

Smoke Shaft Extract Unit.

EV-EU

A skid-mounted unit comprising fans, dampers, and controls designed specifically for smoke shaft applications.



COMPACT

Factory assembled and tested unit that reduces plant space requirements on roof and drastically reduces installation and commissioning period.

COMPLIANT

Unit compliant with all relevant standards:

- Fans and Inverters: BS EN 12101-3 F300
- Controls: BS EN 61439-2
- Ductwork: BS476 Pt 24, EN1366 Pt 1
- Automatic Transfer Switch BS8519 with maintenance by-pass.

VERIFIED SOFTWARE

Third party tested, customisable open protocol software with built-in low speed daily ventilation mode.

REMOTE MONITORING AND TESTING

The system includes Eyeball monitoring and remote testing facility to ensure continued protection of buildings post-installation.

SUITABLE FOR:



FANS

Extract fans are axial high temperature fans, manufactured from hot dipped galvanized steel sheets. All fans are tested to the latest internationally recognised standard ISO5801 Part 1, installation category D for aerodynamic performance and BS848 Part 2 (1985) for acoustic performance. The fans and motors are rated at 300°C for 2 hours and are fully tested and certified to the requirements of EN12101-3. The fans are mounted in series onto a pre-assembled module using anti-vibration mounts. The fan assembly will contain a weatherproof discharge, a flexible connector, a gravity shut off damper, and a fire-rated galvanised steel plenum section connected to the builder's work roof up-stand above the extract shaft. The fan assembly will be mounted onto skids fitted with adjustable feet for mounting on a suitably prepared roof area.

CONTROL SYSTEM

The main system control panel is also located on the skid and pre-wired to the fans and dampers. An integral motor control centre provides the control and monitoring of the extract fans, dampers, doors and stairwell AOVs through the communications network. Operation of the fans is to be monitored by current sensing so that in the event of fan failure the standby fan will be automatically started. All extract fans are inverter-controlled by the extract fan control panel. This is done in order to reduce starting currents and allow for adjustment of volume flow rates so that the required extract rates are achieved at the point of extract within the corridors. In fire conditions inverters operate in a run to destruction mode.

AUTOMATIC TRANSFER SWITCH

Auto changeover of mains and standby power supplies is provided by an optional automatic transfer switch (ATS) module mounted on the common plant skid where required. The ATS is fully compliant to BS EN 8519:2010 with a bypass feature to maintain a fully operational system during maintenance work.

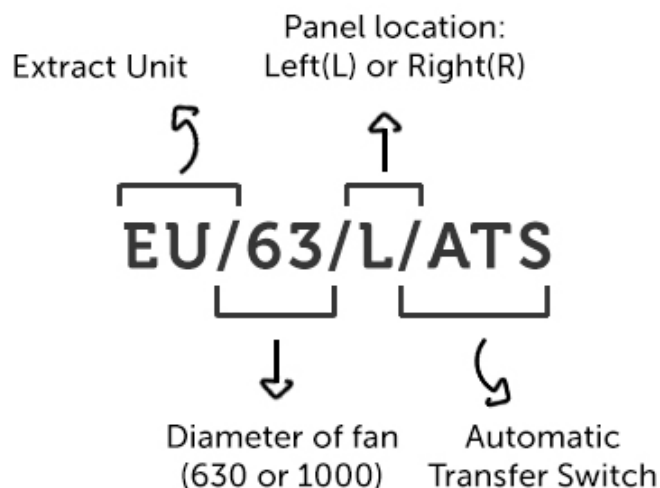
KEY SPECIFICATIONS

	EV/EU/63	EV/EU/100
Air Flow Rate	Run & Standby - 6.0m ³ /s from lobby	Run & Standby - 6.0m ³ /s from lobby
Pressure	300Pa	375Pa
Footprint	2050 L x 1250 W (mm)	2332 L x 1670 W (mm)
Weight	500kg	800kg
Power Supply	400V 50Hz 3P&N 28A	400V 50Hz 3P&N 38A
Nominal Running Current	27.5A	36.5A
Finish	Galvanised Steel	Galvanised Steel
Sound Power Level (Fire Mode)	Inlet - 110 dB Outlet - 111 dB Breakout - 97 dB	Inlet - 112 dB Outlet - 114 dB Breakout - 102 dB
Sound Power Level (Daily Ventilation)	Inlet - 80 dB Outlet - 82 dB Breakout - 72 dB	Inlet - 90 dB Outlet - 92 dB Breakout - 83 dB
IP Rating of Control Panel	IP55	IP55
Conformity	Fans: EN 12101-3 Controls: BS EN 12101-10 Ductwork: BS EN 12101-7	Fans: EN 12101-3 Controls: BS EN 12101-10 Ductwork: BS EN 12101-7

