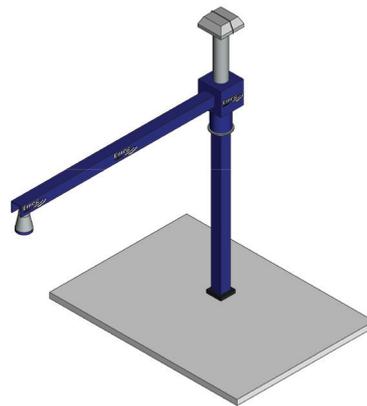
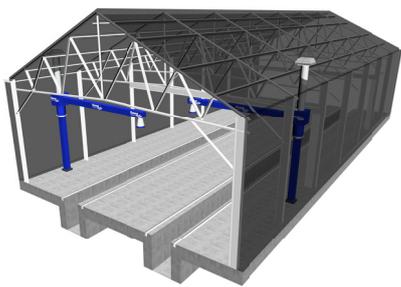


Intelligent Exhaust Fume Extraction Arm System

Introducing the Emeg e-fume™

The versatile and efficient clean depot ventilation solution to remove harmful diesel exhaust fumes from engines at the source, improve the working environment and safeguard the workforce from unnecessary inhalation.

Taking guidance from 'HSG258 (Third Edition) 2017: Controlling Airborne Contaminants at Work'; and 'HSG187 (Third Edition) 2012: Control of Diesel Engine Exhaust Emissions in the Workplace', Emeg have developed the specialist **e-fume™** fully adjustable local extract ventilation (LEV) system to improve depot air quality.



Systems can be positioned accordingly to suit the clients' needs and allow for universal coverage for all rolling stock in the depot, meaning that engines will not be limited on where they can be stabled and air quality will not be compromised.

Depot Protection: e-fume™ systems can be fully integrated and interfaced with Emeg's safeNet™ Depot Protection System ensuring a safe depot working environment is maintained.

depotCONNECT



MAX TEMPERATURE



WORKFORCE SAFETY



HIGH EXTRACTION RATE



REDUCED ENERGY USAGE

Features & Benefits

- ✦ Diesel locomotive exhaust fume extract system.
- ✦ Removes harmful fumes at the source.
- ✦ HSG258 & HSG187 compliant.
- ✦ Extremely versatile - three axes of movement for maximum road coverage.
- ✦ Manufactured from low toxicity composite moulded GRP to BS EN 45545 HL3 standards.
- ✦ Lightweight GRP construction - suitable in OLE environments.
- ✦ Bespoke wall or column mounted solutions available - no structural dependency.
- ✦ Simple and efficient hand-held controller.
- ✦ Fast and effective operation.
- ✦ Efficient, low maintenance and compact design.
- ✦ Double hood option available for twin exhaust.

