



INSTALLATION INSTRUCTIONS

5 SERIES
TRANSITION BASE
(with ventilation booster/smoke spill fan if applicable)

GENERAL NOTES

Ventilators can be installed on new or existing roofs.

The following instruction is applicable to both new and existing roofs.

Ventilator shall be installed per the manufacturer's recommendations and specifications.

All installations to be done by qualified installers only.

Installation Contractor shall verify size, weight, location and all characteristics of mechanical and electrical equipment and openings before installation.

Installation Contractor is to review entire set of documents carefully prior to commencement of work and to provide additional reinforcement for all installation that require additional support.

Installation Contractor assumes full responsibility for the installation, materials and workmanship and that the installation is completed to normal roofing specifications.

Fan amperage and wiring diagrams should be checked with Airocle before installation.

All joints must be made watertight using silicone.

For any questions please contact Airocle on 1800 805 062.

Failure to follow these Installation Instructions will void the warranty.

VENTILATOR HEADS MUST NOT BE ROLLED ON THE BLADES. Blade damage may affect the lifespan of the ventilator and will void the warranty.

NOTES: Installation Contractor/Builder is responsible for the supply and installation of any backtray flashings and/or trimmer purlins required unless otherwise specified.

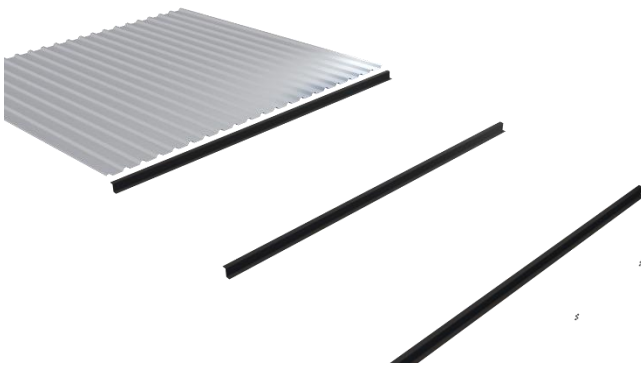
Smoke spill fans are not recommended for general ventilation purposes. Smoke spill fans must only be used for smoke clearance.

STEP 1

Select location for 5 Series Ventilator.

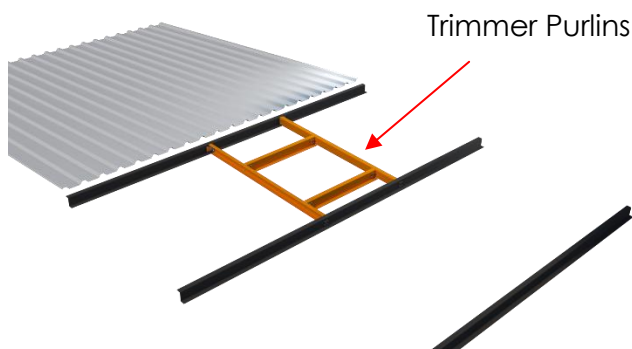
We recommend locating ventilator as close to ridge cap as possible. If there is a gap between the ridge and the ventilator transition base, an additional back flashing (provided by Builder or Installation Contractor) **MUST** be fitted. The process of back flash installation is described below in this instruction.

The overlap from 5 Series transition base to ridge cap or back flash is to be at least 100 mm. Please contact Airocle for transition base dimensions.



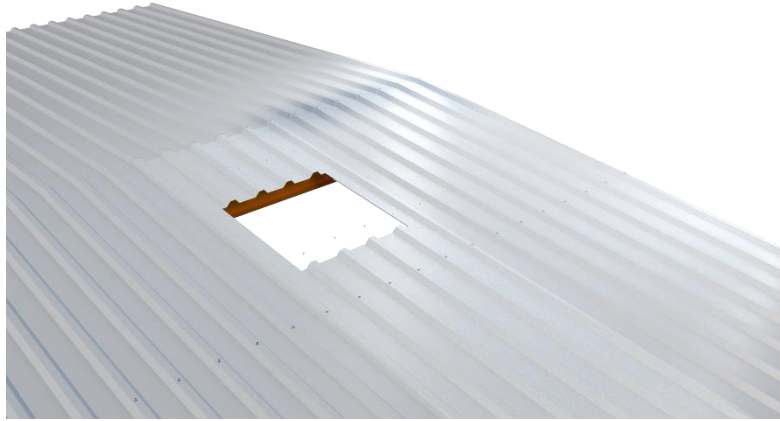
STEP 2

Install additional trimmer purling on existing purlins. Due to wind and static loads, **all ventilators 5AV.0500 and larger must be supported by trimmer purlins.**

