



**Aura-eco** 230V Fan Range  
Installation and Operating Guide

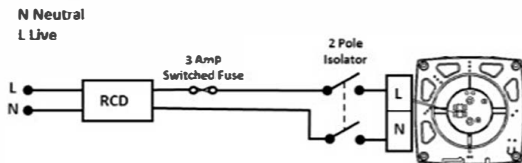


- AUE 100B – 9041347
- AUE 100T – 9041348
- AUE 100HT – 9041349
- AUE 100MST – 9041350
- AUE 125B – 90000532
- AUE 125T – 90000533
- AUE 125HT – 90000534
- AUE 125MST – 90000535
- AUE 150B – 9041351
- AUE 150T – 9041352
- AUE 150HT – 9041353
- AUE 150MST – 9041354

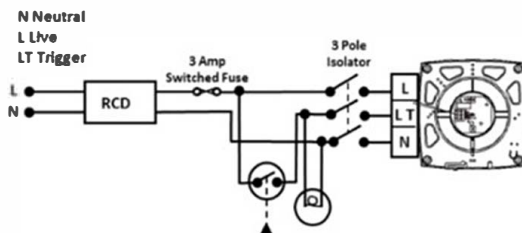


**Electrical installation**

AUE 100/150B, MST Wiring fans with no external switching

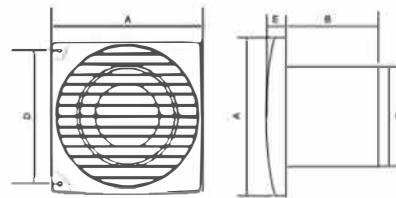


AUE 100/150 T, HT Wiring fans with external switching



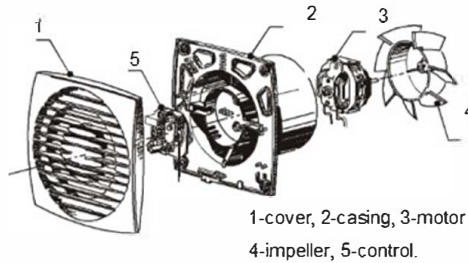
**Note:** The electrical supply cable must be fitted through the cable grommet supplied and the grommet installed in the casing.

**Fan**



Model	A	B	C	D	E
Aura eco 100	160	102	100	122	17
Aura eco 125	176	87	125	141	19
Aura eco 150	205	124	150	174	19

**Fan overview**



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**Mechanical installation**

Aura-eco fans can be wall mounted

Ensure free running of the fan impeller and that flexible duct connections are not over tightened to the fan outlet spigot.

For mounting the fan, a  $\varnothing$ 100/125/150mm 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

**Range overview**

Aura Eco 100 fans are designed for toilets.  
Aura Eco 125 fans are designed for bathrooms and utility rooms.  
Aura Eco 150 fans are designed for kitchens.

They are recommended for 'Through the Wall' installation.

The Aura-eco 100/125/150B models may be used as a simple extract fan operated by a remote switch.

The Aura-eco 100/125/150T models include adjustable timer function 2 to 30 minutes.

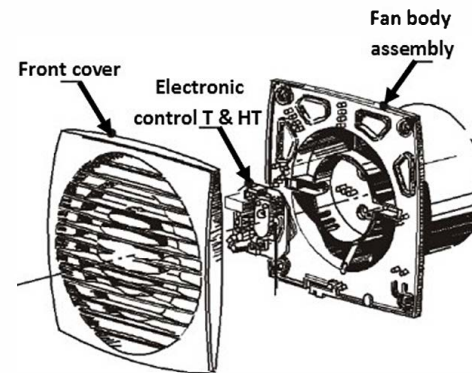
The Aura-eco 100/125/150HT models includes adjustable timer function 2 to 30 minutes and adjustable humidity function 60 to 90% RH.

The Aura-eco 100/125/150MST models includes adjustable timer function 2 to 30 minutes and motion sensing.

