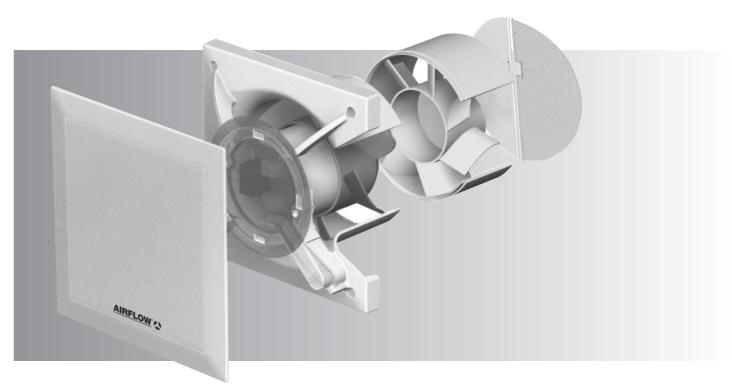
# 

### Installation and Operating Instructions QuietAir 100mm/120mm Axial Fan



### Warranty:

Applicable to units installed and used in the United Kingdom. Airflow's Warranty covers the QuietAir fan for TWO years. The Warranty can be upgraded to THREE years from date of purchase against faulty material or workmanship by registering on our web site at www.airflow.com. The Warranty covers the product only and not the installation cost.

In the event of any defective parts being found, Airflow Developments Ltd reserve the right to repair or at our discretion replace without charge provided that the unit

- 1. Has been installed and used in accordance with the fitting and wiring instructions supplied with each unit
- 2. Has not been connected to an unsuitable electrical supply
- 3. Has not been subjected to issue, neglect or damage.
- 4. Has not been modified or repaired by any person not authorised by Airflow Developments Ltd.
- 5. Has been installed in accordance with latest Building Regulations and IEE wiring regulations.

Airflow Developments shall not be liable for any loss, injury or other consequential damage, in the event of a failure of the equipment or arising from, or in connection with, the equipment excepting only that nothing in this condition shall be construed as to exclude or restrict liability for negligence.

This warranty does not in any way affect any statutory or other consumer rights.



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airflow.com



Basic Switching

- Low Energy
- Whisper Quiet
- Long Life
- Extra Safe





### MODEL:QT 100B - Two Speed Fan (75/90m<sup>3</sup>/hr) QT 120B - Two Speed Fan (150/170m<sup>3</sup>/hr)



WARNING

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Wiring diagram QT100B & QT120B ......Page 5

### CHAPTER 1

### 1.0 Important information

INSTALLATION AND OPERATING INSTRUCTIONS

## operator (tenant/owner).

### 1.1 Warning and safety instructions must be absolutely adhered to, so that any danger situation is avoided.

### 1.2 Warranty - Exclusion of liability

This also applies to any liability claims extended to the manufacturer. warranty.

### 1.3 Certificates

Standards at its date of manufacture.

### 1.4 Receipt

Please check delivery immediately on receipt for accuracy and damage. If damaged, please notify carrier immediately. In case of delayed notification, any possible claim may be void.

### 1.5 Storage

be water proof, vibration-free and free of temperature variations. Damages due to improper transportation, storage or putting into operation are not liable for warranty.

### 1.6 Application/Operation

The fans are designed for air extraction of living spaces. If the unit is to be used in other applications where high humidity, excessive dust, temperature in excess of 40 °C or long periods at standstill (not running), please contact your local dealer for advice. This also applies for special technical and electrical applications. The complete fan corresponds to protection IP 45 (jet water-protected), protection class II and is suitable for use in zone 1 of bathrooms.

### The fan may only be used for its intended purpose !

### 1.7 Performance

NOTE

NOTE

ducting and the replacement air supply. when the fan is operating at maximum extract rate. sting noise.

### 1.8 General information

Intake air duct: Every room which must be ventilated must have an intake air opening to prevent negative pressure conditions.

### 1.9 Safety

- Technical data on type plate are to be adhered to without fail.
  - The degree of protection given on the type plate is only valid with designed installation in accordance

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems) This marking shown on the product or its Operation and Installation Instruction, indicates that it should not be disposed with other household wastes at the end of its

working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract This product should not be mixed with other commercial wastes for disposal.

