

3.0 Installation

Installation must be carried out by competent personnel in accordance with the appropriate authority and conforming to all statutory governing regulations.

Installation as a supply valve:

- Cut a 145mm Dia. hole in the ceiling where the valve is to be situated
- Line up on main body and fit damper to main body (see fig 5)
- Position main body/damper into the hole and mark the fixing position (see fig 5)
- Remove damper, fit ducting to main body and screw to ceiling (see fig 6)
- **See important note and fig 7 re fixing within 1 metre of a wall**
- If required fit Airflow screen to flow disk (fig 7)
- Fit damper assembly to main body by aligning the triangle symbols, then press together and twist damper assembly clockwise, (you will hear a click when damper is in a 'locked' position. (see fig 8)
- Once all valves are in position they can be commissioned using the adjustment screw (see fig 9).
- On completion clip decorative panel in place (see fig10).

Fig 5. Fit damper to main body and position in the hole.

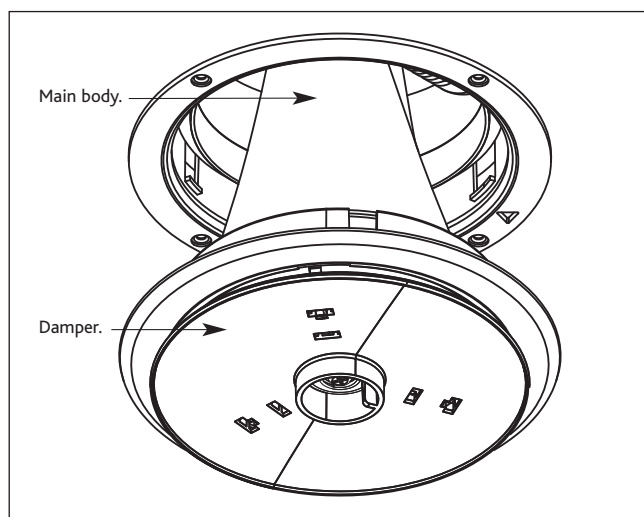
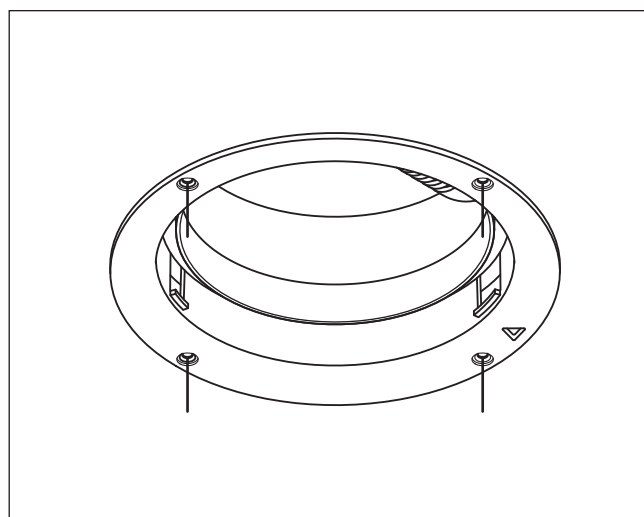


Fig 6. Remove damper, fit ducting to main body and screw to ceiling.



IMPORTANT

If a valve is situated within 1 metre of an obstruction (eg a wall or smoke alarm) then the airflow screen should be fitted to guide the airflow away from the obstruction (see fig 7). This is achieved by fully unscrewing the damper assembly, sliding the airflow screen into place ensuring a positive fit (clicks into place). Once in its locked position re-tighten the fixing screw.

Fig 7. If required fit Airflow screen to flow disk.