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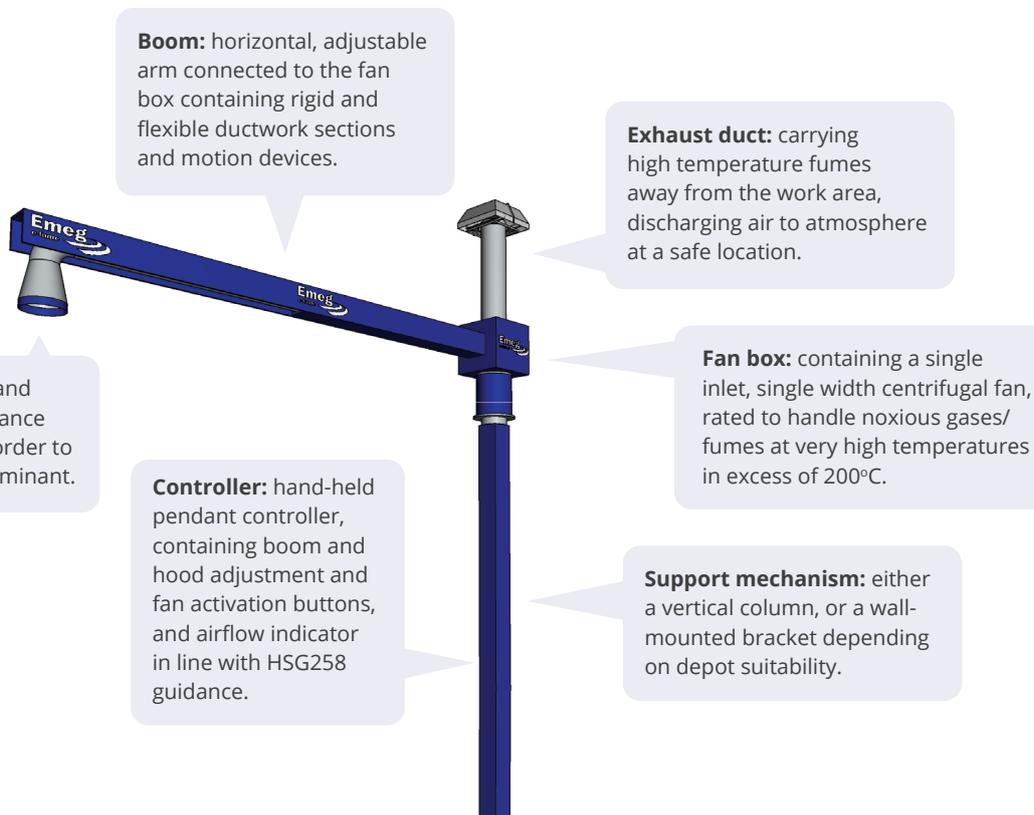
Intelligent Exhaust Fume Extraction Arm System

Why e-fume™?

The purpose of a local exhaust ventilation (LEV) type system is to contain, capture and remove the target contaminant. In doing so, the contaminant will be drawn away from the operative zone. If the harmful particles are not removed at the source, they will dissipate into the surrounding air and settle in the depot environment.

e-fume's™ bespoke, one-of-a-kind system removes diesel fumes at the engine exhaust locations before they can escape into the environment; therefore, improving the working environment and safeguarding the workforce from fume inhalation.

Air contamination due to diesel fumes within depots is a big industry problem. The World Health Organisation now classifies diesel engine exhaust emissions as a 'class one carcinogenic agent', which puts it in the same category as asbestos, mustard gas and tobacco for causing respiratory system-related cancer.



Boom: horizontal, adjustable arm connected to the fan box containing rigid and flexible ductwork sections and motion devices.

Exhaust duct: carrying high temperature fumes away from the work area, discharging air to atmosphere at a safe location.

Extract hood: hood depth and face velocity sized in accordance with HSG requirements, in order to efficiently contain the contaminant.

Fan box: containing a single inlet, single width centrifugal fan, rated to handle noxious gases/fumes at very high temperatures in excess of 200°C.

Controller: hand-held pendant controller, containing boom and hood adjustment and fan activation buttons, and airflow indicator in line with HSG258 guidance.

Support mechanism: either a vertical column, or a wall-mounted bracket depending on depot suitability.

