

## INSTALLATION INSTRUCTIONS FOR TF FAN MODELS

*The TF induct mounted fans have been designed for applications that require high air flows and pressure with low noise levels.*



### General Conditions

- This type of extractor fan is designed to work inserted into any stretch of air extraction conduit, whether positioned vertically or horizontally.
- This tubular extractor is designed to be installed in a flexible or rigid ducting of 100/125/150 mm diameter depending on the TF model. The extractor (C) is placed between the inlet (A) and the exhaust (B) See Fig 1.
- Do not install the exhaust pipe of the extractor unit to a chimney, ventilation pipe or hot air conduit.
- Before connecting the units to the ducting, consult the local regulations regarding exhaust air.
- Precautions must be taken to avoid the backflow of gases into the room from the open flue of gas or other open-fire appliances when mounted in outside windows or walls.
- Make sure there is sufficient make up air, especially when used with an appliance with a combustion chamber.
- This extractor is designed for the ventilation of homes or similar premises.
- Do not use the extractor in explosive atmospheres
- Do not use in premises where the room temperature exceeds 55°C.
- This extractor does not cause any interference in radio/television sets (CEE regulations No 89/336)
- This fan is double insulated and does not require an earth. Having unpacked the extractor fan, check that it is undamaged and that it works correctly. If there are faults or damage, do not attempt to use it or repair it yourself.

### Installation Guidelines

Switch off the mains supply before making any electrical connections. If in any doubt contact a qualified electrician.

- Installation, electrical connections and adjustments must be performed according to the local regulations by a qualified person
  - Failure to comply with these instructions will void the warranty
  - In the event of incorrect installation, the Manufacturer will not accept responsibility for the material or personal damage which may occur.
  - Before beginning the installation, check that:
    - The fan is not distorted or damaged
    - There is no foreign body lodged within the casing
    - The fan moves freely on being turned by hand
1. Loosen the 2 screws (D) and lift the flanges (E). Take the casing assembly (F) out of its housing (F.2)
  2. Install the supporting assembly and spigots (G) in the (C) position (Fig.1). To do this it is necessary to:
    - Locate the extractor in its installation place (wall or ceiling) and mark the 4 holes (H).
    - Mark the 4 holes using a 6mm bit.
    - Use the plugs and screws supplied with the extractor to fix the assembly. It is advisable to locate the extractor at a distance of 1 metre or more away from the closest bend and also from the nearest inlet and outlet.
  3. Join the inlet (A) and outlet (B) duct to the spigots (I) with jubilee clips, cable ties or similar to ensure a long term seal is achieved. See Fig 2. It is important that the ducting is of the same diameter as the spigots to allow efficient operation of the fan.
  4. Replace the casing (F) in its housing so that the airflow (indicated on label) and cable outlet direction are as desired. Close the flanges (E) and tighten the screws (D) (fig 2). N.B. Make sure that once the extractor is installed there is no accidental access to the moving parts.

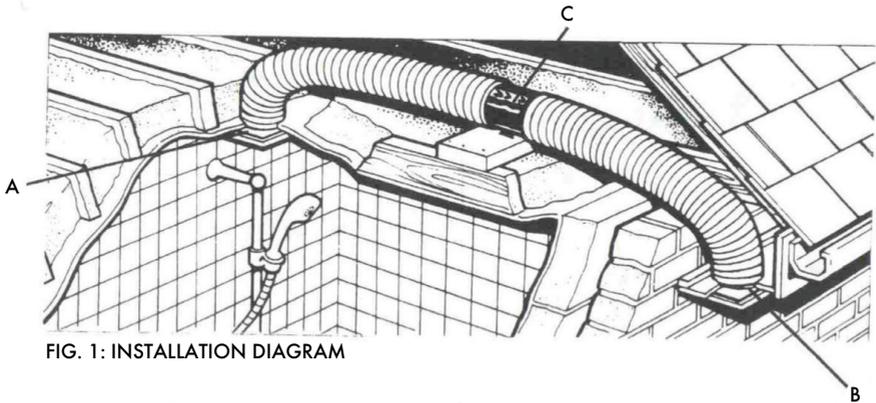
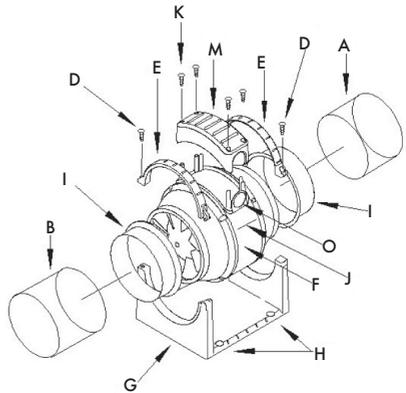


FIG. 1: INSTALLATION DIAGRAM

### Electrical Connections

- The extractor fan must be connected to a single phase mains network, at the voltage and frequency indicated on the extractor specification plate.
- The installation must have an omnipolar switch with a contact separation of at least 3mm. The circuit must be protected by either a 3 Amp fuse or suitable 3A MCB.
- Earthing is not required as this extractor is a class II double insulated appliance.
- The extractor must be connected permanently to by a fixed installation cable secured in fixed channelling. (Flex of two conductor wires of minimum section 1mm<sup>2</sup> and maximum 1.5mm<sup>2</sup>).
- The 100 / 125 / 150mm fans have a two speed motor, the 200mm fans have a three speed motor.