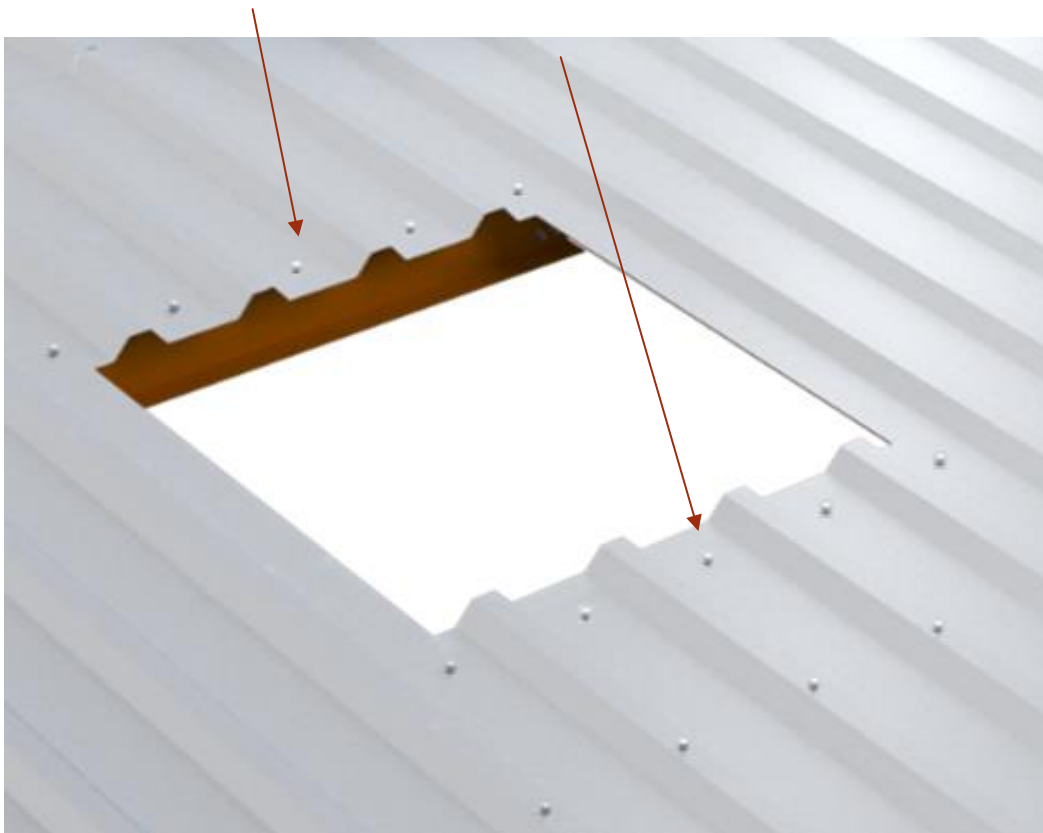


STEP 3

Install roof sheeting and cut the opening. Roof sheeting is to be longer to go over flange of purlins. For an existing roof cut opening for base so the roof sheeting extends past the purlin face/flange no more than 50mm, fold back sarking and lift edge of ridge capping.