To ensure safety and correct operation please read and observe the following instructions carefully before proceeding. The electrical connection must be fully isolated from the supply up to the final assembly ! Keep the installation and operating instructions as a reference at the device. After the final assembly the document must be handed out to the

### Accompanying symbol is a safety-relevant prominent warning label. All safety regulations and/or symbols

If the preceding instructions are not observed all warranty claims and accommodation treatment are excluded. The use of accessories not offered or recommended is not permitted. Potential damages are not liable for

If the product is installed correctly and used to its intended purpose, it conforms to all applicable European

When storing for a prolonged time the following steps are to be taken to avoid damaging influences: Protection of motor by dry, air- dustproof packing (plastic bags with drying agent and moisture indicators). The storage place must

When storing for several years or non rotation of motor an inspection of the bearings with possible relubrication and an electrical inspection to VDE 0701 and VDE 0530 are absolutely necessary before starting operation. When transhipping (especially over longer distances) check if the packing is adequate for method and manner of transportation.

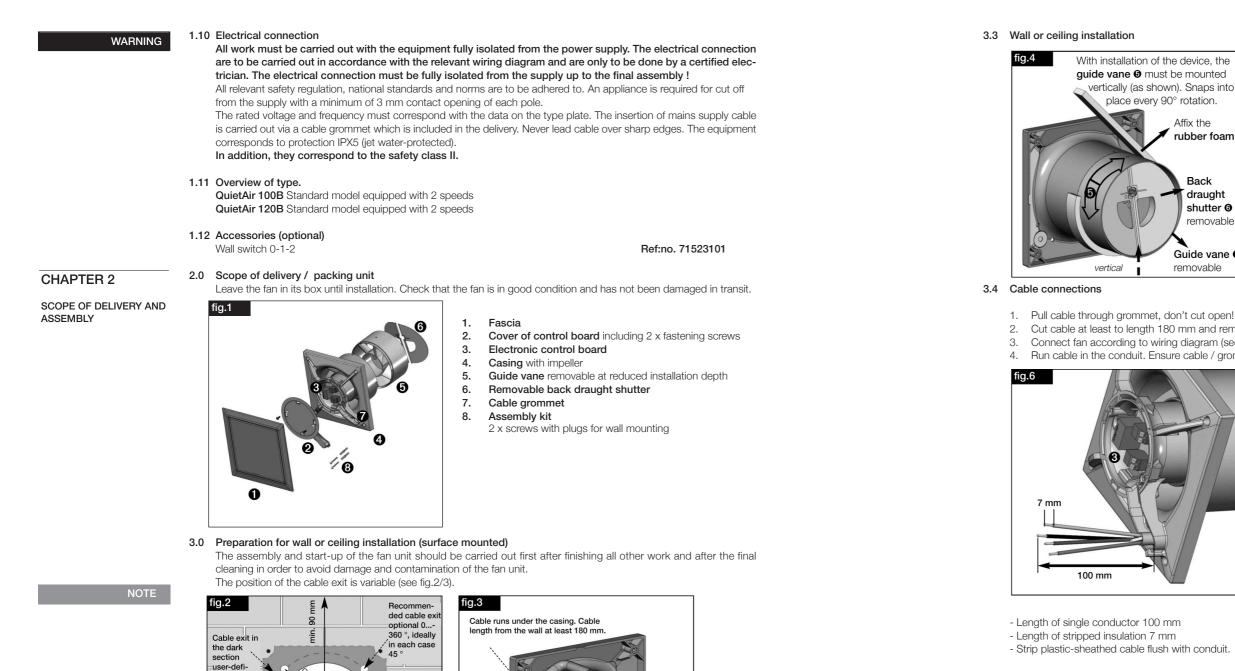
The unit must be installed correctly to achieve the optimum performance. This applies to the installation of the unit, the

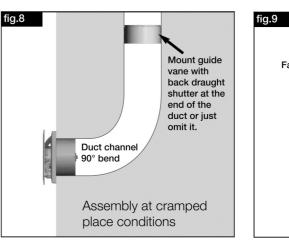
If installing in a room where the fan can affect a fuel burning device (e.g. a gas boiler) which has a balanced flue, it is the installer's responsibility to ensure that there is sufficient replacement air to prevent fumes being drawn down the flue

The catalogue noise levels stated are A-rated sound power levels LWA (to DIN 45635 T.1). The A-rated sound pressure level LPA depends on the acoustic condition in the room in which it is installed. These affect considerably the adju-

- All servicing and installations may only be carried out by a certified electrician.

- The fans may be operated only with the rated voltage indicated on the type plate.
- with these installation and operating instructions and with closed fascia.





### 3.1 Cable exit from the wall

- Distance to the duct centre depending on cable exit 58/68 mm with a variable position under the casing. - For a simple assembly an exit is recommended as shown (turnable by 90° in each case).
- The optimal position is 45° each if the cable exit is directly at the position of the cable grommet.

