

IMPORTANT USER GUIDANCE **VS 1000 / 3000 CENTRIFUGAL FANS** **FOR VENTILATION AND DUST** **EXTRACTION**

READ ALL THE INSTRUCTIONS BEFORE USING THIS EQUIPMENT

General Specification: mobile ventilation units for blowing and extracting air, fumes and airborne dust. These units can be coupled with options ranging from capture hoods and filter socks to entrap coarse dust, through to multi-stage filtration units which capture very fine dust particles to HEPA grade.

The VS3000 fan is trolley mounted for ease of movement around site, and a lifting bale allows the complete unit to be craned if required. The smaller VS1000 fan is mounted in a tubular metal frame for protection, and may be used in a vertical or horizontal orientation.

Installation / Operating Instructions:

Site the ventilation fan on firm level ground and ensure it is secure and stable. Fans are supplied complete with a power lead which should be plugged into a suitable 110v power supply (16A for the VS1000, 32A for VS3000 - see table below).

Connect inlet / discharge ducting and any filtration components, ensuring these are securely attached before switching the fan on. Turn on the electrical supply – the VS 1000 fan will start immediately. The VS3000 fan requires the rotary isolator to be turned to “I” and the green “start” button to be depressed. Fans will reach their full running speed within approx. 15 seconds – when viewed from the inlet duct the fan will be rotating in a clockwise direction.

To stop the VS1000 fan switch off the power supply at source. To stop the VS3000 press the red “Off” button, and turn the rotary isolator to “0”.

When you have completely finished with the equipment disconnect the electrical supply; ensure residual dust is removed before returning fans, filter housings & ducting to the supplier - either by vacuuming or washing / wiping the equipment down.



CAUTIONS

Beware airborne matter in the discharge plume of ventilators – always wear eye protection !

Do not allow sparks, embers or naked flame to be drawn through the equipment – they are a fire risk !

Always keep hands away from moving parts, and beware the inlet suction side of ventilators !

Filters:

A variety of filtration options are available. **Filter Socks** can be fitted to the fan discharge (see image above and below left). When full the sock may be emptied and re-used, or simply disposed of and replaced with a new one. Capture hoods are also available for hire which can be coupled to the flexible ducting on the inlet (suction) side of the fan.



Filter Housings are available for hire which accommodate user-changeable filters from EU3 to EU14 grade that are easily changed on site (images above centre and right). Users should use PPE / RPE appropriate to the dust hazard they are dealing with, and spent filters must be disposed of in accordance with regulations applicable to the waste generated. Please Note: at the end of the hire the equipment must be returned cleaned, and free from hazardous residue(s).

Envirogard Hires

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Setting Hire Standards



Manchester 01613 208 587
Ashford 01303 814 930
Tamworth 01827 304 955
Barnsley 01226 740 900

Technical Information – VS1000

Inlet Duct Diameter: 200mm (8")

Electrical Supply: 110v, 1 phase 50Hz

Dimensions: L640 x W430 x H540mm

Outlet Duct Diameter: 200mm (8")

Appliance Lead: 110v, 16 Amp

Weight 25 kg

Airflow: 1700 m3/Hr (1000 cfm)

Running Current: 12 Amps

Sound Level: 72.8 – 81.7 dBA @ 3m

Technical Information – VS 3000

Inlet Duct Diameter: 300mm (12")

Electrical Supply: 110v, 1 phase 50Hz

Dimensions: L 885 x W760 x H1060mm

Outlet Duct Diameter: 300mm (12")

Appliance Lead: 110v, 32 Amp

Weight 120 kg

Airflow: 5000 m3/Hr (3000 cfm)

Start/Running Current: 55 / 17 Amp

Sound Level: 74.1 – 78.5 dBA @ 3m

Fault Diagnosis:

Fan does not turn on: Check mains power is connected. Check rotary isolator is "ON" & green button pressed (VS 3000 only) an runs for a short time and then stops: Check transformer is rated for the current load. Check extension cables are at least 2.5 mm2 cross section for VS1000, at least 4.00 mm2 for VS3000. Check extension cables are not longer than 30 metres.

Low Airflow: Check fan inlet and discharge is not obstructed. Check ducting is not obstructed or "kinked" and length is not excessive (for lengths over 40 metres additional fans are recommended). Check if filter socks / bags / panels are blocked.

Excessive vibration / noise from fan: Check for accumulation of dust on fan impeller or if foreign body has been drawn into fan. Out of balance fan rotor / drive (refer to supplier).

If you are unable to identify the cause of a problem - stop using the equipment & ask the supplying hire depot for advice.

WARNINGS

THE FOLLOWING MUST BE OBSERVED AT ALL TIMES

This equipment should not be used in areas containing flammable or explosive gases, vapours, or dust. We do not permit this equipment to be used offshore, nor used on offshore vessels or structures. Beware inlet suction and outlet airstream. Airborne dusts and fumes can be dangerous – wear PPE including RPE protection appropriate to your task.

Do not operate this equipment without fan guards and drive guards. Do not attempt to open / dismantle / modify hire equipment – if in doubt ask the supplying depot.

Users are responsible for assessing their dust hazard, for ensuring that soiled filters are changed without risk of contamination of operatives or others, and for removing used filters from the equipment prior to its return to the supplier. Spent filters must be disposed of in accordance with any regulations applicable to the dust / material being collected.

FOR MORE INFORMATION ABOUT OUR RANGE OF AIRMOVEMENT & SPECIALIST AIR FILTRATION EQUIPMENT PLEASE SEE OUR WEBSITE

www.envirogard.co.uk OR CONTACT OUR HIRE DEPOTS.



Aircleaner



Ventilation



Portable Dust Capture



Fume Extraction



Axial Fan



HEPA Filtration



Ducting



Dust Suppression



Cluster Jet

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