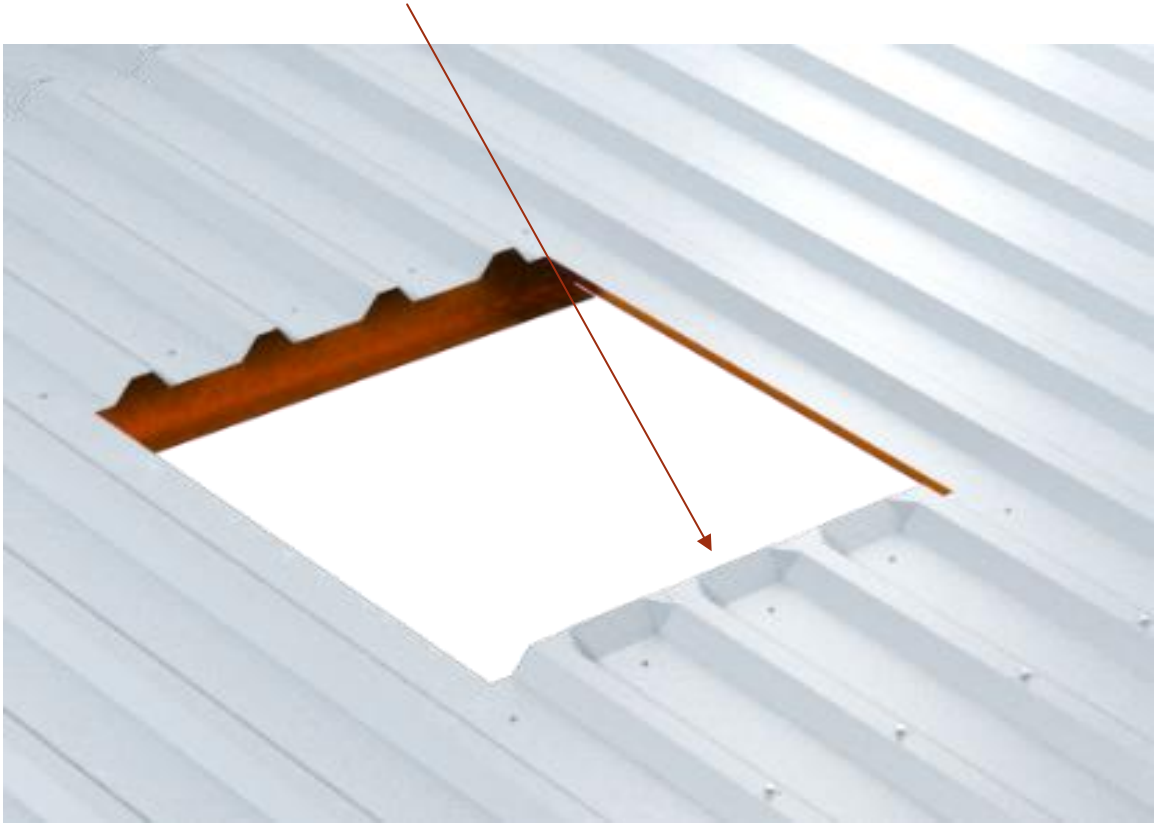


Screw the top and bottom pans into purlin/trimmer. Use metal screws with neoprene washers.

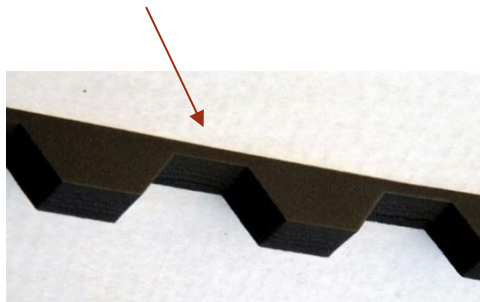


STEP 4

Turn up lower sheet ends.



Use ridge filler (supplied by installation contractor/builder for the roof sheet profile) in the pan bottom for additional closing sheet profile gaps and sealing joints above the profile and transmission base if necessary



STEP 5

Install smoke spill fan (if applicable) and fix it to purlin/trimmer using fixing locations provided.

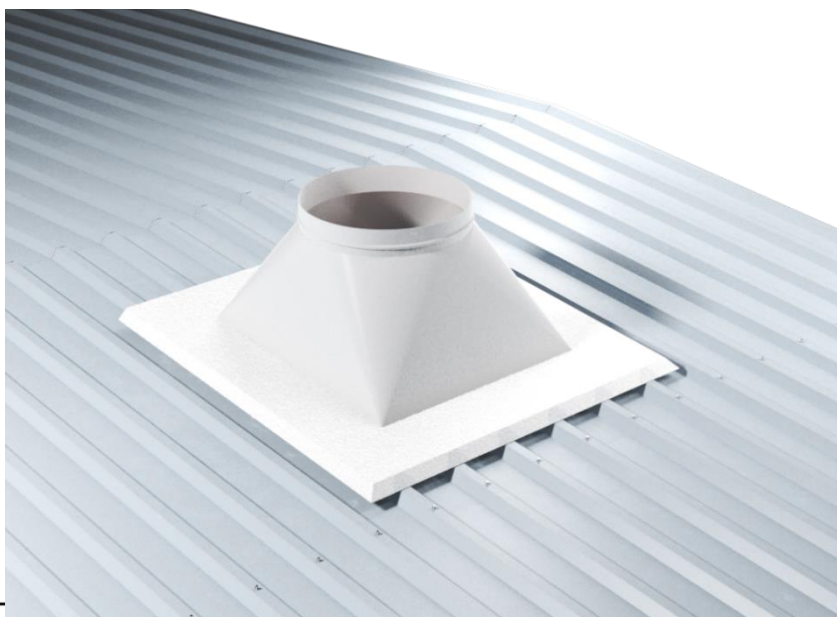
Smoke spill fans are not recommended for general ventilation purposes. Smoke spill fans must only be used for smoke clearance.

Ventilation booster fans are generally factory fitted to ventilator base.



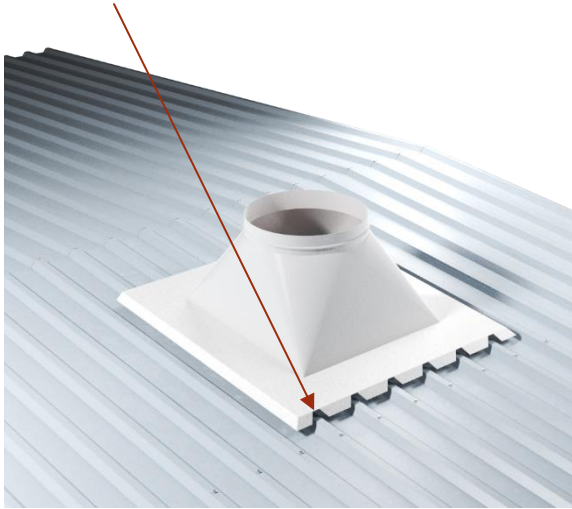
STEP 6

Lay over 5 Series transition base.

