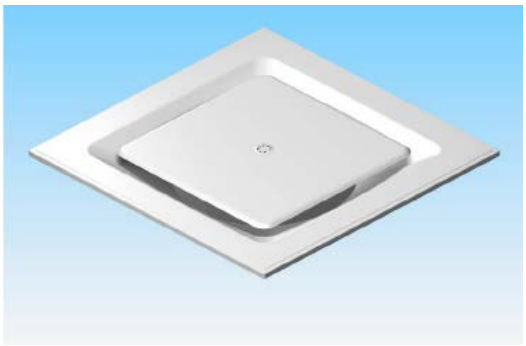
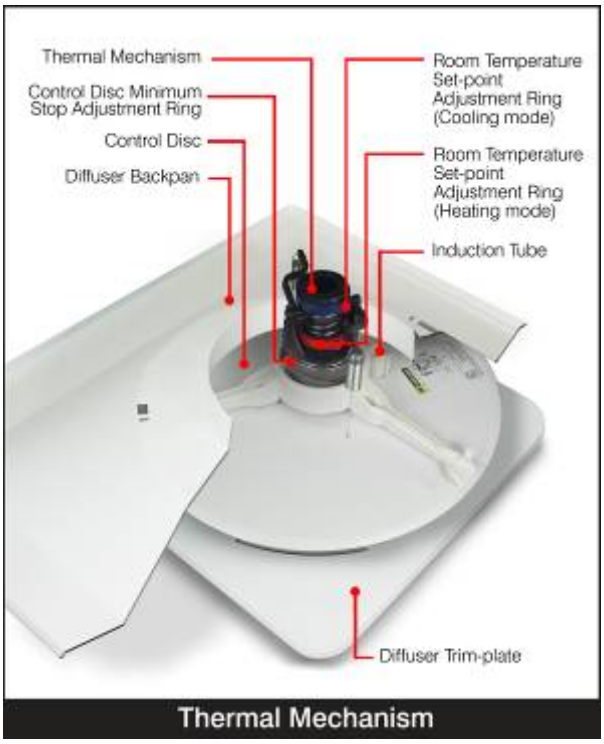
Thermo-Disc Mechanically Controlled Variable Air Volume Ceiling Diffuser

INSTALLATION & MAINTENANCE INSTRUCTIONS

Introduction

The Rickard Thermo-Disc ceiling diffuser is a mechanically controlled, thermally powered VAV diffuser that requires no wall mounted thermostat but contains an inbuilt temperature sensing & volume control mechanism.





Installation and Access

1. Installation of this product should be carried out by appropriately qualified persons.

2. The Thermal diffuser can be mounted in:
   - Drop-in exposed tee ceilings
   - Plastered ceilings
   - Baffled ceilings



Some installations may require a T-frame (shown above) which is an optional extra.

3. Connect the flexible duct to the inlet and place the diffuser onto the ceiling tee bars or fix it to the ceiling using a concealed fixing method and **remove plastic shipping tab from rear of diffuser**.

4. To access the inside of the diffuser from below, unclip the trim from the tile by rotating the trim plate anti-clockwise from below. The trim plate with the actuator and control disc mounted on it may then be accessed and will hang from the safety wire while adjustments are made.

Note: To protect the diffuser from dust and scratches, it is often beneficial to install the diffuser without removing it from the plastic bag. The bag may then be cut away when all building work is complete.

Setup and Adjustment

1. For commissioning purposes, the actuator should initially be set to 22°C. It is strongly recommended that no adjustments be made until the air-conditioning system is fully operational.