` Drill holes

- Duct inside diameter QT100B =100mm / QT120B =120mm and distance to room corners: at least 90 mm
- Mounting hole radius QT100B = 58mm / QT120B = 68mm

#### 3.2 Drill holes

NOTE

nod

min. 90 m

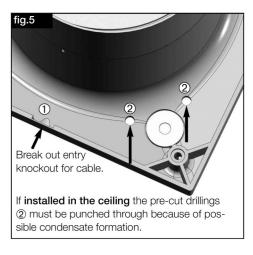
- Set casing against the wall, mark the holes and drill. Fasten with at least 2 screws and plugs. For surface installation the casing is provided with a side entry knockout (Fig.5, Pos.1) for the cable ! The mains supply cable is to be kept in such a way that no ingress of moisture is made possible along the cable.

With installation of the device, the vertically (as shown). Snaps into place every 90° rotation.

> Affix the rubber foam

> > Back draught shutter @ removable

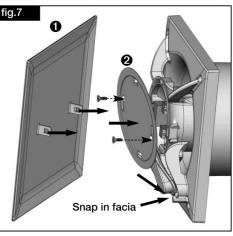
Guide vane O removable



Cut cable at least to length 180 mm and remove cable jacket at least 100 mm in length. Connect fan according to wiring diagram (see page 5).

Run cable in the conduit. Ensure cable / grommett is sealed to maintain IP45.





- 1. Press cover of control board (2) on casing and fasten with screws.
- 2. Snap in fascia. (1)

Guide vane with back draught shutter Standard installation WARNING

NOTE

CHAPTER 4	
ELECTRICAL CONNECTION	

All work must be carried out with the equipment fully isolated from the power supply. The electrical connection is to be carried out in accordance with the relevant wiring diagram and are only to be done by a certified electrician. The fan may not be operated with transformer controllers.

All relevant safety regulation, national standards and norms are to be adhered to.

### 4.1 Electronic control board

4.0 Electrical connection

The electronic control board allows the operation with 2 speeds (75/90 m<sup>3</sup>hr) for QT100B & (150/170m<sup>3</sup>hr) for QT120B. The control board is fitted into a splash-proof casing.

### EMV regulation

### Important indication for the electromagnetic compatibility

Interference resistance according to DIN EN 55014-2 depending upon impulse form and energy rate of 1000 V to 4000 V. With operation with fluorescent tubes, switch power supplies, electronically regulated halogen bulbs etc. these values can be exceeded.

In this case additional suppression shielding activities are necessary (L -, C or RC elements, protection diodes, resistors).

CHAPTER 5

### CLEANING AND MAINTENANCE

### 5.0 Cleaning and maintenance

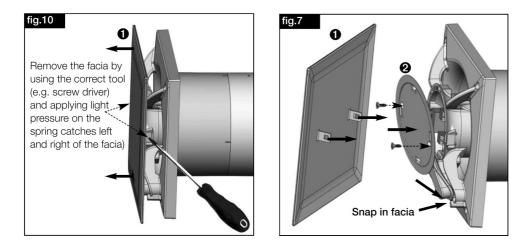
- Before cleaning, ensure that the fan is isolated from the power supply.
- Prevent unintentional restart !
- Clean device only with a damp cloth.The device is maintenance-free.

### 5.1 Dismantling of fascia

### Procedure:

- 1. Isolate the device from the power supply and prevent unintentional restart!
- 2. Remove the fascia (1) by using the correct tool (e.g. screw driver) and applying light pressure on the spring catches left and right of the fascia (Fig.10).

3. Unfasten the screws of the control board cover (2) (Fig.11).



### CHAPTER 6

TROUBLESHOOTING

### 6.0 Troubleshooting

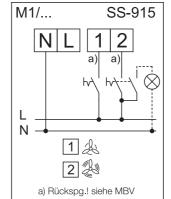
- If the thermal protection trips this could be the result of dirt build-up, a hard running impeller and/or bearings. Too high winding temperature through insufficient motor cooling, or too high air flow temperature could be the cause of disturbance.

- Abnormal noises can mean worn out bearings.

- Vibrations can originate from an unbalanced or dirty impeller or due to the installation.
- Extreme performance reduction can occur if the fan must work against too high resistance of the ventilation system or if there is a lack of sufficient supply air (causing also higher sound level).

### Wiring diagram overview

QuietAir 100B - 75 (90)m³/hr QuietAir 120B - 150(170)m³/hr



#### Footnotes:

a) During parallel connection of the terminal 1-2 an inverse voltage rests respectively against the other not switched terminal. Connect room lighting only via two-pole switch.

### Functional description:

The fan QT100B is equipped with two speeds (75/90 m $^3$ /h) and QT120B (150/170 m $^3$ /h) and operated with a two speed switch (optional).