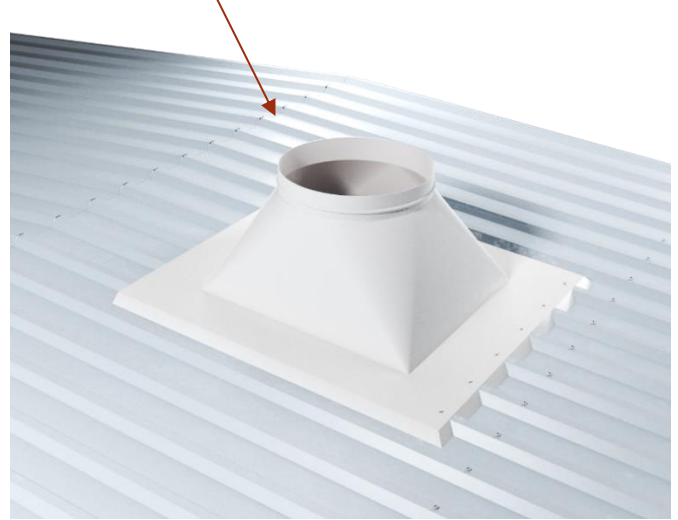


STEP 7

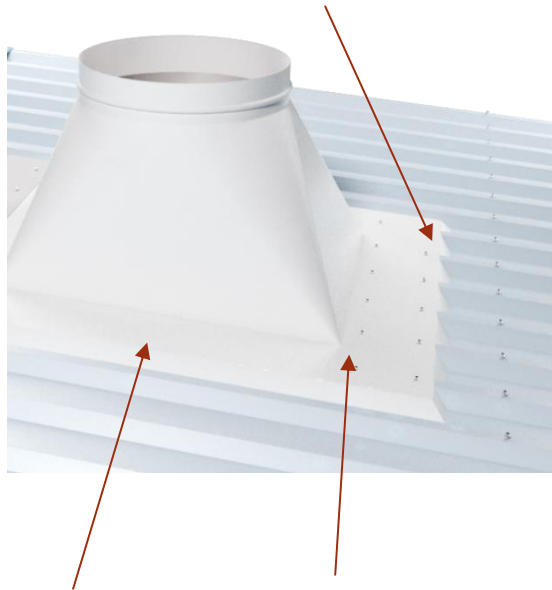
Notch turndown to suit roof profile.
Fold tabs backwards.



Ensure that top of transition base is level. If transition base is not level, ventilators life may be noisy and short, and warranty will be voided.



Fix transition base's lower edge through the apron into each rib ensuring screws penetrate into purlins/trimmers. Fix both side aprons at 300mm intervals using metal screws with neoprene washers.



NOTE: Due to wind and static loads, all ventilators 5AV.0500 and larger must be supported by side trimmer purlins fixed by screws at 300mm intervals in sheeting both sides of opening. Ensure screws penetrate side trimmers. Where ventilation booster or smoke spill fans are fitted an additional row of screws must be fitted above the screws on the lower edge. These must be a through fix to the installed trimmer.

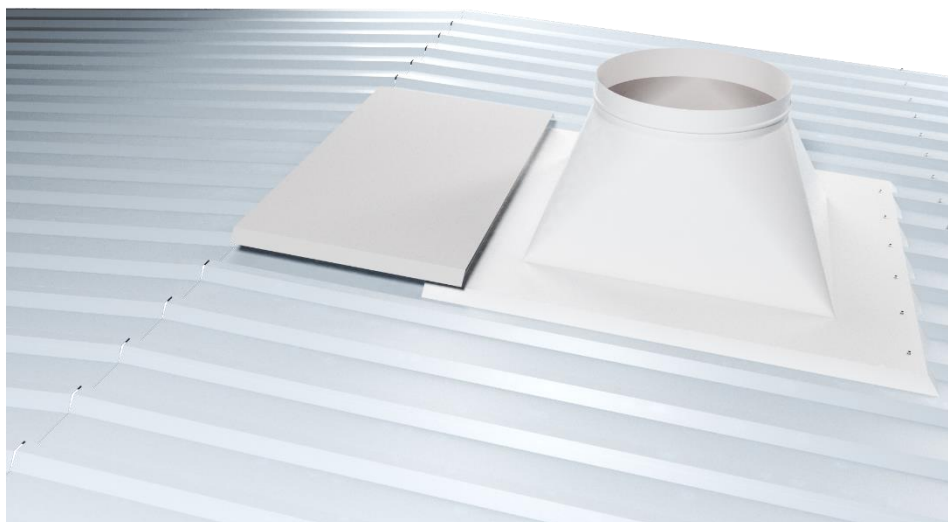
STEP 8

Apply silicone sealant before backtray goes in. Recommended lap is 100 mm. Place the first line of silicon sealant at 30mm from top edge and the second line at 50mm from top edge.