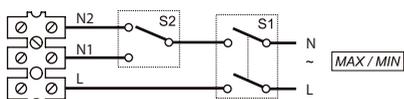
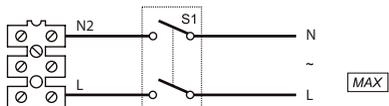
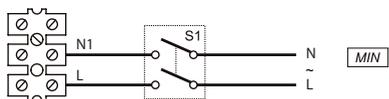
### To make the Electrical Connection:

1. Loosen the 4 screws (1. K) and take off the connection cover (M) (Fig. 2).
2. Perforate the flex holder (O) to allow the power supply wires to pass through (Fig. 2 & 3).
3. Make the connections as indicated on the next page.

This appliance does not need an earth connection as it is double insulated. (Class II)

CONNECT THE LIVE SUPPLY TO **L** TERMINAL

CONNECT THE NEUTRAL TO ONE OF THE **N** TERMINALS - SEE BELOW:



### Maintenance and service

Switch off mains supply before making any electrical connections. If in any doubt contact a qualified electrician.

For any maintenance operation which is not simply cleaning the exterior of the extractor fan, the casing assembly must be taken out of its housing as indicated in point 1 of the installation instructions. Then the two reducer tubes (V) must be removed. (see Fig.14)

#### To remove casing assembly:

1. Loosen 8 screws (X)
2. Gently separate reduce cones (V) from chassis.

The motor, fan and all the components must be regularly inspected to ensure that they are not dirty nor have suffered any damage. The frequency will depend on its operating conditions.

During the maintenance sessions remove any dirt collected on the fan blades and the internal parts of the frame to avoid any imbalance in operation which would lead to a reduction of the aerodynamic qualities and possible damage to the motor.

Never submerge the appliance in water or in any liquid. Do not use solvents to clean the appliance. The motor bearings need no maintenance.

### RATING/ SPECIFICATIONS

For all electrical power and IP ratings refer to the fan rating and wiring label.

### IMPORTANT

Switch off mains supply before making any electrical connections. If in any doubt contact a qualified electrician. The appliance is not intended for use by young children or infirm persons without supervision.

Young children should be supervised to ensure that they do not play with the appliance.

Precautions must be taken to avoid the backflow of gases into the room from the open flue of gas or other open-fire appliances when mounted in outside windows or walls.

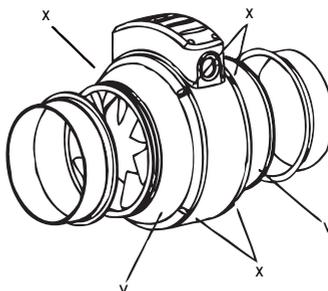
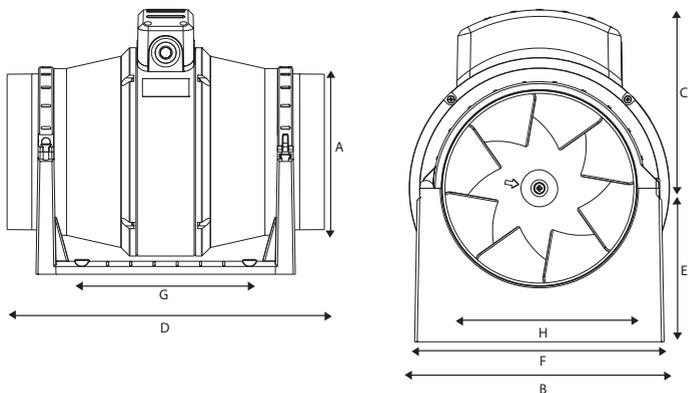


Fig.14

## Dimensions (mm)

Size	100	125	150
A $\emptyset$	97	122	147
B $\emptyset$	178	178	200
C	124	124	138
D	298	259	350
E	96	96	118
F	168	168	192
G	120	120	162
H	153.5	153.5	178



Modell	Art. nr.
Fresh TF100 Kanalfläkt	430102
Fresh TF125 Kanalfläkt	430112
Fresh TF150 Kanalfläkt	430122