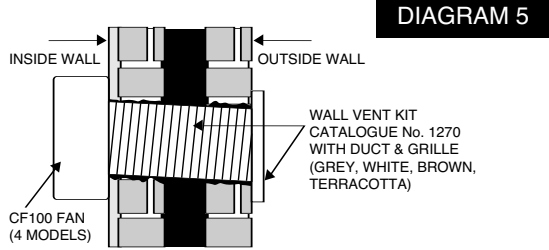


## Discharge Provision

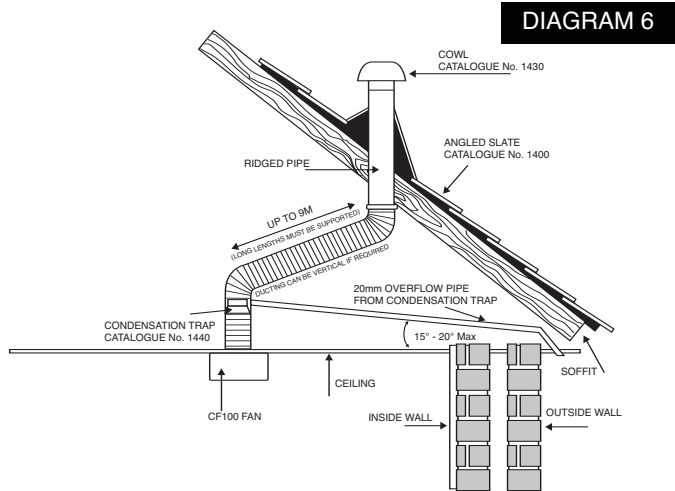
Discharge may be via a roof cowl and weathering slate with ridged pipe (through Roof Vent Kit catalogue no.1380) or horizontally through a wall or soffit using a fixed grille Catalogue No. 1150).

Ducting discharging horizontally should slope slightly downwards to external grille to allow condensation to drain away. **(Diagram 5)**

Roof discharge ducted vertically away should be fitted with a condensation trap (Catalogue no. 1440) and overflow **(Diagram 6)** to drain off condensation. This fan is ideal for ducting over long distances.



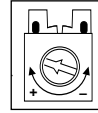
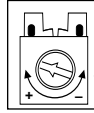
**DIAGRAM 5**



**DIAGRAM 6**

## HUMIDITY ADJUSTMENT

To adjust humidity and timer  
remove front cover and the timer cover



### TIMER CONTROL ADJUSTMENT

- 1) Turn anti-clockwise to reduce time setting. Minimum time is 30 seconds.
- 2) Turn clockwise to increase time setting. Maximum time is 30 mins.

### HUMIDITY SENSOR ADJUSTMENT

- 1) Turn anti-clockwise to increase sensitivity e.g. fan will stay on most of time (45-50%Rh)
- 2) Turn clockwise to reduce sensitivity e.g. fan will not switch on until humidity is very high (90-100%Rh)

### TIMER ADJUSTMENT



The 100 fan with a time delay fitted will run approximately one minute after it has been switched off. This time delay can be increased by firstly switching off the power to the fan. Remove front cover and the timer cover as detailed. Insert a small screwdriver into the slot marked . Turn clockwise to reduce the time and anti-clockwise to increase the time. (For CF100 range adjust by turning thumb wheel). **Only adjust with power switched off.**

The minimum time the timer will run for is 20 seconds and the maximum is approx 20 minutes.

### IMPORTANT:

Switch off mains supply before making any electrical connections. Installation must be supervised by a qualified electrician.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

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

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

### MAINTENANCE:

Switch off mains supply and isolate the fan before carryout any maintenance. The front cover can be removed and cleaned with warm soapy water or polish.

The fan impellor and the inside of the fan can be cleaned using a warm damp cloth, care must be taken not to make the electrical connections wet.

It is recommended to check the electrical connections annually.

## INSTALLATION INSTRUCTIONS FOR THE RANGE CF100, 200 & 400 CENTRIFUGAL EXTRACTOR FANS

- NOTE:**
- (i) For best results this Extractor Fan should be fitted as high on the wall as possible or, if preferred, on the ceiling.
  - (ii) Do not install the unit within a shower cubicle. Use our shower fans model.
  - (iii) Switch off mains supply before making electrical connections. If in any doubt contact a qualified electrician.
  - (iv) This fan is double insulated and does not require an earth.
  - (iv) ) These units are for fixed wiring only. A flexible cord must not be used .All wiring must be fixed securely and the cable to the fan should be a minimum of 1mm<sup>2</sup> in section. All wiring must comply with current I.E.E. Regulations. If in any doubt contact a qualified electrician.

1. Cut a 112mm (4 1/2") minimum diameter hole in the wall. If the fan is to be fixed in the ceiling ensure that the hole is between the joists. If rigid duct is used to install the fan it must be a minimum of 290mm long, If flexible duct is used to install the fan it must be a minimum of 500mm (19 1/2 ") from the fan to the outlet grille.
2. Fit 100mm/4" (internal diameter) ducting flush to the plaster.
3. Remove the cover from the fan by removing the two small screw caps on the front cover and remove the two retaining Philips screws.
4. Hold the body of the fan against the wall or ceiling and mark the four screw holes and the cable entry.  
**IMPORTANT:** Ensure that the fan is square on wall or ceiling.

