

# AIRTECH

UT150SC/B

Installation and Wiring Instructions

UK  
CA



IP65



## SAFETY AND GUIDANCE NOTES

All wiring to be in accordance with the current I.E.E. Regulations, or the appropriate standards of your country and **MUST** be installed by a suitably qualified person.

The Fan should be provided with a local isolator switch capable of disconnecting all poles, having a contact separation of at least 3mm.

Ensure that the mains supply (Voltage, Frequency, and Phase) complies with the rating label.

The Fan should only be used in conjunction with the appropriate Airtech products.

The fan should only be used in conjunction with fixed wiring.

When the Fan is used to remove air from a room containing a fuel-burning appliance, ensure that the air replacement is adequate for both the fan and the fuel-burning appliance.

The Fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.

Where ducted Fans are used to handle moisture-laden air, a condensation trap should be fitted. Horizontal ducts should be arranged to slope slightly downwards away from the Fan.

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.

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



This product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.

## DESCRIPTION

Radon mitigation fans are used with under-floor extract and ventilation systems designed to remove the gas from underneath the floor of a house and vent it into the atmosphere through a pipe.

Radon is measured in becquerels per cubic metre of air (Bq m<sup>3</sup>) and Public Health England (PHE) has set the UK Action Level for radon at 200 Bq m<sup>3</sup>. Most homes in the UK have radon of around 20 Bq m<sup>3</sup>. Above 500 Bq m<sup>3</sup> a radon sump fan installation is usually required.

The UT150/SC is a centrifugal fan which can be used for becquerel levels from 0 to 2000+.

The UT150/SC is supplied with a Single Phase SC (Electronic) - 1.5 amps controller, an infinitely variable speed controller that allows you to manually adjust the speed of the fan by varying the motor voltage through phase angle control.

## INSTALLATION

### SITING

Avoid installing the fan on an occupied bedroom wall if running the fan at high speeds.

It is normal for the fan to be set at the mid point on the controller for levels of approx. 200 plus Bqs up to 1500Bqs. The lower and higher settings are generally for use after a re-test or if the levels are exceptionally high.

Please note the supply voltage can affect the speed of the extraction rate.

All connections must be via fixed wiring. The speed controller is supplied fitted inside a IP67 rated enclosure.

Use the supplied brackets to mount the fan to the wall.

Ensure the fan is the correct way up (note the airflow direction arrow on the fan)



**IMPORTANT:** After installation, the fan wiring enclosure should be sealed with silicone sealant to ensure water cannot get in and damage the fan.

## WIRING

**WARNING:** THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

### IMPORTANT

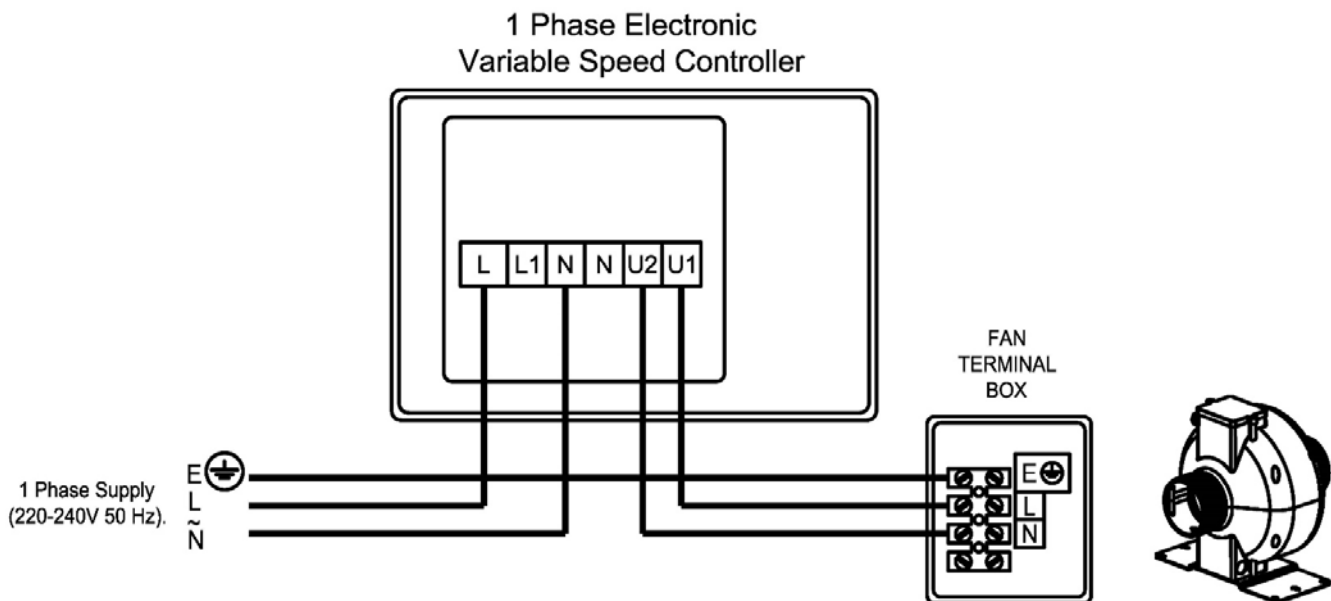
Solid core cable must be used.

The cross - sectional area of supply cord used should be ranged from 1 -2.5mm<sup>2</sup> .

The wiring **MUST** be enclosed in conduit/trunking.

The fan and controller are suitable for connection to 220-240V 50Hz supply.

The fan is class I and **MUST** be earthed.



## SERVICING AND MAINTENANCE

**WARNING:** THE FAN AND ANCILLARY CONTROL EQUIPMENT **MUST** BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

1. At intervals appropriate to the installation, the fan should be inspected and cleaned to ensure there is no build up of dirt or other deposits.
2. Operation should be checked on a weekly basis.

**The fan has sealed for life bearings, which do not require lubrication.**