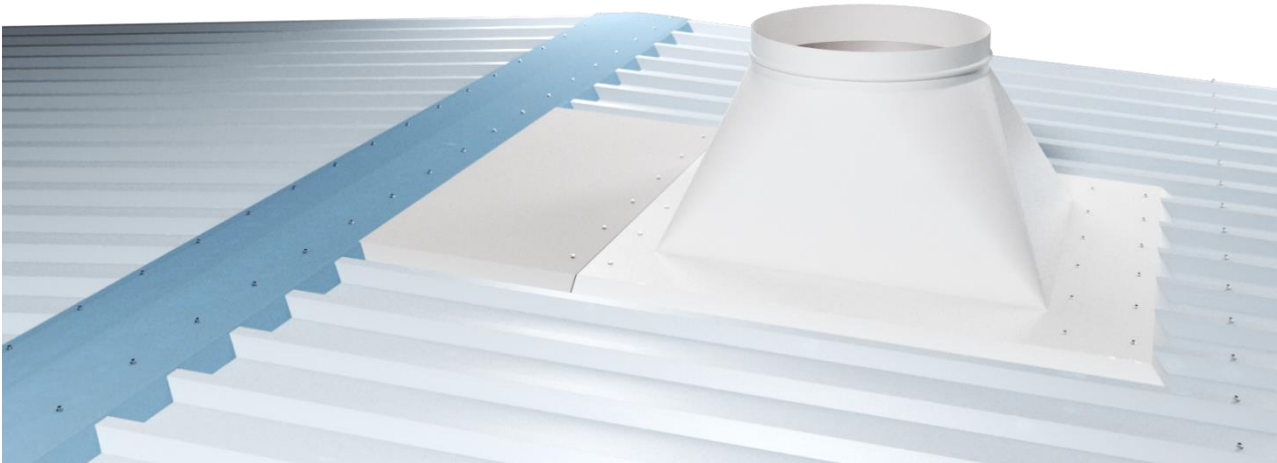
STEP 9

Install backtray (supplied by installation contractor/builder) over the base with lap of 100 mm. For existing installations backtray or base apron is tucked under existing ridge capping.



STEP 10

Install or refit ridge cap.



STEP 11

Place 5 Series Ventilator on transition base and screw to base at 300mm intervals around collar.