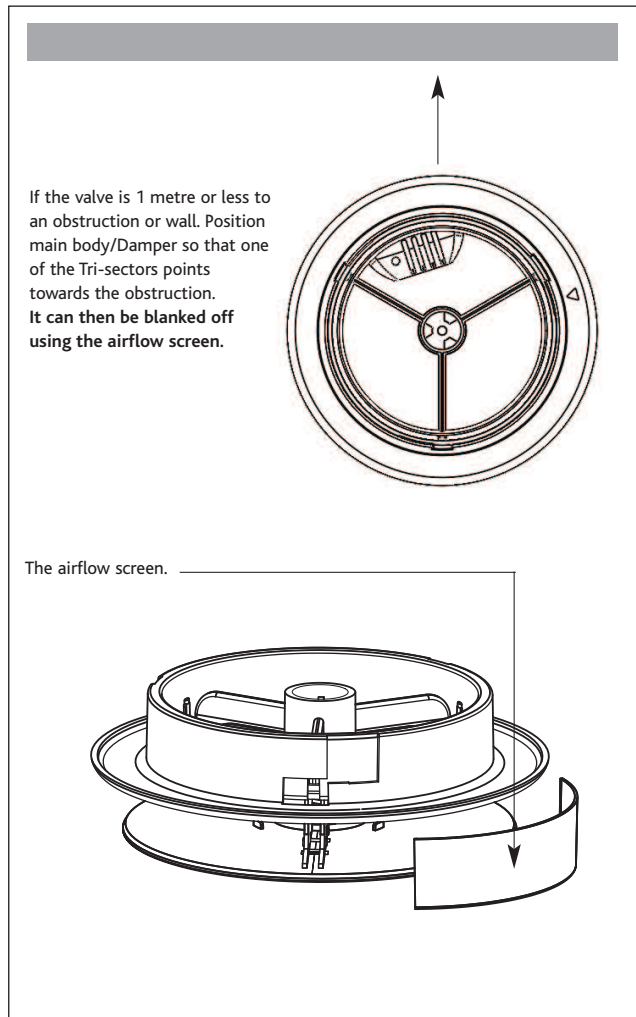
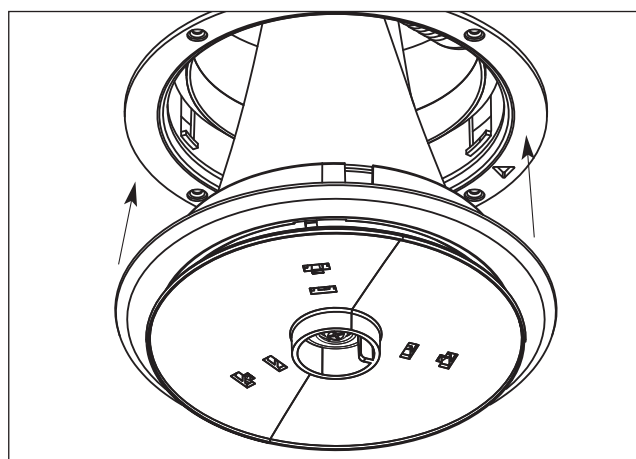


Fig 8. Fit damper assembly to main body by aligning the triangle symbols, then press together and twist damper assembly clockwise, (you will hear a click when damper assembly is in a 'locked' position.



3.0 Installation cont.

Fig 9. Once all valves are in position they can be commissioned using the adjustment screw. The gap between the airflow disk and the main body determines the airflow that can pass through the valve. This gap can be adjusted using the screw on the underside of the flow disk (**clockwise to reduce the gap and flow**), (**anti-clockwise to increase the gap and flow**).

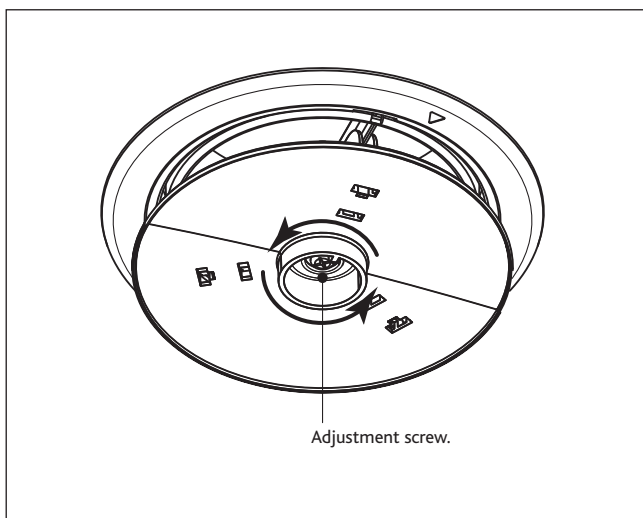
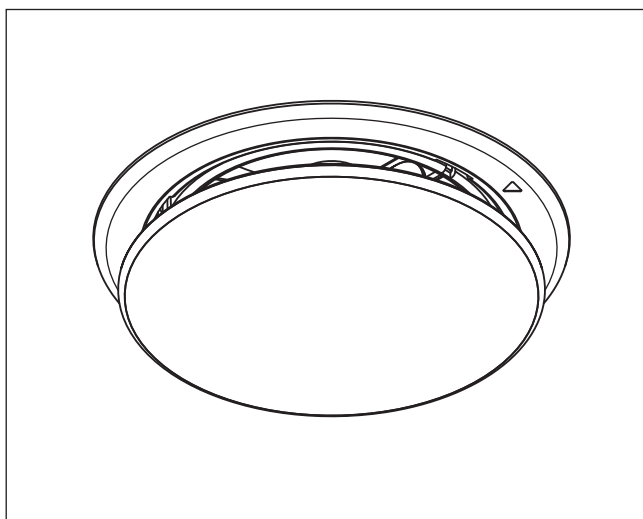


Fig 10. Once the airflow is set, fit the decorative facia panel onto the airflow disk.