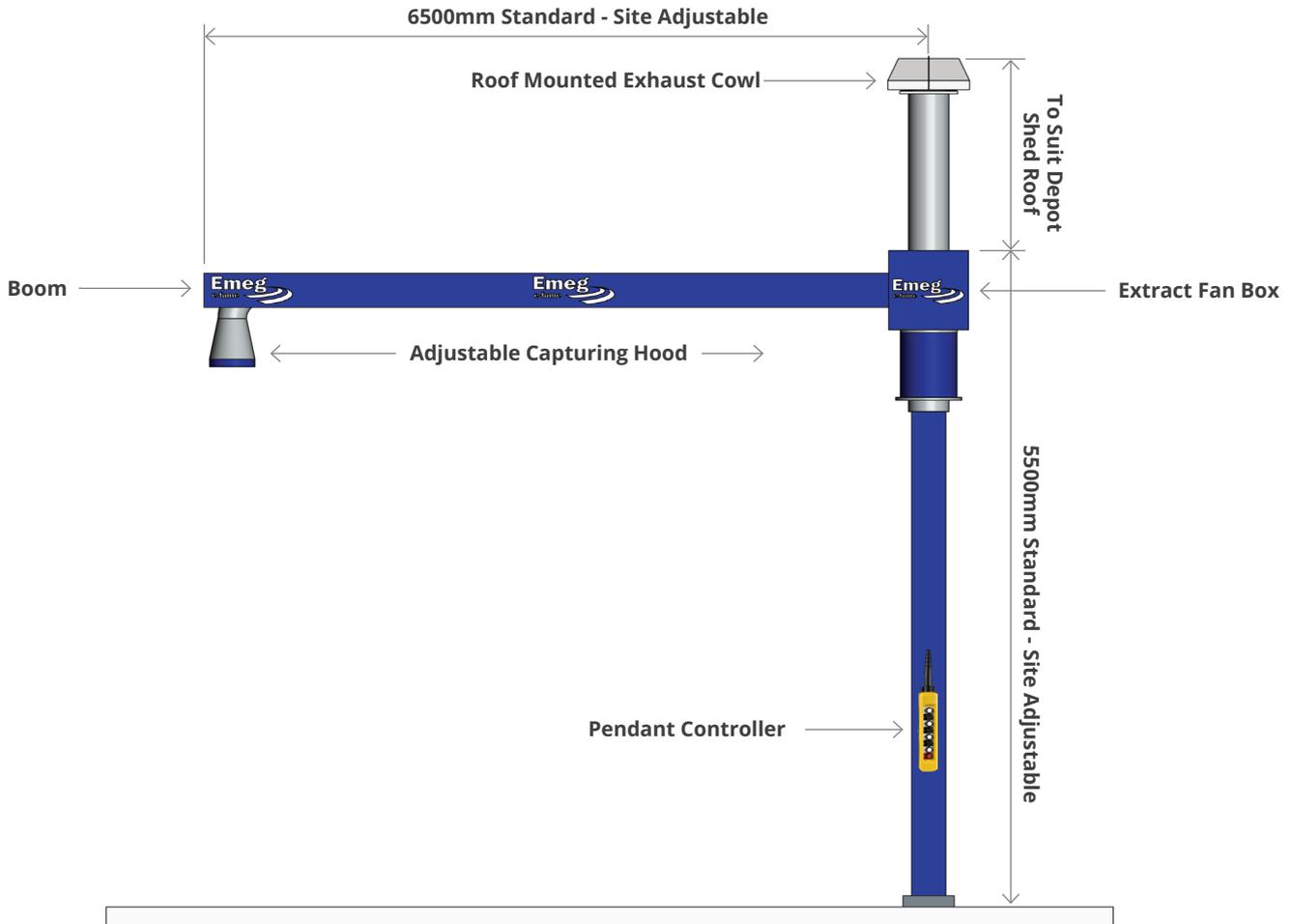
Swing
The fan box is rotated on a slewing ring and gearbox configuration through a possible range of 0-180°, sweeping the boom across the depot and into position, providing smooth movement and minimising vibration.

Slide
The extract hood is positioned laterally along the boom, powered by an efficient, integral belt-driven linear transmission and positioning system, providing optimum levels of accuracy, precision and speed.

Drop
The vertical drop (and raise) motion of the hood is powered by a high-performance sealed gearbox screw jack arrangement, complete with integral pivot bearings for high levels of control, support and stability.

Intelligent Exhaust Fume Extraction Arm System

Dimensions



Technical Data

Mounting Options	Exhaust Options	Fan Speed (rpm)	Voltage (V)	Fan Volume (m3/s)	Dimensions (mm)		
					H	W	D
Wall mounted or free-standing	Single exhaust point, or combined header	1400	400	>1.0	Site Specific	6500	1150