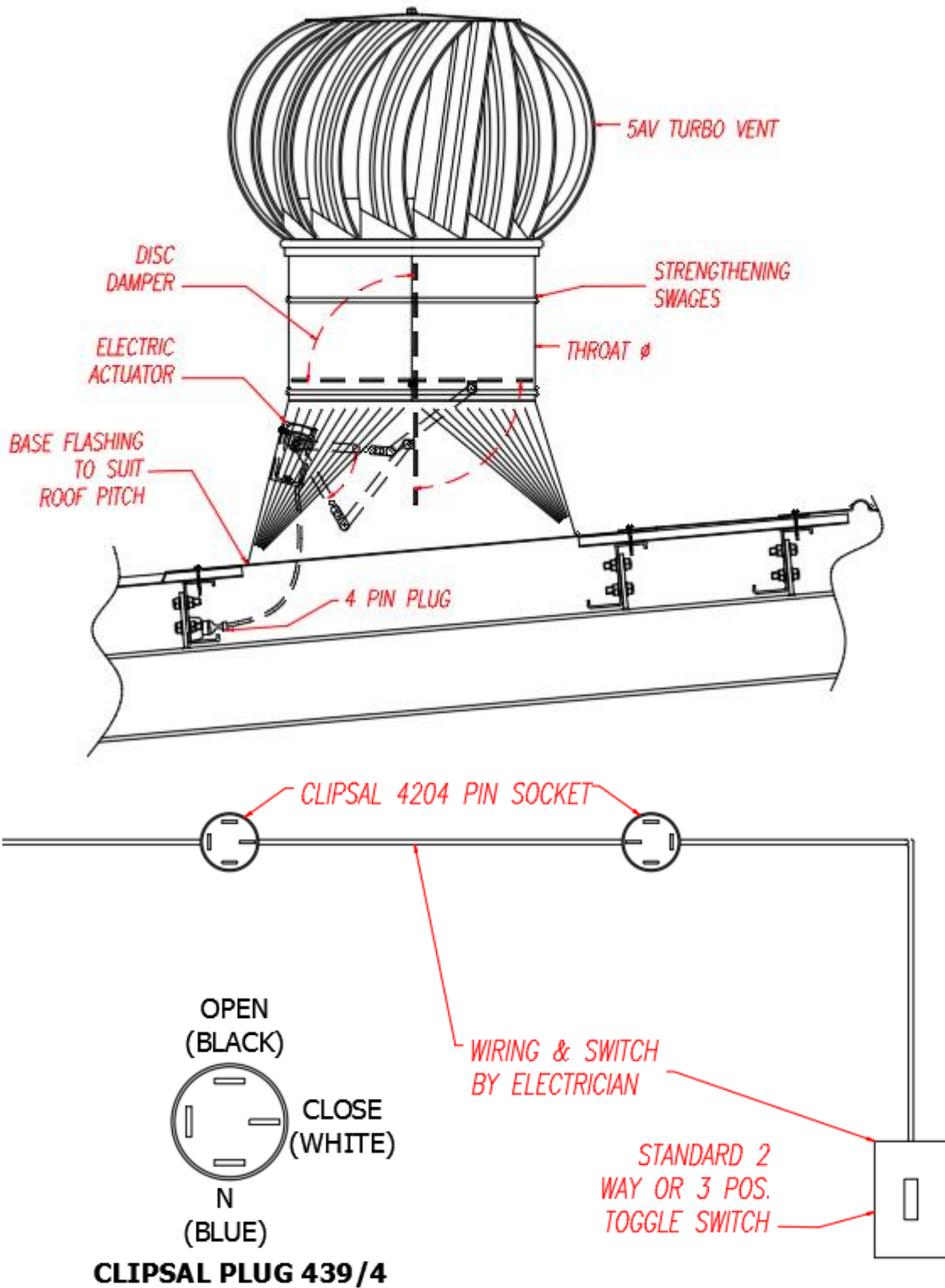


5 SERIES VENTILATOR DAMPER ACTUATOR (IF APPLICABLE)

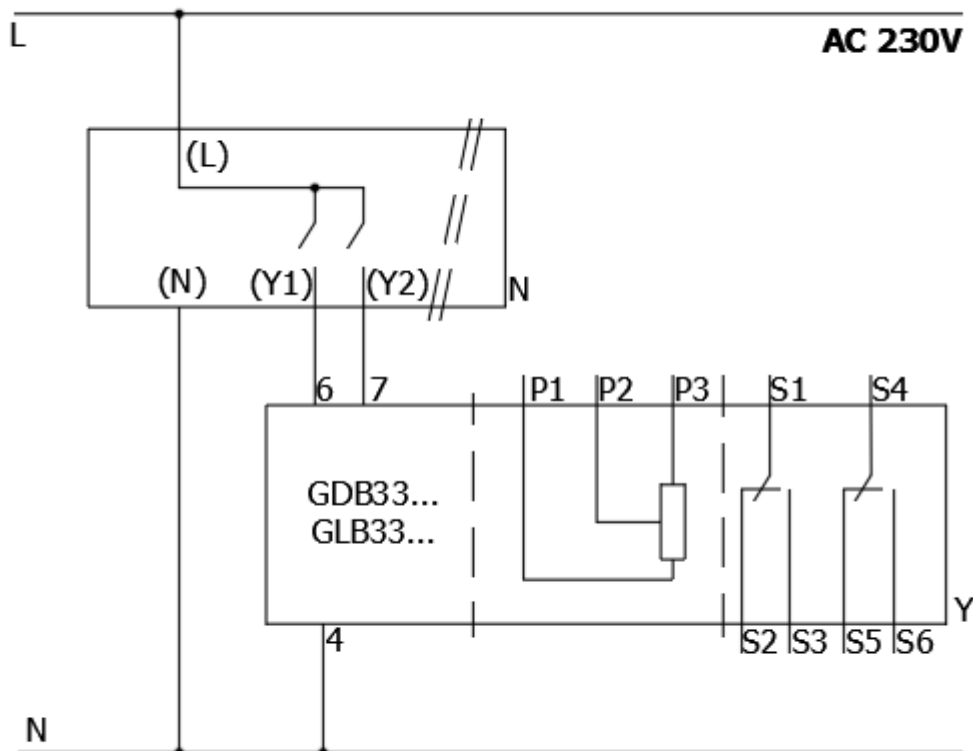
DATA SHEET

The Rotary Air Damper Actuator is for shaft diameters from 8-16mm or square shafts of 6-12mm with a minimum shaft length of 30mm. It has a position indicator, adjustable mechanical limit stop and manual override. The baseplate consists of steel with a plastic housing and a 1.0m connecting cable & 4 pin plug.

