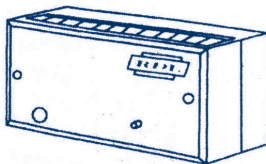


## INSTALLATION / OPERATING INSTRUCTIONS FOR 12V FAN CONTROLLER RANGE

*MODEL NUMBERS: 12VFC / 12VFCPC / 12VFCT / 12VFCTPC / 12VFCFS / 12VFCFSPC*



### IMPORTANT

Please note, this safety extra low voltage (SELV) fan and its supply controller must be installed by a fully qualified electrician in compliance with current I.E.E and appropriate local regulations. In order to satisfy current building regulations, correct fan selection and installation practices must be applied.

### POSITIONING THE CONTROLLER

It is a requirement of I.E.E. regulations that the controller is installed in a position that is out of reach of a person using a bath or shower. Controller models which do not have a humidistat may be fitted outside the room containing the fan.

Humidistat models must be fitted inside the room containing the fan and sited as high on the wall as possible, but not within 50mm of the ceiling and adjacent wall. All controller models must not be installed in a shower cubicle, above a bath or where there is any possibility of liquid spray. They must not be installed where the normal air temperature may exceed 40°C or in an area containing excessive levels of grease.

Fan controllers should not be covered with any heat insulating material, air flow around the fitting should not be restricted. Note 50mm minimum distance to all adjacent surfaces. All models come complete with a patress box but can be flush wall mounted by using a suitable 25mm deep fixing box.

# CONTROLLER ELECTRICAL SUPPLY

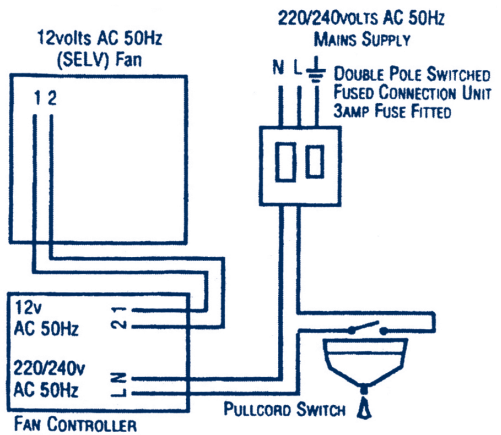
Rated single phase 220/240V AC 50Hz input providing 12V 50Hz 30VA max. safety extra low voltage (SELV) output. Class II double insulated - no earth required. The controller's electrical supply must be connected via an RCD double pole fused connection unit having a contact separation of at least 3mm in all poles and fitted with a 3amp fuse. This must be sited outside of a room which contains a fixed bath or shower. PLEASE NOTE - the controller is only suitable for operating one SELV (extra low voltage) fan.

## DIAGRAM 1

### 12VFC - Standard Model

TERMINAL L - LIVE SUPPLY  
TERMINAL N - NEUTRAL SUPPLY

TERMINAL 1 - TO FAN 1  
TERMINAL 2 - TO FAN 2

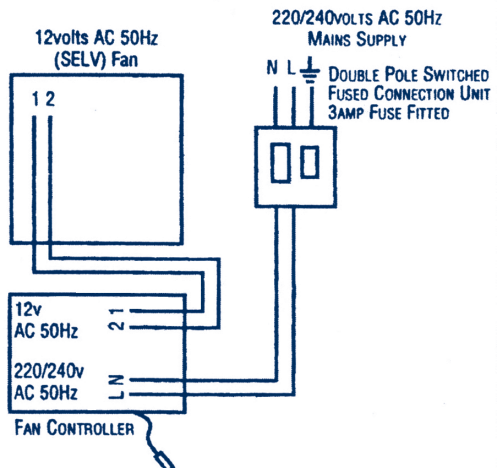


## DIAGRAM 2

### 12VFCPC - Integral Pullcord Switch Operated Model (Non timer)

TERMINAL L - LIVE SUPPLY  
TERMINAL N - NEUTRAL SUPPLY

TERMINAL 1 - TO FAN 1  
TERMINAL 2 - TO FAN 2



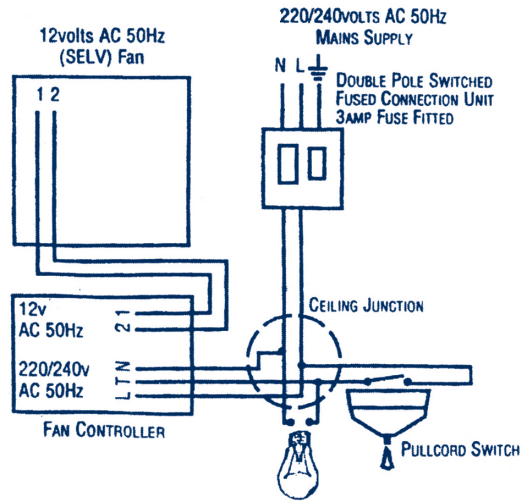
### DIAGRAM 3

**12VFCT / 12VFCTPC / 12VFCHS /  
12VFCHSPC**

**Overrun Timer & Humidistat  
Models for Remote Pullcord  
Switch Operation**

TERMINAL L - LIVE SUPPLY  
TERMINAL T - SWITCHED LIVE SUPPLY  
TERMINAL N - NEUTRAL SUPPLY

TERMINAL 1 - TO FAN 1  
TERMINAL 2 - TO FAN 2



## INSTALLING THE CONTROLLER

1. Fix the (SELV) fan cable and the mains supply cable in position ensuring sufficient length is left for the connections.
2. Remove suitable cable entry knockouts from the pattress box and fix in position using screws and (possible masonry plugs) compatible with the mounting surface.
3. Make the correct electrical connections (See overleaf for which wiring diagram to follow) to the controller terminal blocks.
4. Refit the controller to the pattress box taking care not to overtighten the fixing screws or trap any wires.

MODEL	WIRING DIAGRAM	DESCRIPTION	OPERATING
Standard 12VFC	1	For remote switching.	Remote switch on - Fan runs Remote switch off - Fan stops
Pullcord Switch 12VFCPC	2	Integral Pullcord Switch.	Pullcord switch on - Fan runs Pullcord switch off - Fan stops
Overrun Timer 12VFCT	3	Adjustable (2-30 mins) Overrun timer for remote switching.	Remote switch on - Fan runs Remote switch off - Fan overruns for preset time.
Overrun Timer & Pullcord Switch 12VFCTPC	2	As above with integral pullcord switch.	As above - Operated by integral pullcord switch.
Overrun Timer & Humidistat 12VFCHS	3	Adjustable (2-30 mins) overrun timer for remote switching. Integral humidity sensor switching.	Remote switch on - Fan runs Remote switch off - Fan overruns for preset time. Automatic operation when relative humidity level in room rises above 70%.
Overrun Timer, Humidistat & Pullcord 12VFCHSPC	2	As above with integral pullcord switch.	As above - Operated by integral pullcord switch.

## HUMIDISTAT MODELS

Upon initial installation, the fan may run continuously for up to 10 days until the relative humidity has been reduced to an acceptable level. Prevailing weather conditions can also have an effect and in humid conditions normal running periods may be extended.

## CLEANING

Before cleaning, ensure the controller and fan are isolated from the mains supply. The front cover of the fan may be cleaned with a damp cloth. The interior of the fan should also be cleaned occasionally. To do this, first remove the front cover by loosening its locking screw, then clean carefully with a dry cloth. If necessary the fan blades may be cleaned with a soft brush.

PLEASE KEEP THESE  
INSTRUCTIONS SAFE  
FOR FUTURE REFERENCE

