

**Vent-Axia®**

36062

## **CENTRIF 170 & 250**

**CENTRIFUGAL EXTRACTOR FAN - Installation and operating instructions**

PLEASE READ CAREFULLY BEFORE INSTALLATION AND LEAVE WITH THE END USER

**VENTILATEUR EXTRACTEUR CENTRIFUGE - Instructions d'installation et d'utilisation**

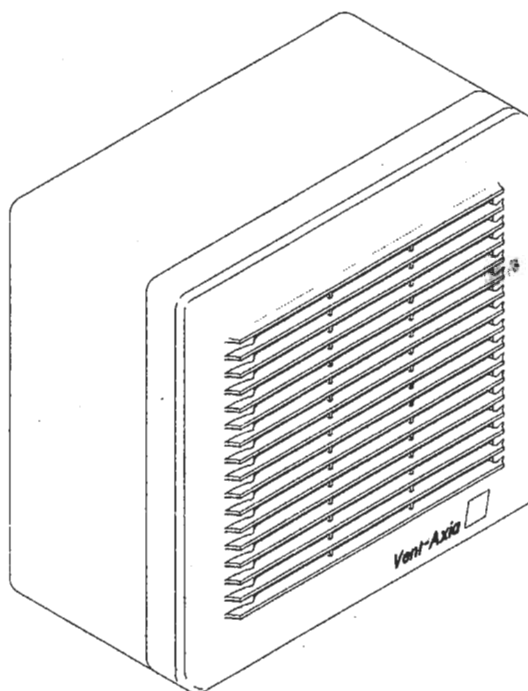
VEUILLEZ LIRE ATTENTIVEMENT LES PRÉSENTES INSTRUCTIONS AVANT L'INSTALLATION ET LES LAISSER À LA DISPOSITION DE L'UTILISATEUR FINAL.

**ZENTRIFUGAL-SAUGLÜFTER - Einbau- und AnschluSSanleitung**

BITTE VOR DER INSTALLATION AUFMERKSAM LESEN UND DEM ENDKUNDEN AUSHÄNDIGEN

**CENTRIFUGALE LUCHTVERVERSER - Installatie- en bedieningsinstructies**

LEES ALLE INSTRUCTIES GRONDIG DOOR VOORDAT U MET DE INSTALLATIE BEGINT EN LAAT DEZE IN HET BEZIT VAN DE EINDGEBRUIKER.



**CE**



1. *All electrical connections should be made by a properly qualified electrician. The fan must be sited and connected in accordance with current IEE regulations (U.K.) or the appropriate standards in your country.*
2. *This fan is not suitable for installation in a shower cubicle or enclosure and must be sited away from direct sources of water spray. It must be out of reach of a person using a fixed bath or shower. Site away from direct sources of heat. Ambient temperature range: 0 to 40%DC. Do not site in an area containing excessive levels of grease.*
3. *When the fan is installed in a room containing a fuel burning appliance the installer must ensure that air replacement is adequate for both the fan and the fuel burning appliance.*
4. *Wiring should be via a switched spur with a 3 amp fuse (U.K.). Double pole switch or plug and socket should be located outside the room containing a fixed bath or shower.*
5. *Ducted Applications. In circumstances where an excessive amount of moisture is present in the air, then a condensation trap will need to be installed in the exhaust duct. Horizontal ducts should fall away from the fan unit. Ducts passing through an unheated roof void should be insulated.*
5. *CENTRIF 170HP and 250HP. These fan models are fitted with automatic electronic humidity sensing. In addition to the above instructions the fan should ideally be mounted on an inside wall between the major moisture source and the door to the other rooms of the building. The humidity sensor needs free air circulation so do not site closer than 100mm to cupboards, etc. Do not site above a radiator or other heat source. We recommend the HP models are mounted as shown in Fig. 2. 1.*

## DESCRIPTION

The CENTRIF Series is a range of centrifugal extractor fans. Suitable for both ceiling and wall installation, they may be adapted to an individual duct or to a communal ventilation system. Fig. 1. The discharge port, situated at the side on the back of the extractor housing, enables it to be installed anywhere on the wall or ceiling, even in inaccessible corners (Figs. 2 & 3).

**NOTE:** Pullcord models DP and HP should be mounted as shown in Fig. 2. 1. If **NOT** mounted as Fig. 2. 1., a support (not supplied) must guide the pullcord so that it does not rub the fan body. The pullcord (if used) **MUST** be easy to operate.

## INSTALLATION

**IMPORTANT: Switch OFF the mains supply before installing and making the electrical connections.**

Making use of the template enclosed, make a 100mm diameter round hole in the wall or ceiling.