TYPE	GDB331.1A / LM230A
TORQUE	5 Nm
AIR DAMPER AREA	max. 0.8m ²
ANGULAR ROTATION	90°
RUNNING TIME FOR 90°	150 s
DEGREE OF PROTECTION	IP 54
DIMENSIONS (W x H x D)	68mm x 137mm x 59.5mm
OPERATING VOLTAGE	AC 230V
CONTROL SIGNAL	3-position
P_N [VA]	2



WIRING DIAGRAM



N - REGULATOR OR CONTROLLER
 Y - ACTUATOR, 3-POSITION: AC 230V
 L - PHASE CONDUCTOR: AC 230V
 N - NEUTRAL CONDUCTOR

MAINTENANCE REQUIREMENTS

5 SERIES - Ventilator

General Description

The Airocle 5 Series Ventilators with their rotating heads provides effective and efficient natural air ventilation of hot and/or contaminated air. The spherical designed head provides protection from back-drafting and the design has been tested by the CSIRO to relevant Australian Standards and engineered and made from Australian material. Careful balance and alignment assures quiet and vibration-free operation. 5 Series Ventilators are efficient as well as aesthetically and psychologically appealing due to their effortless spinning motion.

Inspection Requirements for both Static and Operable Ventilators

An inspection of the 5 Series Ventilator should occur every six months or a shorter interval should be used in marine or other corrosive environments and areas where atmospheric fallout occurs. The inspection should cover, where applicable, the following;

- Check vents for damage, wear, corrosion or residue build up.
- Check the ventilator head is rotating freely.
- Check and ensure that the vents and all components such as pulleys, hinges, latches, cables, struts, etc., are free from obstruction and capable of operation.
- Check guides, bearings, springs and hinges are well lubricated.
- Check actuators
- Check battery dates and capacities
- Check drain holes and internal drain channels are clear.
- Check ram dust covers are in place.
- Check for any mesh or bird wire damage.
- Check for any damage to sealant used.
- Any filters should be regularly checked for particle build up and cleaned every 6 months.

Cleaning Requirements for both Static and Operable Ventilators

Cleaning should be carried out every 6 months using the following procedure:

- Cold water hose down of surface dirt to the inclination surfaces
- Warm soapy detergent wash over all surfaces
- Clean cold water hose down
- Allow to air dry (do not allow to air dry before rinsing off the detergent)

The above process must be carried out at least once every 6 months. Should the Ventilators be 500 metres or less from salt water environment then the process should be carried out at least once every 3 months.

Please Note: If ventilators are used for Fire/Heat and Smoke ventilation, the goods must be serviced and maintained according to AS1851 every six months by a competent person. This is an essential Australian Standard compliance requirement. This will involve additional requirements to the above.

All service/maintenance must be carried out by an authorised technician and service records kept. Failure to do so may void your warranty.

For all necessary repairs call Airocle on 1800 805 062

15 Redbank Place
PO BOX 583 PICTON NSW 2571
service@airocle.com.au

WARRANTY

1) Subject to the conditions and limitations set out below IVR Group Pty Ltd T/As Airocle warrants that:

- I. The 5 Series head and base assembly shall be free from defects in material and workmanship under normal use for a period of **20 years** from the date of delivery.
- II. The head and base assembly of a 5 Series ventilator that is fitted with fans shall be free from defects in material and workmanship under normal use for a period of **5 years** from the date of delivery.
- III. Any Electric/Pneumatic Actuator, Fans, Struts, Control Panels, Batteries, Latches or Catches that may be supplied with the Product(s) will be free from defect in material and workmanship for a period of 12 months from the date of delivery.
- IV. Any dampers, bearings or moving parts that may be supplied with the Product(s) will be free from defect in material and workmanship for a period of 2 Years from the date of delivery.
- V. Any paint finish that may be applied to the Product(s) will be free from defect in material and workmanship and for a period of 5 Years from the date of delivery will not:
 - a) Peel, crack, flake or blister
 - b) Fade or change colour so as to give delta E CIE laboratory readings greater than 10 units from its original colour.
- VI. No warranty as to fitness for purpose is given by IVR Group Pty Ltd T/As Airocle except as set out in this warranty.