Fan Size	Max flow, m <sup>3</sup> /h	Max pressure, Pa	Nominal power, W	Noise level dB(A)
100mm	60	35	6	26
125mm	115	55	15	30
150mm	235	86	20	35

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**Fan assembly –Timer and Humidity /Timer**



**Electrical installation**

The Aura-eco fan range is IPX4 rated and is suitable for mounting in Zone 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 230V 50Hz single phase supply. Class II equipment. BS EN 60417. An external 3A fuse is required for each fan unit. Cable sizes (max): Fxd flat wiring 2 core 1mm<sup>2</sup>, 3 core 1/1.5mm<sup>2</sup>

All electrical installation to be carried out by an approved electrician in accordance with Part "P" U.K. Building Regulations and to the latest IEEE standards, or the appropriate regulations in the country of installation.

**Important notes**

The Aura-eco 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).

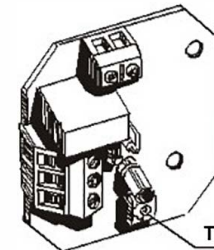
Precautions must be taken to avoid back flow of gases in rooms with open flue fuel burning appliances.

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**Fan adjustment—Timer**

The fan with timer function switches on when the voltage is supplied to the LT terminal via an external switch.

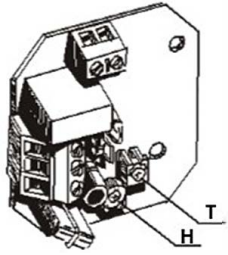
After the voltage to the LT terminal is disconnected the fan continues to run for the set overrun period between 2 and 30 minutes. The overrun period is adjusted by turning the potentiometer (T) clockwise to increase and anti-clockwise to decrease.



## Fan adjustment— Humidity / Timer

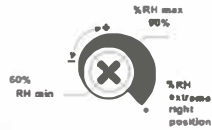
Humidity and timer functions are activated when the voltage is supplied to the LT terminal via an external switch or when the humidity level rises above the set %RH level (adjustable between 60 and 90%RH).

After the voltage to the LT 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. To adjust see page 10.



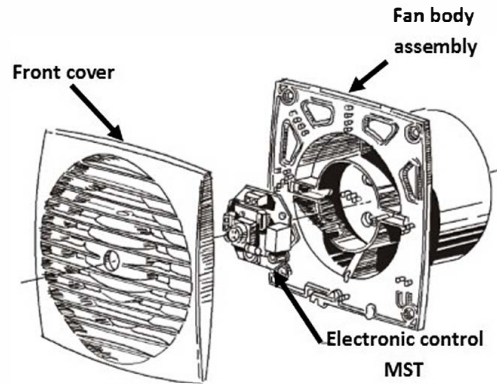
The humidity level is adjusted by turning the potentiometer (H) clockwise to increase and anti-clockwise to decrease. To set the maximum humidity level the potentiometer (H) has to set at the %RH MAX position.

Attention! If potentiometer (H) is adjusted above MAX H (further clockwise), there is a possibility that the fan will not switch on.



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## Fan Assembly—Motion sensor /Timer

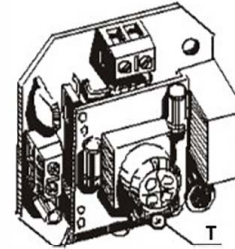


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## Fan adjustment—Motion sensor / Timer

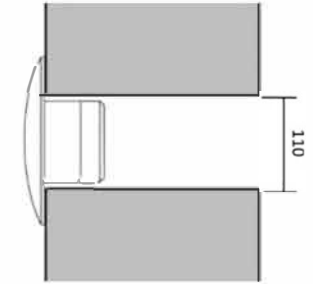
The fan with motion sensor and timer function switches on when movement is detected between a distance of 1 and 4 metres from the fan. The sensor has a detection angle of 100° horizontally.

Once movement ceases, the fan continues to run for the set overrun period which is adjustable between 2 and 30 minutes. To adjust see page 10.



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## Through the wall Installation 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.

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## 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 BSR IA 'A Guide to Measuring air flow rates' document BG46/2015

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## Maintenance

**SAFETY FIRST: ALWAYS ISOLATE THE FAN UNIT FROM THE POWER SUPPLY BEFORE REMOVING THE COVER.**

When installed according to these instructions the Aura-eco 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

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision

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## Warranty

Applicable to units installed and used in the United Kingdom. Airflow Developments Ltd guarantees the Aura-eco for 2 YEARS from date of purchase against faulty material or workmanship. Warranty only covers the fan, not the reinstallation of this 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 IEEE 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.

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### 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 of all specified details without prior notice.

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