**NOTE:** A 115mm dia. hole is required if a wall sleeve is utilised.

Drill the holes for the screws and insert the respective plugs in them. Take the extractor fan and withdraw the grille by pressing on the shoulders at the bottom (Fig. 4).

Remove retaining screw and lift off the terminal box cover (Fig. 5).

The installation may be made with the cable flush fitted by piercing either of the two notches provided for this (Fig. 6. 1), or else with surface wiring, using the side cable inlet (Fig. 6. 2).

Insert some 150mm of cable into the extractor housing and pass it through the cable clamp.

Fix the extractor to the wall. Arrange the foam rubber provided, around the discharge port so that it fits closely to the duct. Secure the extractor housing to the wall by inserting and tightening its screws.

## WIRING

**WARNING: This fan MUST NOT be earthed. It is double insulated. This fan MUST be connected to a 220-240V 50Hz AC single phase mains supply.**

There must be a double pole isolating switch in the installation with a contact separation of at least 3mm.

Connections depend upon the model of CENTRIF fan being installed and the required mode of operation.

Ensure that the mains supply is SWITCHED OFF before starting any wiring.

## **CENTRIF 250 AND 170**

Single speed fan. Controlled by remote switch (e.g. light switch or Auto-Sensor), Fig. 7. The neon indicator is lit when the fan is running.

## **CENTRIF 250DP AND 170DP**

Dual speed and OFF. Low speed running for permanent "trickle" ventilation / High speed override / OFF, controlled by integral pullcord switch, Fig. 8. Pullcord switch sequence - OFF, LOW, HIGH. The neon indicator is lit when the fan is running.

The CENTRIF 250DP only, may alternatively be connected for remote switching. The remote switch (e.g. light switch) will switch between permanent LOW speed "trickle" ventilation an HIGH speed override. There is no OFF position with remote switching. Use Fig. 9 for wiring to a remote switch, when the integral pullcord switch must be set for LOW speed and the pullcord cut off close to the fan.

## **CENTRIF 250HP AND 170HP**

The fan contains an integral humidity sensor. In automatic mode the control switches the fan on at LOW speed when the room Relative Humidity (RH) reaches the set-point. The fan will continue to run until the room RH falls below the set-point. To prevent night time tripping the humidity sensing is inactive below 10°C.

The integral pullcord or a remote switch (e.g. light switch) will switch between automatic humidity control and manual override at HIGH speed. The Light Emitting Diode (LED) indicator will be lit for manual override. The LED will NOT light under automatic humidity control, even if the fan is running. There is no permanent OFF position.

Use Fig. 8 for wiring the manual override by the integral pullcord. Use Fig. 9 for wiring the manual override to a remote switch, when the pullcord must be switched to the automatic position (LED off) and the cord cut off close to the fan.

The humidity control is factory set to switch on at about 72% RH.

To LOWER the set-point use a small screwdriver to turn the adjuster ANTI-CLOCKWISE, Fig. 10. This makes the controller MORE sensitive to RH, i.e. it will come on at a lower RH.

To RAISE the set-point use a small screwdriver to turn the adjuster CLOCKWISE, Fig. 10. This makes the controller LESS sensitive to RH, i.e. it will come on at a higher RH.

- NOTES:**
1. Upon installation it is possible that the humidity control will make the fan run continuously until it has acclimatized to the environment.
  2. The fan uses a 'soft start' feature i.e. the motor will take several seconds to reach speed.

## **CENTRIF 250T AND 170T**

Single speed with overrun timer. The fan must be wired to a remote switch (e.g. light switch), Fig. 9. When switched "ON", the fan will operate at full speed, and will continue to run for a pre-set time after the switch is turned "OFF". The timer is factory set at 20 minutes. To reduce the operating time, turn the adjuster in an anti-clockwise direction, Fig. 10. The neon indicator is lit when the fan is running.

**After wiring is completed, replace terminal block cover and grille. Turn on mains supply and check operation.**

**N.B.** If used in a lighting circuit, for reliable operation, we recommend a tungsten filament lamp. The manufacturers of some fluorescent and low energy lighting systems indicate that these can interfere with electronic timer circuits.

## **CLEANING**

The CENTRIF Series has a safety switch which automatically isolates the fan motor when the outer grille is removed. In this way, the fan may be cleaned without any risk of electric shocks.

For cleaning purposes, remove the outer grille (Fig. 4) and, if your model is a CENTRIF 250, take out the filter at the back of it as well. The filter and the grille may be cleaned by hand in hot soapy water and the extractor housing wiped with a damp cloth.

We recommend you do not try to remove any more parts than those mentioned as any tampering would automatically cancel the guarantee.