CONDITIONS AND EXCLUSIONS

- 2) This warranty only applies if:
 - I. the Product(s) are installed and maintained strictly in accordance with the relevant IVR Group Pty Ltd T/As Airocle installation and maintenance requirements; and
 - II. the Product(s) are maintained strictly in accordance with any relevant Australian Building Codes and Standards; and
 - III. the Products(s) are used in an application designed and constructed in strict compliance with all relevant provisions of the current Building Code of Australia and applicable Regulations and Standards; and
 - IV. IVR Group Pty Ltd T/As Airocle is given reasonable opportunity to inspect any allegedly defective Product(s) where they are installed and before any attempt is made to remove or repair them; and
 - V. the requirements for bringing a claim under the warranty are complied with.
- 3) Without limiting any other terms of this warranty, this warranty does not cover and IVR Group Pty Ltd T/As Airocle will not be liable for damage or defects which are not due to defective factory workmanship or materials including but not limited to damage or defects caused by or arising from or in any way attributable to:
 - I. use of the Product(s) in applications not recommended by IVR Group Pty Ltd T/As Airocle; or
 - II. use of the Product(s) in environments not revealed to IVR Group Pty Ltd T/As Airocle at the time of quotation; or
 - III. use of the Product(s) in conditions exceeding IVR Group Pty Ltd T/As Airocle's published product performance data; or
 - IV. poor workmanship or installation, poor design or detailing, settlement or structural movement of materials to which the Product(s) are attached, incorrect design of the structure, vandalism, acts of God including but not limited to earthquakes, cyclones, floods or other severe weather conditions or unusual climatic conditions, normal wear and tear, growth of mould, mildew or fungi or any development of rust caused by rust on adjoining surfaces on any Product(s) surfaces (whether exposed or unexposed surfaces); or
 - V. the defect is caused by the use of material parts or accessory products that are not supplied, recommended or approved by IVR Group Pty Ltd T/As Airocle; or
 - VI. damage cause by alteration to the Product(s) or servicing by a person other than an IVR Group Pty Ltd T/As Airocle approved Service Contractor.
- 4) This warranty will terminate immediately if and when an IVR Group Pty Ltd T/As Airocle Product(s) is subject to fire situations or exposed to extended periods of excessive heat.
- 5) Subject to clause 9:
 - I. All warranties, conditions, liabilities and obligations other than those specified in this warranty, and which may otherwise apply in respect of the purchase of the Product(s), are excluded to the fullest extent allowed by law.
 - II. To the extent possible at law IVR Group Pty Ltd T/As Airocle excludes all liability for any loss or damage (whether direct or indirect) including property damage or personal injury, consequential loss, economic loss or loss of profits, arising from the purchase of the Product(s) whether arising in contract, tort (including negligence), statute or equity.
 - III. If, or to the extent that it is not permitted at law to exclude any warranties, conditions, liabilities or obligations or to limit or
 - IV. exclude liability arising from the breach of any such warranties, conditions, liabilities or obligations or the purchase of the Product(s). IVR Group Pty Ltd T/As Airocle's liability is limited to the maximum extent permitted at law including but not limited to, where so permitted at IVR Group Pty Ltd T/As Airocle's option:
 - a) the replacement of the Product(s) or the supply of equivalent Product(s); or
 - b) the repair of the Product(s); or
 - c) the payment of the cost of replacing the Product(s) or of acquiring equivalent goods; or
 - d) the payment of the cost of having the Product(s) repaired.
 - V. IVR Group Pty Ltd T/As Airocle will not be liable for the cost to remove the Product(s) and its reinstallation unless an IVR Group Pty Ltd T/As Airocle authorised installer was used or the original installation costs were part of the original purchase invoice from IVR Group Pty Ltd T/As Airocle.

MAKING A CLAIM UNDER THE WARRANTY

- 7) To make a claim under this warranty, a person must provide proof of purchase of the Product(s) and maintenance records and make a written claim to IVR Group Pty Ltd T/As Airocle at the address below, either within 30 days after the defect would have become reasonably apparent or, if the defect would have been reasonably apparent prior to installation, prior to installation.
- 8) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product(s) and therefore to this warranty, all expenses incurred as a result of claiming under this warranty are to be borne by the claimant.
- 9) In the circumstances where the Australian Consumer Law does apply in respect of the purchase of the Product(s) and therefore to this warranty, if IVR Group Pty Ltd T/As Airocle accepts or is determined by IVR Group Pty Ltd T/As Airocle that the claimant has a valid claim under this warranty, IVR Group Pty Ltd T/As Airocle will bear the claimant's reasonable costs of claiming under this warranty. The claimant is responsible for all other costs of claiming under this warranty. All claims for such costs are to be notified to IVR Group Pty Ltd T/As Airocle at the address below within 21 days from when the claimant first makes the warranty claim under this warranty.
- 10) If you wish to make a claim under this warranty, please contact IVR Group Pty Ltd T/As Airocle on 1800 805 062 or email IVR Group via our website or write to IVR Group Pty Ltd T/As Airocle, PO Box 583, Picton NSW 2571.

IMPORTANT NOTICE

- 11) If you acquire goods manufactured by IVR Group Pty Ltd T/As Airocle as a consumer according to the Australian Consumer Law, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

DISCLAIMERS

The information contained in this instruction has been provided with every effort having been made to ensure accuracy and completeness. However, many of the statements contained in the guide are of a general nature and no guarantee is given, nor responsibility taken by Airocle for errors or omissions and Airocle does not accept responsibility in respect of any information or advice given in relation to or as a consequence of anything contained herein. Users should seek their own independent advice as to the suitability of the products and materials for their particular circumstances. As Airocle are committed to ongoing product development, all dimensions, designs, specifications, descriptions, text results and exhaust capacities represented in the Instruction are subject to change without prior written notice.

Clients are free to report to Airocle any errors, ambiguities and omissions in the manufacturer's recommendations and specifications for correction and clarification.