

IMPORTANT USER GUIDANCE **AXIAL FAN AIRMOVER FOR** **VENTILATION AND FUME** **EXTRACTION APPLICATIONS**

READ ALL THE INSTRUCTIONS BEFORE USE



Above: Vortex 110v Axial Fan
Below: DAF3000 240v Axial Fan



General Specification: portable axial fan ventilators for cooling, fume removal, general blowing and exhausting of air plus – when coupled with optional filters (see images above & below right) for capture of light airborne dusts.

These ventilators are connectable in series with flexible ducting to move air long distances. The spacing between ventilators will vary according to the straightness of the ducting, number of bends and smoothness of the ducting - but as a general guide ventilators in series should be placed at intervals every 30 to 40 metres.

These ventilators are available in both 110v and 240v versions and connect to 305mm diameter ducting which is available to hire.

Installation / Operating Instructions:

Site the ventilator where it is secure, stable and protected from water. Check the power supply cable and plug; 110v ventilators are supplied complete with 110v power lead with 16A plug. 240v ventilators are equipped with a 13A plug and should be connected to an RCD protected supply. These ventilators draw 0.75kW while in operation.

Check the ventilator inlet / outlet protective grill is secure; connect any ducting and / or filtration required before turning the ventilator "ON". Keep clear of ventilator inlet and outlet when turning fan on and during operation.

The fan will attain its full speed within 15 seconds. When you have completely finished with the equipment turn the ventilator switch "OFF" and disconnect the electrical supply. Ensure any residual dust is removed before returning the equipment 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 !

Technical Information – 110v Vortex Ventilator

In / Out Duct Diameter: 305mm (12")

Static Pressure: 795 Pa

Nominal Airflow: 3300 m3/Hr

Electrical Supply: 110v, 1 phase 50Hz

Appliance Lead: 110v, 16 Amp

Running Current: 6.9 Amps

Dimensions: L450 x W360 x H470 mm

Weight 15kg; IP Unclassified

Sound Level: 74dB(A) @ 3m

Technical Information – 240v DAF 3000 Ventilator

In / Out Duct Diameter: 305mm (12")

Static Pressure: 650 Pa

Airflow: 3000 m3/Hr

Electrical Supply: 240v, 1 phase 50Hz

Appliance Lead: 240v, 13A RCD

Running Current: 3.1 Amps

Dimensions: L465 x W360 x H490 mm

Weight 14 kg; IP Class 44

Sound Level: 74dB(A) @ 3m

Fault Diagnosis:

Ventilator does not turn on: Check electrical power is connected, switch is "ON", check cable and plug for damage.

Ventilator runs for a short time and then stops: Check whether inlet / outlet of fan is obstructed ? Are flexible ductings obstructed ? Is ducting run too long? If using filter systems – are filters blocked / dirty ? If using a transformer or generator - is this adequate for the electrical load ?

Low Airflow: Check ducting is not obstructed or "kinked". Check ventilator inlet / outlet grill is not obstructed. Check ducting length does not exceed 40 metres - for long ducting runs use extra ventilators in-line. Replace in-line filter socks / bags / panels.

Excessive vibration or noise from ventilator: Is there accumulated dust on fan impeller or foreign objects inside the fan casing ?

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

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. Airborne dusts & fumes can be dangerous - wear PPE including RPE protection appropriate to your task.

Do not attempt to open / dismantle / modify 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



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