*All regulations and requirements MUST be strictly followed to prevent hazards to life and property both during and after installation, and during any subsequent servicing and maintenance.*

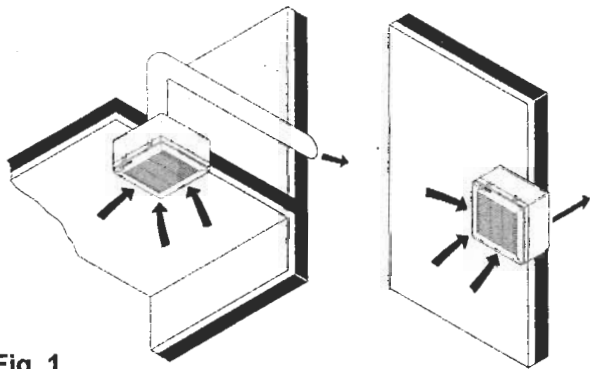


Fig. 1

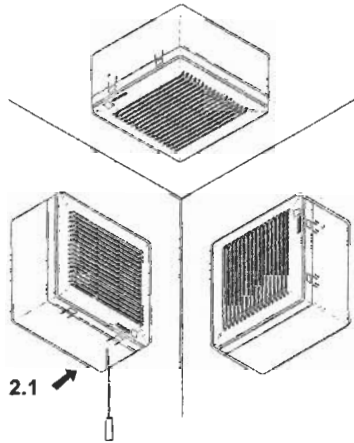


Fig. 2

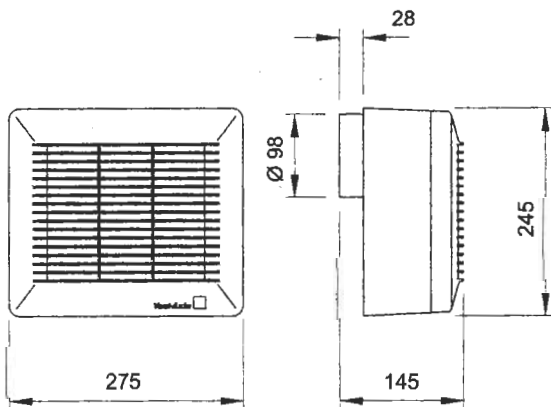


Fig. 3

