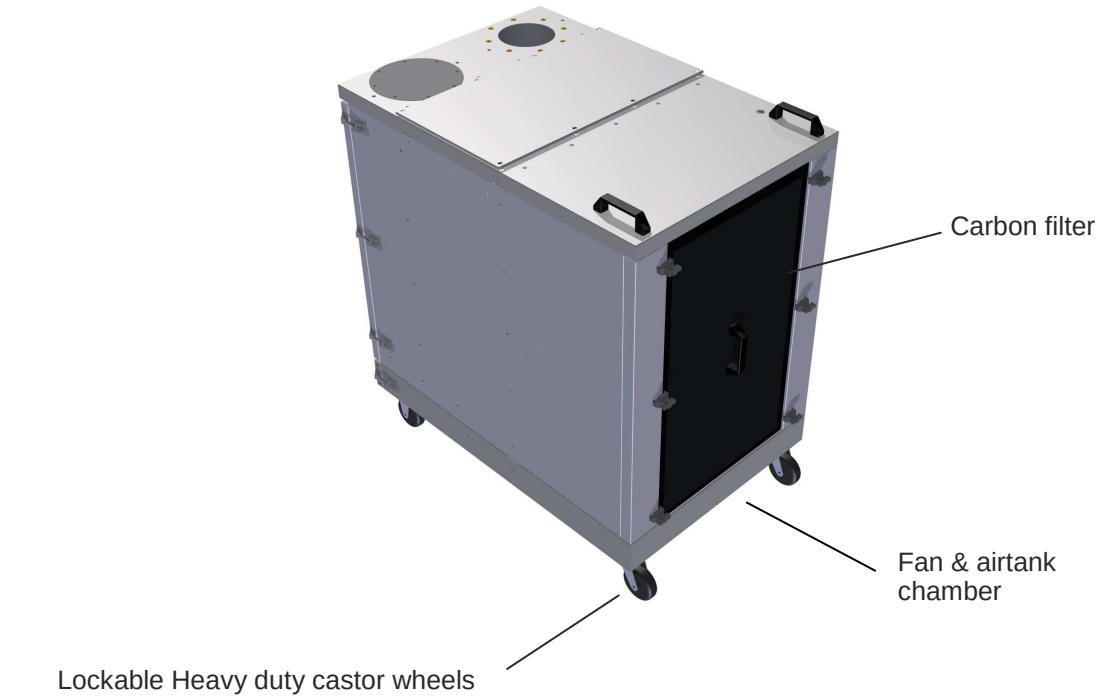

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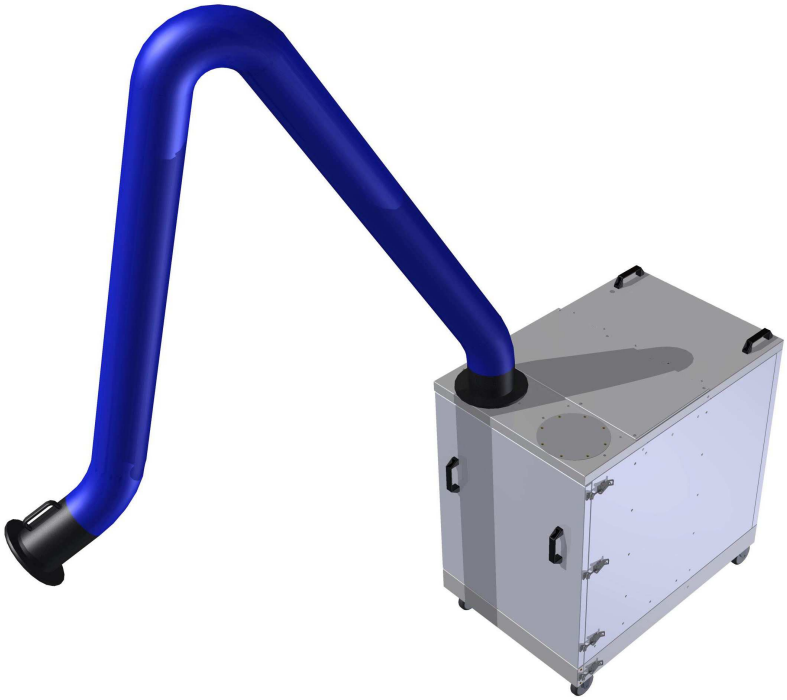
Arm options

Single Arm configuration



Double Arm configuration

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