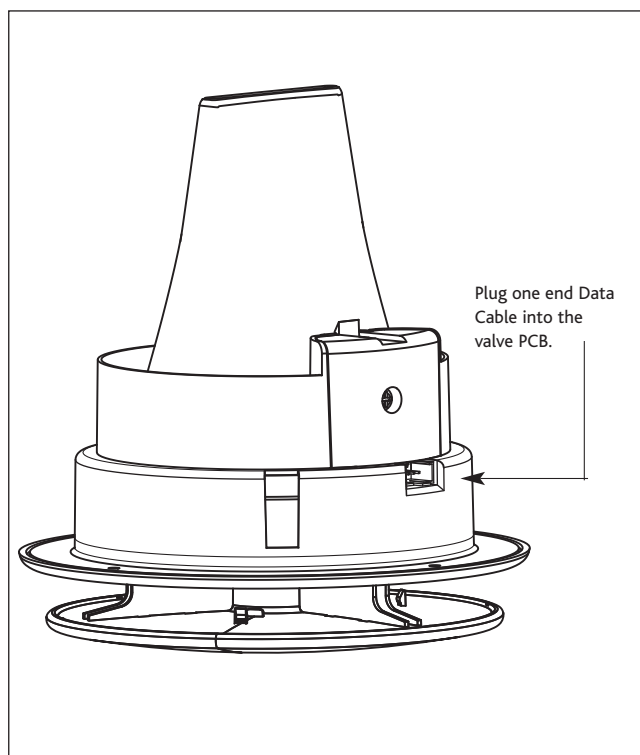
4.0 Connecting the Q-AIRE-EV125FH to a Nuaire MVHR or MEV fan Unit

The Q-AIRE-EV125FH Extract Valve comes with an inbuilt humidity sensor which simply uses the Ecosmart SELV cable to connect back to a Nuaire Ecosmart fan unit. This is available where the specification calls for room mounted humidity sensors (See section 5.0).

IMPORTANT

The plastic male plug has moulded 'tabs' or protrusions on one side to match and lock it to the board mounted socket thereby ensuring that correct electrical connection is made, so its imperative that the cables are offered to the right side of the plug in precisely the right sequence. Do not force the plug in to the socket.

Fig 11. Using the Data Cable supplied, plug one end into the valve PCB.



- A 10m data cable is supplied with the valve, with other lengths available. Please see Guidance Notes 5, enclosed with data cable for more details.
- Route the cable back to the fan unit, ensuring that it is separated from mains voltage carrying cables. **Ensure there is at least a 50mm separation between data and mains carrying cables**
- If data and mains cables have to be crossed be sure that they cross at 90° to each other
- Plug the opposite end of the cable into your Nuaire fan unit (Unit must be isolated) following the fan units Installation and Maintenance Guide.
- Further information can be found in the Guidance Notes 5 enclosed with the data cable.

5.0 Adjusting the Q-AIRE-EV125FH Humidity Sensor

Adjusting the sensor set points - Adjustable RH setting 65 - 85%
 Assuming the Valve(s) are installed, adjustment of the RH set points are achieved by removing the damper assembly (see fig 9). To expose the humidistat location (fig 12).

Fig 12. Humidistat location.

Using a small screwdriver, gently turn the adjustment dial either clockwise or anti-clockwise to increase or decrease the set point.

No of times LED flashes	%RH (Tens)	No of time LED flashes (After a small pause)	%RH (Units)
6	60 %	0	0 %
7	70 %	1	1 %
8	80 %	2	2 %
		3	3 %
		4	4 %
		5	5 %
		6	6 %
		7	7 %
		8	8 %
		9	9 %