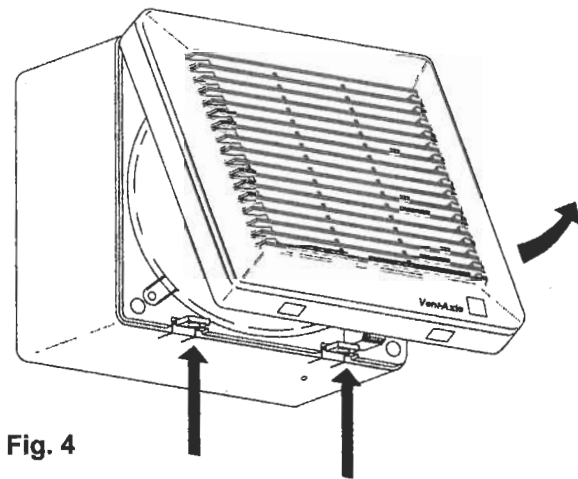


Fig. 4

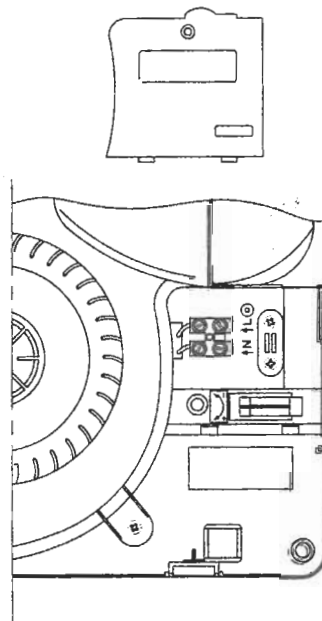


Fig. 5

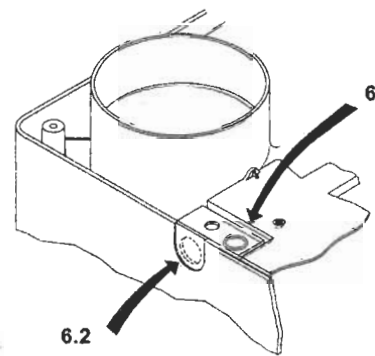


Fig. 6

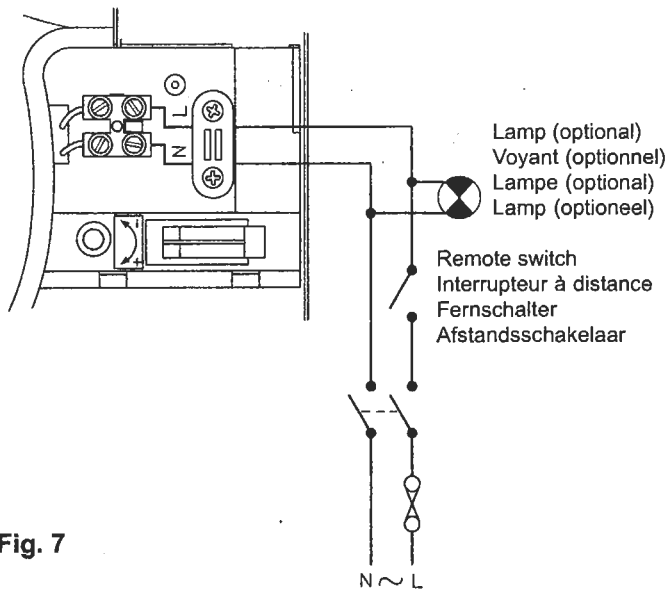


Fig. 7

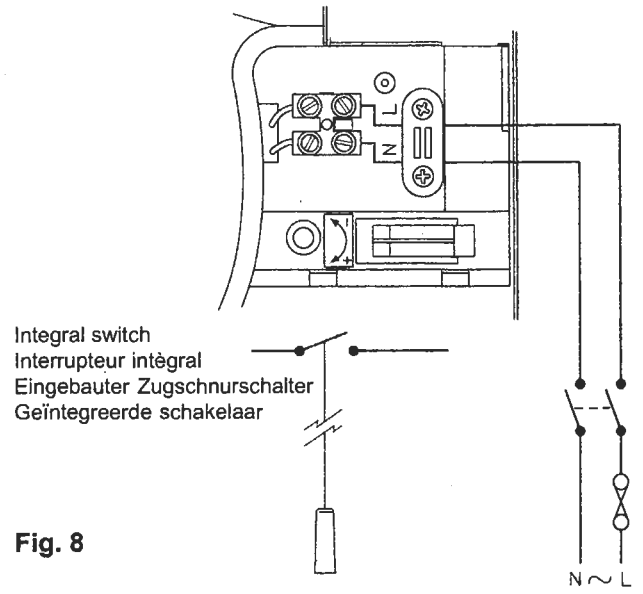


Fig. 8

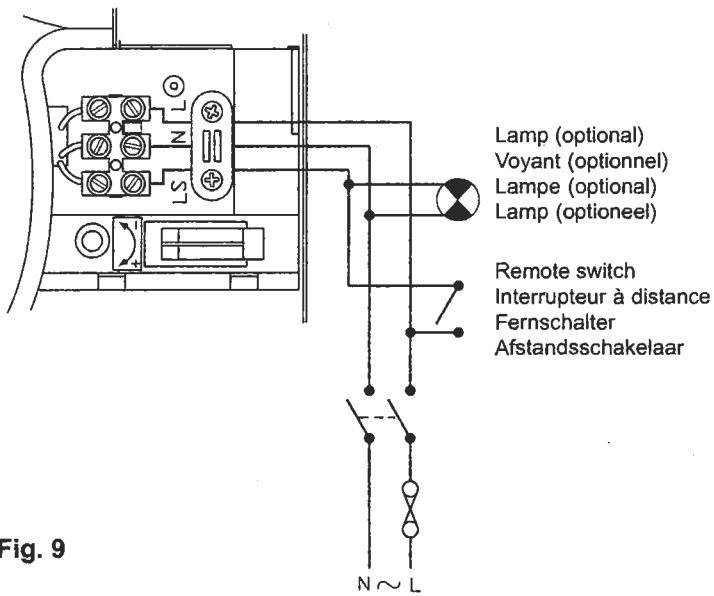


Fig. 9

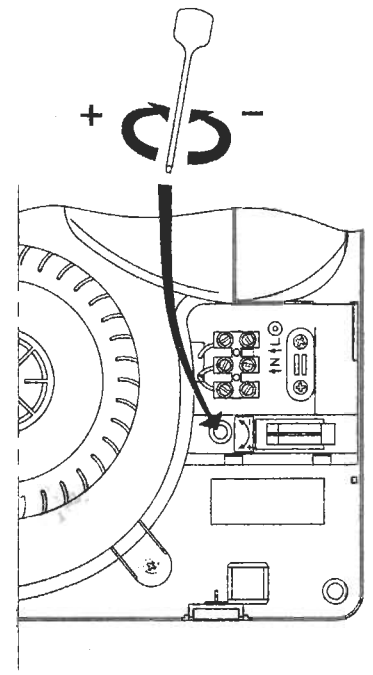


Fig. 10