Fan	Cable Length
100	230mm (9")
200/400	300mm (12")

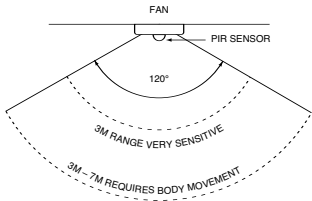
5. Bring power cable into position, as marked. Allow extra protruding to facilitate connection. See cable length chart.
6. **Wiring of Standard Model**  
The fan can either be operated from a separate pullcord switch fitted to the ceiling of the room or can be connected to the light switch so that the fan will start when the light is switched on.
7. **Wiring of Pullcord Model (NOT SUITABLE FOR CEILING MOUNTING)**  
This fan has its own integral pullcord on/off switch.
8. **Wiring of Timer Model - Diagram 3**  
The fan can either be operated from a separate pullcord switch fitted to the ceiling of the room or can be connected to the light switch so that the fan will start when the light is switched on.

9. **Wiring of Humidity Model - Diagram 2A**  
 For the fan to operate as a normal time delay unit with humidity over-ride i.e. when connected with a switched live coming from the light switch into the fan, the fan will operate when the light is switched on, and switch off after about 20 seconds to 20 minutes (timer is pre-set for the minimum). However, should the humidity in the room reach about 75%, which will happen if the shower is run or the bath filled with hot water, the fan will switch on and keep running until the humidity has been reduced to a normal level, about 65%. (Humidity sensor is adjustable.) Diagram 2a

10. **Wiring of Timer Pullcord Model - Diagram 3a**  
**(NOT SUITABLE FOR CEILING MOUNTING)**  
 This model is as the Timer model but with its own pullcord switch and should be installed as model the pullcord model and does not require a switched live power supply.

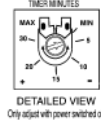
11. **Wiring of Humidity Pullcord Model - Diagram 3a**  
**(NOT SUITABLE FOR CEILING MOUNTING)**  
 This model is as the humidity model but with its own pullcord switch and neon light power indicator and should be installed as model the pullcord model and does not require a switched live power supply.

12. **Wiring of PIR Model - Diagram 1**  
 PIR Activated model with adjustable timer which switches on as a person enters the room and runs on the timer after the room is vacated. There is no need to connect to a separate switch and it does not require a switched live. This model should be installed as model the pullcord model. The timer is adjustable 1-20 mins. A double pole fused spur having a contact separation of at least 3mm in all poles must be used and fitted with a 3amp fuse, and must be sited outside any room containing a shower or fixed bath. The fan must not be accessible to a person using either the shower or the bath.



PIR Fan

DIAGRAM 1



**NOTE** Timer and Humidity adjustment is clearly indicated and calibrated on the internal label located on PCB cover plate.

**OPERATOR INSTRUCTIONS**  
**HUMIDITY OPERATED TIME DELAY CONTROL**

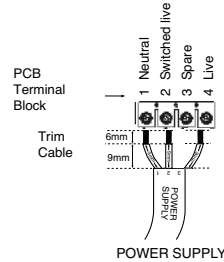
DIAGRAM 2



The timer and humidity adjustments are as the normal instructions

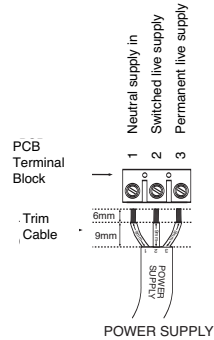
Wiring diagram for Humidity Model

DIAGRAM 2A



Wiring diagram for Timer Model

DIAGRAM 3



Wiring diagram for Humidity Pullcord and Timer Pullcord Model

DIAGRAM 3a

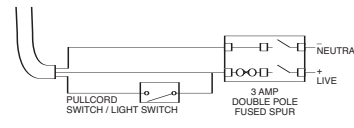
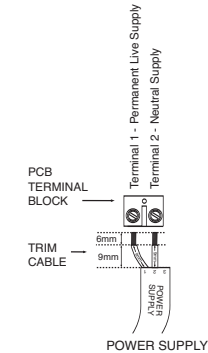
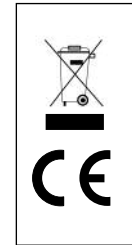
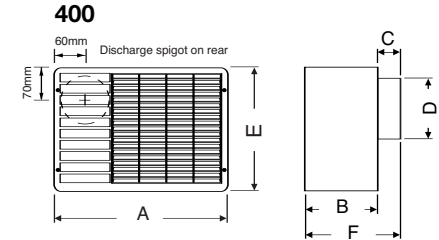
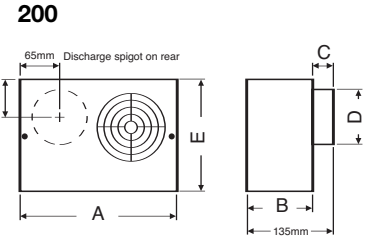
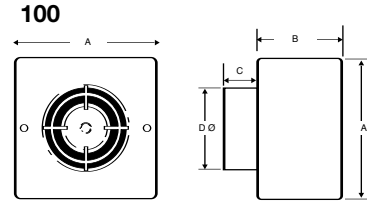


DIAGRAM 4

Dimensions



	A	B	C	D	E	F
100	163	90	70	100Ø		
200	260	90	45	100Ø	185	135
400	350	108	53	100Ø	265	153