

Polex Environmental Engineering Pty Ltd
ACN 121 129 842

High Performance Dust and Fume Extraction Technology

Description

The Polex e-MISSION Control™ Mobile Dust and Fume Extraction Unit has been designed to suit a wide range of applications. These units are ideally suited to continuous operation since the filters are continuously cleaned while in operation.

Operating Principle

Polluted air enters through one or two inlets in the top casing and is directed through a baffle and then upwards through the cartridge filters. The larger dust particles drop out into the dust tray while the lighter and finer particles continue into the cartridge filters. 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 to fall off the filters and collect in the tray below. The cleaned air is then discharged to atmosphere through an activated carbon filter, or can be connected to discharge ductwork.

Filters

Antistatic Spun Bonded Polyester (optional PTFE)

Construction & Finish

1.2 mm thick folded mild steel construction, Powder coated

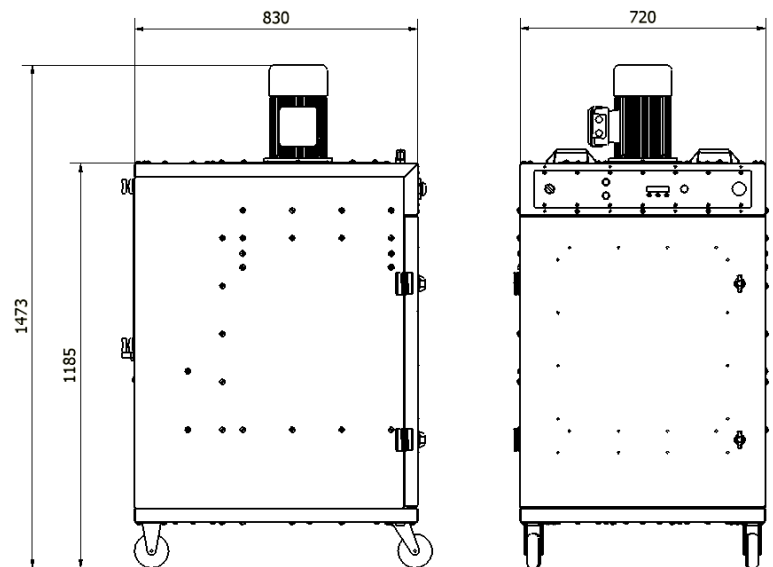
Electrical

Electric motor starter with start/stop push buttons and manual push-button for filter cleaning.



(Note: Lite version does not include programmable electronic control panel as shown in photo)

- Reverse-Pulse Cleaning
- 2.2 kW Fan
- Floor And Wall Mounting
- Carbon Filter For Odour Removal
- Cartridge Filters 20 m² Total Filter Area
- Heavy Duty Rubber Castor Wheels

