

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

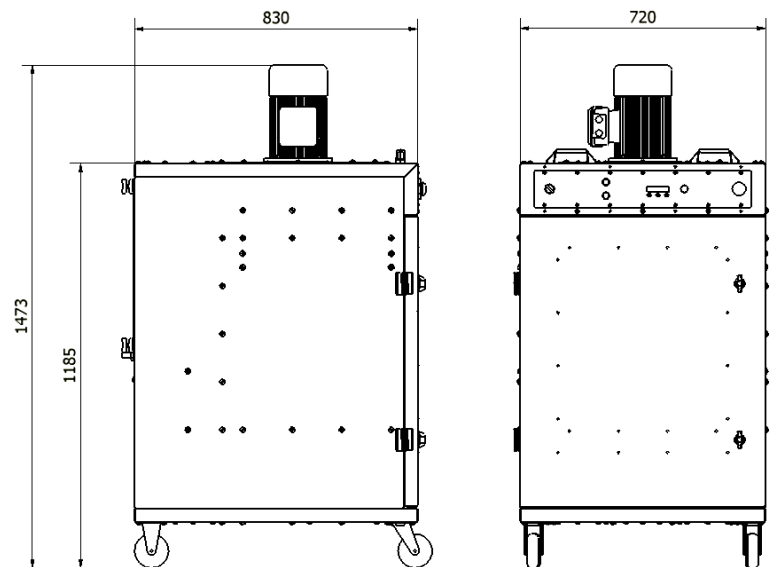
1.2 mm thick folded mild steel construction, Powder coated.

#### Electrical

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



- Reverse-Pulse Cleaning
- 2.2 kW Fan
- Floor And Wall Mounting
- Carbon Filter For Odour Removal
- Cartridge Filters 20 m<sup>2</sup> Total Filter Area
- Heavy Duty Rubber Castor Wheels
- Provision For 2 Fume Arms
- Airflow 1500 m<sup>3</sup>/h To 2400 m<sup>3</sup>/h



[www.polex.com.au](http://www.polex.com.au)

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**Technical Specification**

Air volume	1500 m <sup>3</sup> /h (1 arm), 2400 m <sup>3</sup> /h (2 arms), 3000 m <sup>3</sup> /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
Filter Area	20 m <sup>2</sup>
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)

