



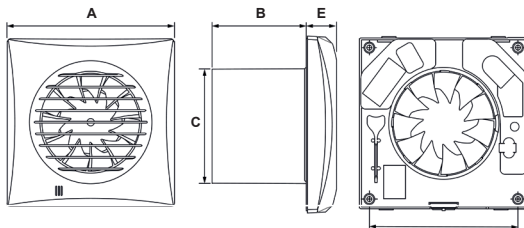
# Aria quiet 100

Fan Range  
Installation and  
Operating Guide



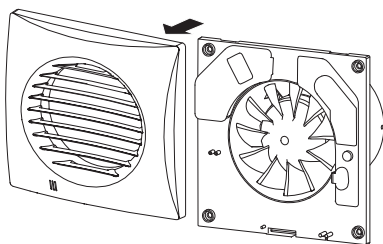
- Aria quiet 100B - 90001047
- Aria quiet 100T - 90001048
- Aria quiet 100HT - 90001050
- Aria quiet 100MST - 90001051

## Fan dimensions



Model	A	B	C	D	E
Aria quiet 100	155	81	100	136	26

## Fan overview



## Range overview

Aria quiet fans are designed for ventilation of domestic i.e. bathrooms, toilets and shower rooms. They are recommended for through the wall and ducted installation.

The Aria quiet 100B model may be used as a simple extract fan operated by remote switch (not supplied). The Aria quiet 100T model includes an adjustable timer function 2 to 30 minutes. The Aria quiet 100HT model includes an adjustable timer function 2 to 30 minutes and an adjustable humidity function 60 to 90% RH. The Aria quiet 100MST models includes adjustable timer function 2 to 30 minutes and motion sensing.

Fan Size	Max flow, m <sup>3</sup> /h	Nominal power, W	Noise level dB(A)
100mm	97	7.5	25

## Electrical installation

The Aria quiet fan range is IP45 rated and is suitable for mounting in Zone 1 and 2 in bathrooms, toilets, kitchens, utility rooms and inside shower cubicles when installed with a 30mA RCD. In addition AFDD protection is also required. The fan requires a 220 - 240V 50Hz single phase supply. Class II equipment. BS EN 60417. An external 3A fuse is required for each fan unit. Cable sizes (max): Fixed flat wiring 2 core 1mm<sup>2</sup>, 3 core 1/1.5mm<sup>2</sup>. All electrical installation work to be carried out by a competent person in compliance with the relevant Building Regulations/Standards as well as the current edition of BS7671 (IET Wiring Regulations).

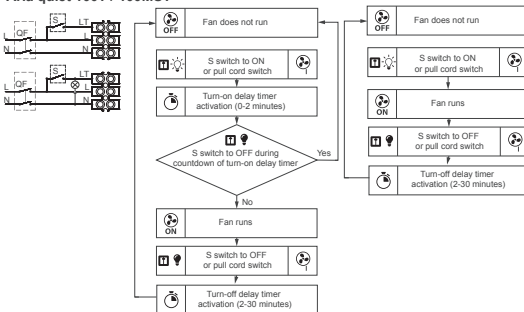
## Important notes

The Aria quiet range also complies with the requirements of the EU norms and directives. Do not place the ventilator near direct heat sources, e.g. radiant heaters, or where temperatures can exceed 40°C (104°F). Precautions must be taken to avoid back flow of gases in rooms with open flue fuel burning appliances.



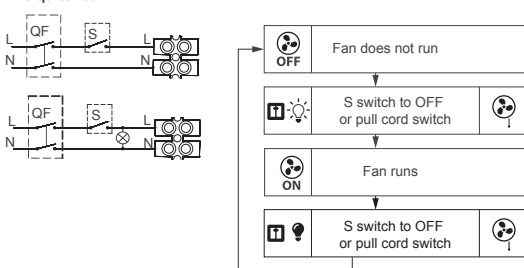
## Electrical installation

### Aria quiet 100T / 100MST

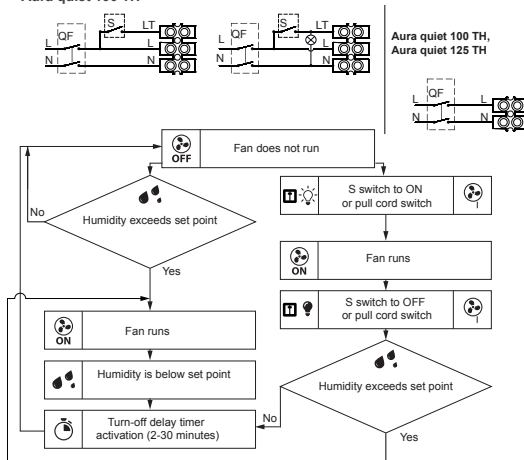


### Aria quiet 100B, T Wiring for fans with external switching

### Aria quiet 100PC



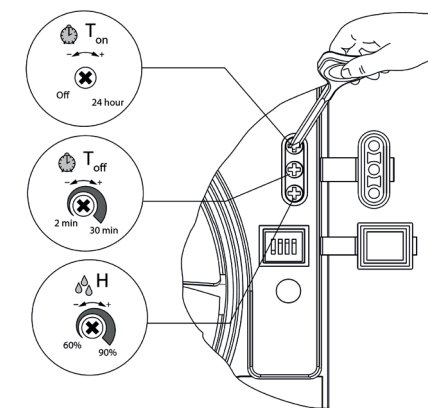
### Aria quiet 100 TH



## Mechanical installation

Aria quiet fans can be wall or ceiling mounted or ducted. For mounting the fan, a ø100mm hole is required for the spigot, as well as at least two holes for the mounting screws. When mounting the fan, remove the front cover and place the fan into the pre drilled hole. Make sure that the spigot fits into any pre-installed ducting. Wire the fan appropriately according to page 5, ensuring that the cables from the fan are routed through the provided cable hole. Use at least two mounting screws to secure the fan to the ceiling or wall ensuring not to over tighten and replace the front cover with the retention screw. Ensure free running of the fan impeller and that flexible duct connections are not over tightened to the fan outlet spigot. Airflow recommends that rigid ducting is used instead of flexible ducting, this will ensure maximum performance