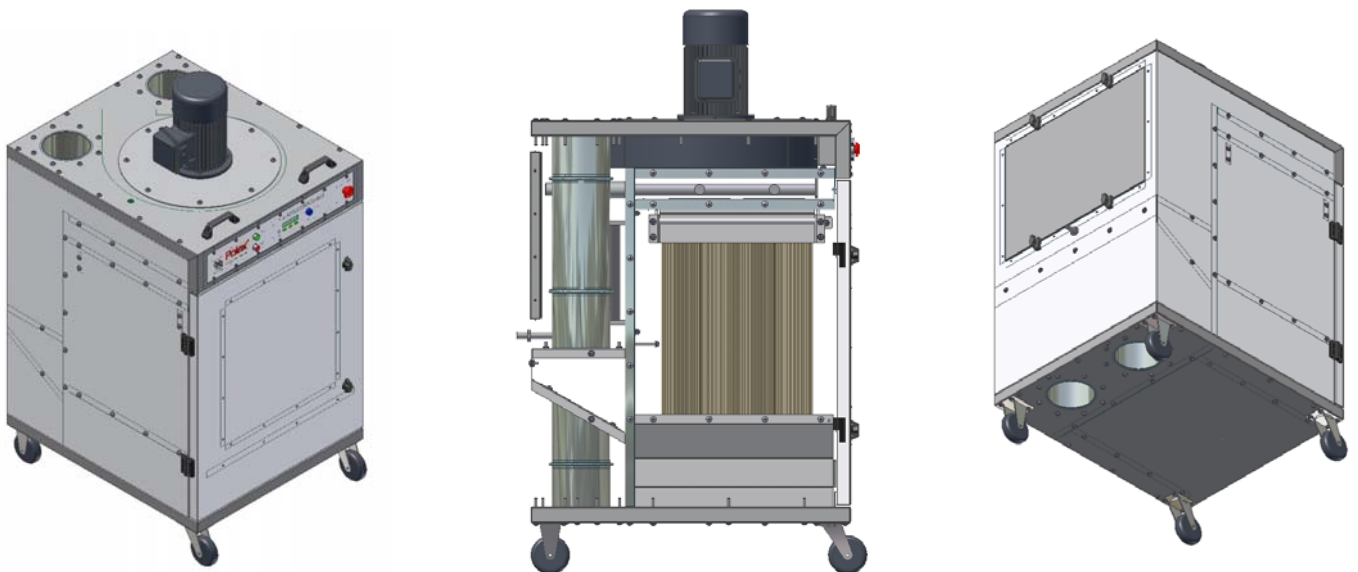


www.polex.com.au

Polex Environmental Engineering Pty Ltd
ACN 121 129 842

Technical Specification

Air volume	1500 m ³ /h (1 arm), 2400 m ³ /h (2 arms), 3000 m ³ /h (free air)
Pressure	2000 Pa max
Motor power	2.2 kW
Current	4.3 A
Voltage	415 V
Motor Protection	IP55
Power Source Provided	5 Pin Plug
Sound Pressure Level	70 dBa @ 3m
Air Velocity Through Each Arm	15 - 20 m/s
Air Velocity Through Hood	5 m/s
Filter Area	20 m ²
Filter Media	Spun Bonded Polyester, Antistatic or PTFE
Filtering Efficiency	99.9%
Pulse Valve	25 mm, 240 VAC
Compressed Air Consumption	1 CFM @ 90 psi
Construction	1.2 mm folded sheet metal
Wheels	2 x 100 mm Dia Fixed, 2 x 100 mm Dia Swivel With Brake
Finish	Powder coated
Weights	130 kg (no arms), 150 kg (1 arm), 170 kg (2 arms)



Polex Environmental Engineering Pty Ltd
ACN 121 129 842

Feature Check-List

Reverse Pulse Cleaning	✓
Spun-Bonded Polyester Cartridge Filter, PTFE	✓
Carbon Filter For Fume And Odour Removal	✓
Easy Slide-Out Tray For Cartridge Filter	✓
Easy Slide-Out Dust Tray	✓
Floor Mounted	✓
Wall Mounted	✓
Suitable For One Or Two Extraction Arms	✓
Spark Arrester In Arm	✓
2.2 kW Motor	✓
Powder coated Finish	✓
Lockable Heavy-Duty Caster Wheels	✓
Spark-Proof Construction	✓
Manual Pulse Cleaning	✓
1.2 mm Thick Folded Sheet metal Construction	✓
In-Built Compressed Air Tank For Reverse Pulse Cleaning	✓
Weatherproof	✓
Fits Through Standard Doorways	✓
Complies With WorkCover Noise Regulations	✓
Complies With EPA Minimum Emission Requirements	✓

Applications Check-List

Welding fumes and Particles	✓
Food powders *	✓
Metal Grinding Dust	✓
Chemical Fumes And Odours	✓
Spray Painting Fumes *	✓
Oil Mist *	✓
Fiberglass Dust and Fumes	✓
Soldering Fumes	✓

* Options Check-List

Filter Sleeve For Paint Filtration	✓
Helix Metal Insert For Oil Fume Filtration	✓
Single Phase Motor	✓
Stainless Steel Construction For Food Powders	✓
Washable Polypropylene Bag Filters For Food Powders	✓
Compressor	✓

Polex Environmental Engineering Pty Ltd
ACN 121 129 842