UNDERSTANDING THE SYSTEM CODE

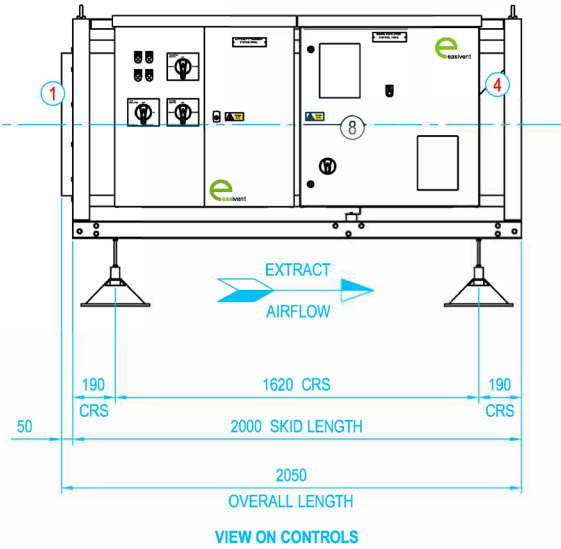
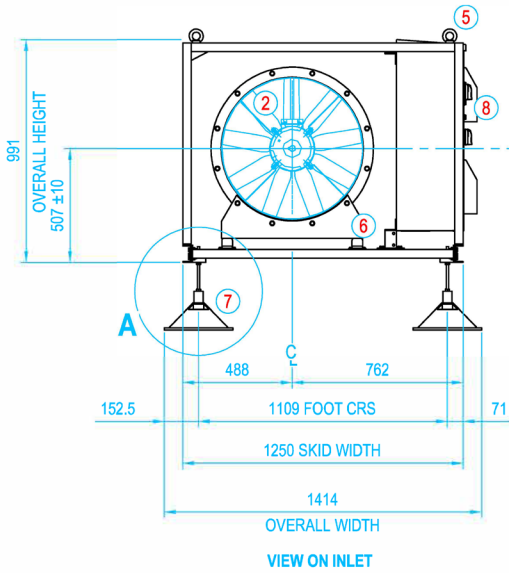
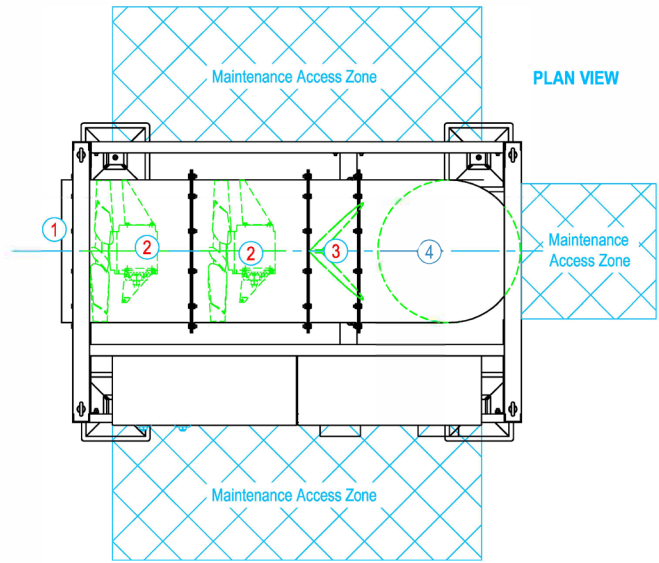
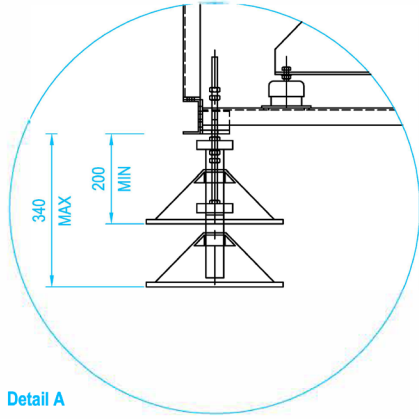
Each system code holds information about the system's technical specification within its symbols.