Minimum RH Setting = 65% RH. Maximum RH Setting = 85% RH

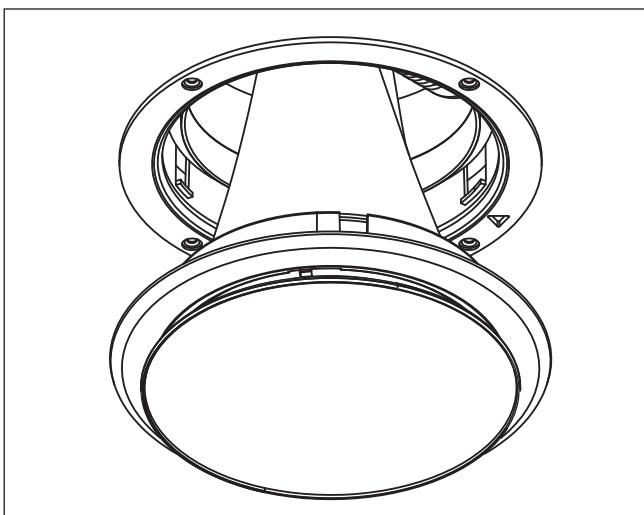
When adjustments are made to the sensor, the Indication LED light on the sensor will flash on and off to show the set point. First, flashes will indicate the set point in TENS, then after a short pause the LED flashes will indicate UNITS.

For example seven flashes and three flashes show a RH set point of 73% (shown in the lookup table on the right).

6.0 Maintenance

The filter can be changed quickly by simply removing the damper assembly, and then the filter. Having re-placed the filter, the damper assembly is the simply re-positioned without any adjustment of the commissioned set point taking place.

Fig 13. Remove the damper assembly to change the filter.



7.0 Replacement of Parts

Should any part need replacing, Nuair keep extensive stocks for quick delivery. When ordering spare parts, please quote the product code.

Filter Part Number: Q-AIRE-FILTER KIT

8.0 Warranty

The 5 year warranty starts from the day of delivery and includes parts and labour for the first year and parts only for the remaining 4 years.

This warranty is void if the equipment is modified without authorisation, is incorrectly applied, misused, disassembled, or not installed, commissioned and maintained in accordance with the details contained in this manual and general good practice.

9.0 Service Enquiries

Nuair can assist you in all aspects of service. Our Technical Support department will be happy to provide any assistance required.

**Technical Support
on 029 2085 8400**

10.0 Dimensions (mm)

Fig 14. Side view.

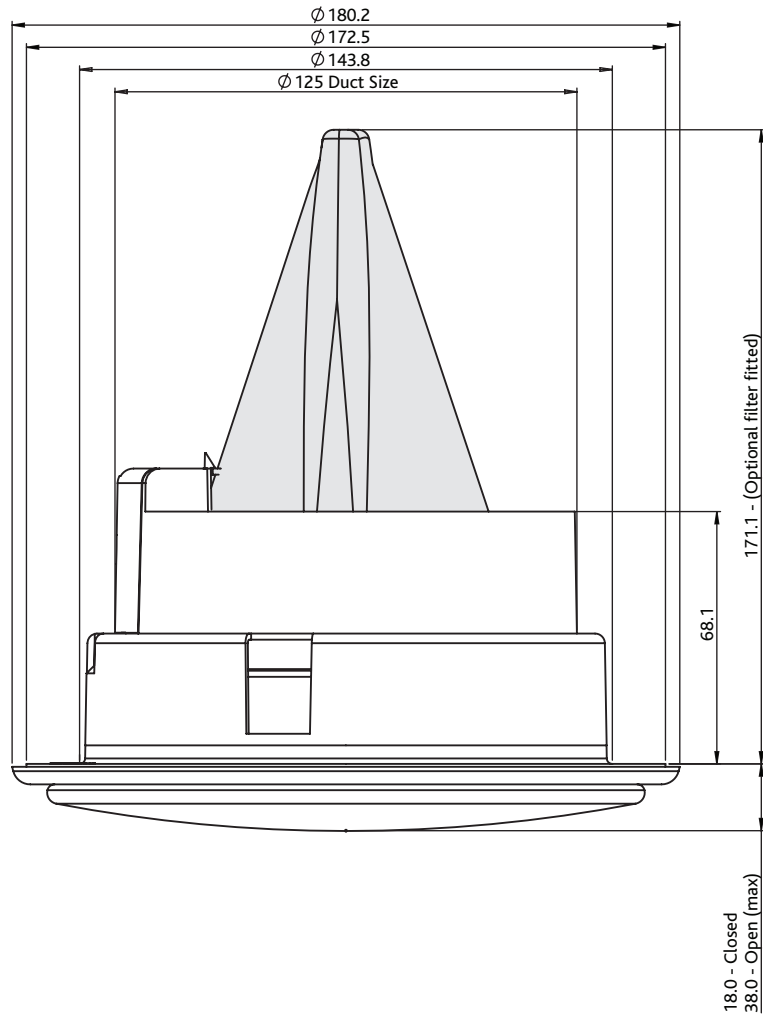


Fig 15. Top view.