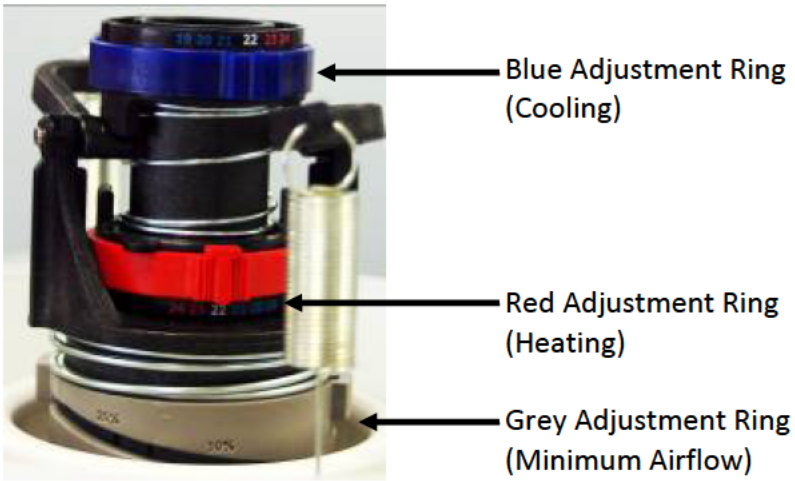
2. Once this is done, should a warmer or cooler room temperature be required, the set point can be easily adjusted by first unclipping the diffuser trim plate. Allow the trim plate to swing down from its safety wire to expose the thermal mechanism. Turn the Blue adjustment ring to the desired set point for when cool air is being supplied and turn the Red ring for when hot air is being supplied. The actuator will automatically be in cooling mode when supply air is below 20°C and in heating mode above 29°C. Hence supply temperatures between 20-29°C should be avoided.

3. To adjust the required minimum air flow position between 0% and 30% of the maximum air flow simply rotate the grey minimum air adjustment ring to align the indicated percentage flow. Ensure the minimum air flow position is supported by the duct system.

4. For system commissioning purposes the diffuser can be opened to full flow by simply unhooking the control disc from the actuator lever arms, then reconnecting them after this is completed.

5. Return the trim plate to its original position and rotate it clockwise (perspective from below the diffuser) to engage the sub-assembly fixture.

6. **CAUTION:** Do not force the diffuser open by pulling the control disc down or pressing the lever arms down. This will damage the actuator.



Maintenance

The Rickard Thermal diffuser requires no routine preventative maintenance. Any dust on the face of the diffuser can be removed with a damp cloth and mild detergent.

GOODS AND WARRANTY

1. When supplying goods to a consumer, the following mandated statement applies:
   "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 for 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."

2. The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

3. Subject to the conditions and limitation below, the Company warrants products of its manufacture to be free of defects in workmanship and/or materials at the time of delivery to the Buyer.

4. Any part, assembly or portion thereof found to be defective within one year from the date of commissioning or eighteen (18) months from date of shipment from our factory, whichever is the sooner, unless expressly stated otherwise in the Company's Publications or Literature, will be repaired or exchanged F.O.B factory.

5. The Company reserves the right to replace defective parts of the goods with parts and components of similar quality, grade and composition where an identical component is not available.

6. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

7. Goods or parts that have been returned for repair (except where the repair is as a result of the Company's failure to comply with the statutory guarantees in the ACL) or warranty assessment are deemed to have been abandoned by the Buyer if not collected within 30 days after the Company has notified the Buyer in writing of the warranty assessment outcome or the completed repair.

8. The Company reserves the right to dispose or otherwise deal with an abandoned product or part at its discretion.

9. This warranty does not apply if:
   (i) the goods have not been paid for by the Buyer as per the credit terms provided; or
   (ii) the goods have not been installed in accordance with AS NZS 3000/2000 Australian/New Zealand Wiring rules; or
   (iii) the goods have been misused or neglected.

10. The Company assumes no responsibility under this warranty for the labour costs involved in the removal of defective parts, installation of new parts or service charges related thereto.

11. If a fault covered by this warranty occurs, the Buyer must first contact the Company at the contact address listed below.

12. Any warranty claim must be accompanied by:
    (i) proof of purchase;
    (ii) written details of the alleged defect; and
    (iii) appropriate documentation (such as installation and maintenance records etc).

13. The Company shall have the option of requiring the return of the defective part (transportation prepaid by the Buyer) to establish the claim.

14. The Company makes no warranties or representations other than set out in this clause 7.

15. The repair or exchange of the goods or part of the goods, is the absolute limit of the Company's liability under this express warranty.

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