## Fan assembly - Timer and Humidity /Timer Dependant upon model



**Fan adjustment - Timer**

The fan with timer function switches on when the voltage is supplied to the LT(1) terminal via an external switch. After the voltage to the LT(1) terminal is disconnected the fan continues to run for the set overrun period between 2 and 30 minutes. The overrun period is adjusted by turning the potentiometer clockwise to increase and anti-clockwise to decrease.

**Recommended Best Practice**

The Building Regulations 2010, Statutory Instrument Part 9, paragraph 42, imposes a requirement that testing and reporting of mechanical ventilation performance is conducted in accordance with an approved procedure. Compliance with this requirement by an assessed and registered 'Competent Person' should follow a 'Best Practice' process and adopt air flow measurement, Method A – The Unconditional Method – using a suitable UKAS certified measuring instrument. Generically referred to as a 'Zero Pressure Air Flow Meter' or 'Powered Flow Meter'. Further information on this method is detailed in NHBC Building Regulations Guidance Note G272a 10/13 and BSRIA 'A Guide to Measuring air flow rates' document BG46/2015

**Fan adjustment - Humidity / Timer**

Humidity and timer functions are activated when the voltage is supplied to the LT(1) terminal via an external switch or when the humidity level rises above the set % RH level (adjustable between 60 and 90% RH). After the voltage to the Ls terminal is disconnected or the humidity level falls below the set %RH level, the fan continues to run for the set overrun period between 2 and 30 minutes. The humidity level is adjusted by turning the potentiometer clockwise to increase and anti-clockwise to decrease. To set the maximum humidity level the potentiometer has to set at the max position (90%).



**Maintenance**

**SAFETY FIRST: ALWAYS ISOLATE THE FAN UNIT FROM THE POWER SUPPLY BEFORE REMOVING THE COVER.** When installed according to these instructions the Aria range is completely safe. The materials used do not constitute a hazard.

**Cleaning**

The external housing of the fan can be wiped with a damp cloth. Do not use household cleaners containing abrasives.

**Note:** Always isolate the fan when cleaning. Never clean any parts of the fan assembly by immersing in water or using a dishwasher.

**Warning**

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. Always isolate fan for electrical supply prior to any cleaning or maintenance.

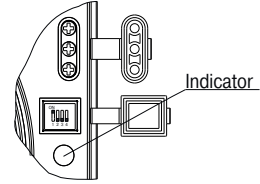
**Fan adjustment - Motion sensor / Timer**

The fan with motion sensor and timer function switches on when movement is detected between a distance of 1 and 4 metres from the fan. The sensor has a detection angle of 100° horizontally.

Once movement ceases, the fan continues to run for the set overrun period which is adjustable between 2 and 30 minute.

**Operating indication, dependant upon model**

- 1.The light indicator blinks green once in 5 seconds - the fan operates with minimum speed in standby mode.
- 2.The light indicator blinks green once in a second - the turn-on delay time is activated (60 seconds).
- 3.The light indicator glows red - the humidity sensor is activated and the fan runs at high speed.
- 4.The light indicator glows green - the switch is turned on and the fan runs at high speed.
- 5.The indicator light blinks green and red once in 1 second - the turn-off delay timer is activated.



**Warranty**

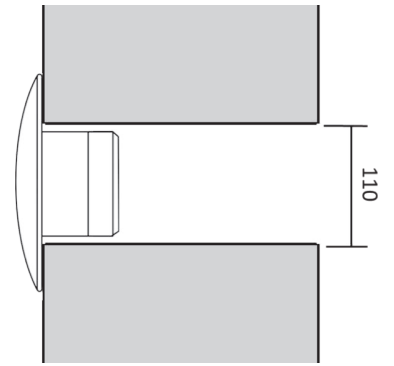
Applicable to units installed and used in the United Kingdom. Airflow Developments Ltd guarantees the Aria for 2 years from date of purchase against faulty material or workmanship. Warranty only covers the fan, not the removal or reinstallation if required. In the event of any defective parts being found, 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 misuse, 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 BS7671 wiring regulations by a recognised competent installer.

Airflow Developments Ltd 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.**

**Through the wall installation or ducted with flexible ducting**



To maximise airflow rigid ducting should be used. Where flexible ducting is used the diameter must be maintained and it is good ventilation practice that the ducting is extended to 90% of its possible length in order to maintain the best possible airflow. Ensure that flexible duct connections are not over tightened to the fan outlet spigot. The fan and ducting should be installed in accordance with the requirements of the Domestic Ventilation Compliance Guide, part of the Building Regulations.



**Disposal**  
Do not dispose of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.

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AIRFLOW DEVELOPMENTS LTD reserve the right in the interest of continuous development to alter any or all specifications without prior notice.