IMPORTANT USER GUIDANCE VENTSAFE AXIAL FANS "SPITZNA" & "CLUSTAJET" FOR VENTILATION AND FUME EXTRACTION APPLICATIONS

READ ALL THE INSTRUCTIONS BEFORE USE

<u>General Specification</u>: portable ventilators suitable for moving large volumes of air through ductwork, for cooling, fume removal, and general blowing and exhausting of air. For applications requiring transport of air and fumes over long distances several ventilators can be connected in series by flexible ducting connected to either end of the machines.

The spacing between ventilators in series will vary according to the straightness of the ducting, number of bends, smoothness of the bore etc. but as a general guide ventilators in series should be placed at intervals of 25 – 40 metres.

Spitzna fans require 110v power supply (0.37kW) and utilise a direct drive motor turning a fan rotor to move the air. In contrast Clustajets ventilators have NO fan blade and NO moving parts; they utilise compressed air which is released through a coander ring-jet – the colander effect draws air through the ventilator and forces it out the other side, inducing a large volume of air movement. Because the Clustajet does not require electricity it is particularly suitable for use in damp and wet locations.

Both ventilators can be connected to 305mm dia. (12") ducting if required.

Spitzna: Installation / Operating Instructions:

Site the fan where it is secure and stable; if suspending the ventilator above the ground ensure you use two or more independent securing points. The ventilator is supplied complete with a 110v power lead with 16 amp plug which should be connected to a suitable 110v power supply (one which can deliver 0.37kW, 3.4 amps @110v).

Check the fan inlet grill is secure; connect any inlet / discharge ducting required, before turning on rotary isolator to "ON". The fan will attain full speed within 15 seconds. When you have completely finished with the equipment turn off the rotary isolator & disconnect the electrical supply. Ensure any residual dust is removed before returning the fan and ducting to the supplier - either by vacuuming or washing / wiping the equipment down.

Clustajet: Installation / Operating Instructions:

Site the ventilator where it is secure and stable; if suspending the ventilator above the ground ensure you use two or more independent securing points. Connect any inlet / discharge ducting required.

Couple the ventilator to a compressed air source capable of delivering 190 SCFM (5375 SLPM) of compressed air at 4 bar [if you are using the Clustajet to deliver atmospheric air from an uncontaminated source into a working area you should ensure that the compressed air source is also "clean" and of good quality]. Pressurise the compressed air supply line and then slowly open the inlet valve to induce air flow through the Clustajet; you can regulate the performance of the Clustajet using thisinlet valve. The Clustajet works most efficiently at compressed air supply pressures between 1.6 bar and 4.0 bar, but can operate with a supply pressure up to 10 bar.

When you have completely finished with the equipment turn off the compressed air supply and allow the pressure in the lines and Clustajet to dissipate. Ensure any residual dust is removed before returning the fan and ducting to the supplier - either by vacuuming or washing / wiping the equipment down.

Note: PPE including RPE may be required when cleaning equipment and ducting, depending on the type of dust handled.

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

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



Top: Clustajet Compressed-Air Powered Ventilator / Extractor.



Middle: Spitzna 110v Ventilator / Extractor Below: Flexible Ducting



Technical Information - Spitzna

Inlet Duct Diameter: 305mm (12") Outlet Duct Diameter: 305mm (12") Airflow: 3700 m3/Hr (2100 cfm)

Electrical Supply: 110v, 1 phase 50Hz Appliance Lead: 110v, 16 Amp **Running Current: 3.4 Amps**

Dimensions: L355 x W470 x H480 mm Sound Level: 72 - 76 dBA @ 3m Weight 21kg

Technical Information – Clustajet 1250

Inlet Duct Diameter: 305mm (12") Outlet Duct Diameter: 305m (12") Airflow: 5270 m3/Hr (3100 cfm)

Compressed Air Supply: 4 bar Comp'd Air Inlet Hose: 25mm (1") Air Usage: 190 SCFM (323 M3/hr)

Dimensions: L508 x W305 x H406 mm Weight 14 kg Sound Level: 76 - 79 dBA @ 3m

Fault Diagnosis:

Ventilator does not turn on:

Spitzna Clustaiet

Check 110v mains power is connected. Check compressed air line is pressurised. Check rotary isolator is "on". Ensure delivery pressure is at least 1.6 bar.

Ventilator runs for a short time and then stops:

Spitzna

Check transformer is rated for the current load. Check extension cables are not longer than 30 metres.

Low Airflow:

Spitzna check any ducting is not obstructed or "kinked".

Check ventilator inlet & discharge is not obstructed. Check ducting length does not exceed 40 metres.

For long ducting runs use extra ventilators in-line.

Excessive vibration / noise from ventilator:

Spitzna

Check for accumulation of dust on fan impeller.

Check if foreign body has been drawn into fan case.

Clustajet

Ensure compressor is rated for 190 SCFM or more. Ensure compressed air supply is largely oil free.

Clustajet

Check any ducting is not obstructed or "kinked". Check ventilator inlet & discharge is not obstructed. Check ducting length does not exceed 25 metres. For long ducting runs use extra ventilators in-line.

Clustajet

Check Ringjets are free of foreign debris.

Coander jets may need re-setting (refer to supplier).

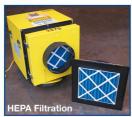
WARNINGs THE FOLLOWING MUST BE OBSERVED AT ALL TIMES

This equipment should not be used in areas containing explosive gases, vapours, or explosive dusts. We do not permit this equipment to be used offshore, nor used on offshore vessels or structures. Compressed air can be dangerous, as can dusts; wear PPE including RPE protection where necessary. Do not attempt to open / dismantle hire equipment - if in doubt ask the supplying depot.

FOR MORE INFORMATION ABOUT OUR RANGE OF SPECIALIST AIR FILTRATION AND VACUUM **EQUIPMENT PLEASE SEE OUR WEBSITE www.envirogard.co.uk OR CONTACT OUR HIRE DEPOTS**





















Manchester **Ashford Tamworth Barnsley Bristol**

01613 208 587 email: manchesterdepot@envirogard.co.uk 01303 814 930 email: ashforddepot@envirogard.co.uk 01827 304 955 email: tamworthdepot@envirogard.co.uk 01226 740 900 email: barnsleydepot@envirogard.co.uk

01179 374 551 email: bristoldepot@envirogard.co.uk