For a detailed explanation, refer to the image below.



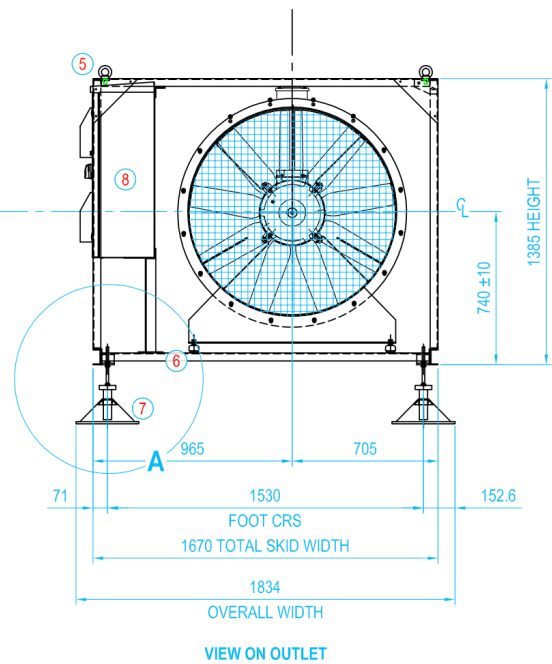
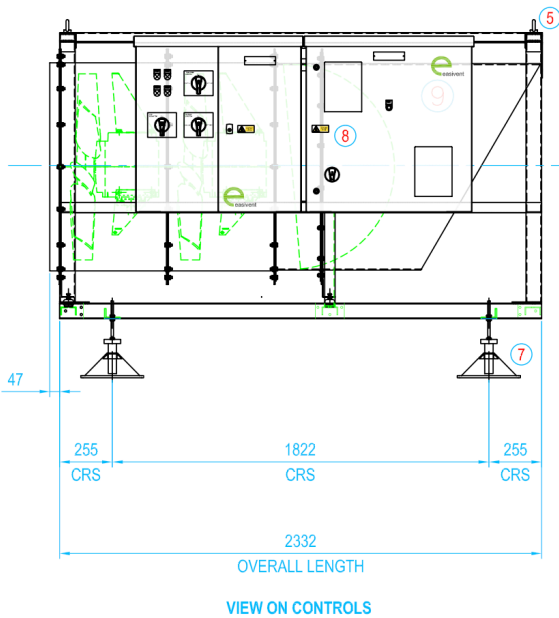
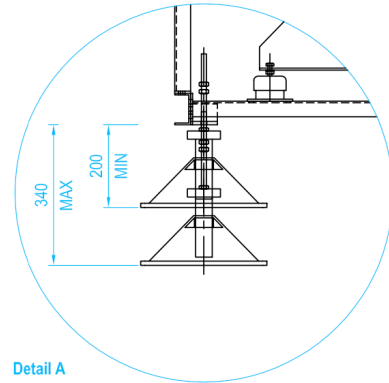
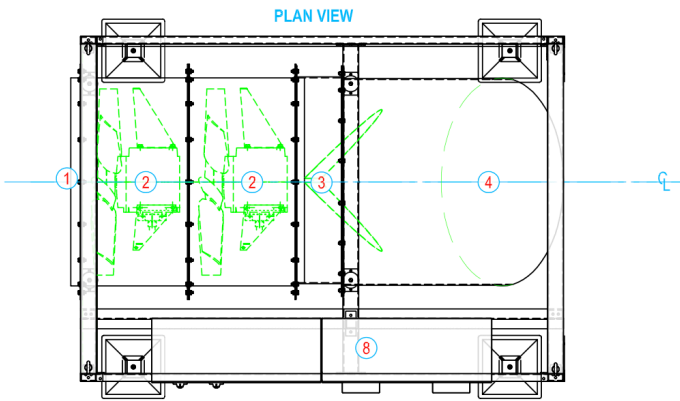
TECHNICAL DRAWINGS

6300 FAN SKID



TECHNICAL DRAWINGS

1000Ø FAN SKID



ATTENTION: Under the Construction Products Regulations (CPR) it is a legal requirement to use only certified products for smoke ventilation. It is the responsibility of the installer to ensure installations meet the relevant standards.

Group SCS reserves the right to alter the specification of its products from time to time without notice. Although every effort has been made to ensure the accuracy of the information contained in this document it is not warranted or represented by Group SCS to be a complete and up-to-date description. For further information visit www.groupscs.co.uk