



# Constant Pressure Motorised Grille Damper Type NRG

## Installation and Maintenance

### Introduction

The motorised damper is manufactured from ABS plastic and designed for installation with NUAIRE's range of Ecosmart Constant Pressure Variable Volume extract fans.

The NRG incorporates a damper that is motorised upon activation/deactivation of the integral PIR.

Principle features are:

- **Integrated PIR with pre set nominal fifteen minute overrun timer**
- **12V operating via a 12/230V transformer supplied as standard.**
- **The damper is 'pegged' so as to prevent full closure, thereby ensuring continuous trickle ventilation when the constant pressure fan is operating**
- **There are four fully open positions to be manually set at the required boost ventilation rate at commissioning stage.**

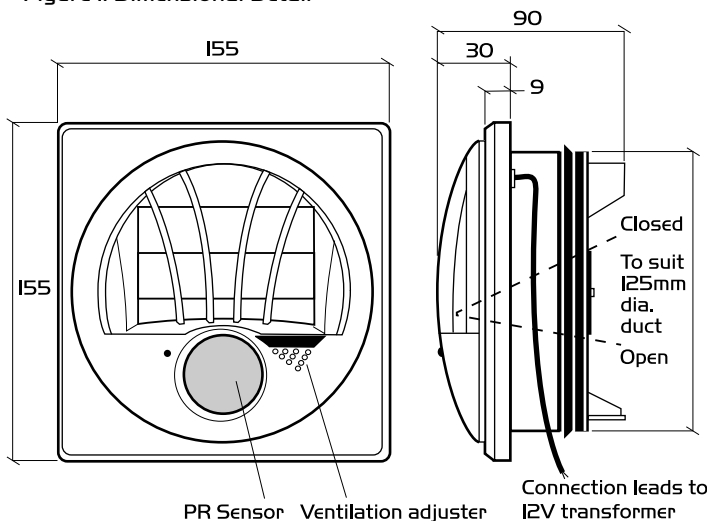
### Handling

Handle the unit with care to avoid damage and distortion to moving parts.

### Installation

The installation must be carried out by suitably qualified and competent personnel in accordance with appropriate authority and in conformance with all statutory and governing regulations i.e. IEE CIBSE COHSE HVCA etc.

Figure 1. Dimensional Detail

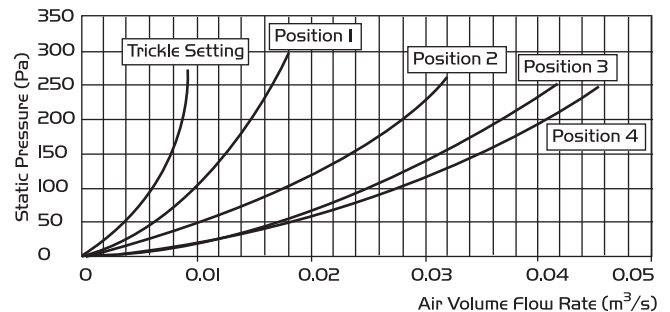


### Mechanical Installation

The grille is suitable for internal installation only, mounting in any attitude and can be installed within the splash zone. The grille has a 125mm diameter discharge spigot and is a 'push fit' to corresponding ductwork, its held in position by the compression seal attached to the spigot.

Before offering to the ductwork complete the electrical connection.

Figure 2. Performance Detail



### Acoustic Information

Lw	Position 1	Position 2	Position 3	Position 4
70Pa	25.1	21.6	-	23
100Pa	30	30.3	32.2	33.3
130Pa	33.5	32.8	36	37.1
150Pa	37.1	37.3	-	38.6

### Electrical Installation

Position the transformer in the ceiling or service void allowing for future access, connect to a 230V supply via a spur fused at 1A. Connect the 12V transformer output to the connection leads of the grille.

Figure 3. Wiring detail

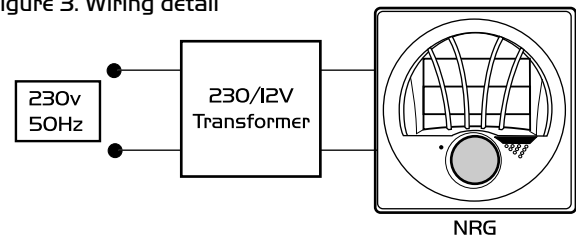
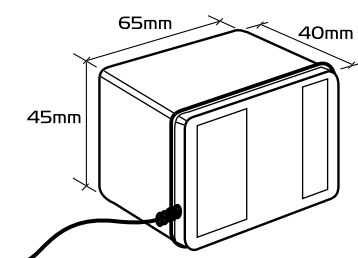


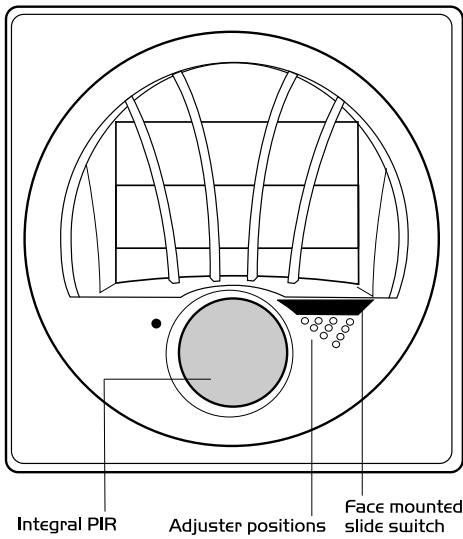
Figure 4. Transformer dimensions



## Setting To Work

The trickle ventilation rate is pre set and not adjustable, take care not to disturb the setting peg.

Figure 5. Face mounted slide switch



Boost ventilation rate is set by adjusting the face mounted slide switch to one of the four positions as signified by the dots below the slider i.e. one dot minimum, four dots maximum etc. (See figure 5). The damper is activated by the integral PIR and when activated the face mounted LED will show green.

For system commissioning advice refer to leaflet number 671238.

## PIR Field of Detection

Figure 6. Ceiling Mounted

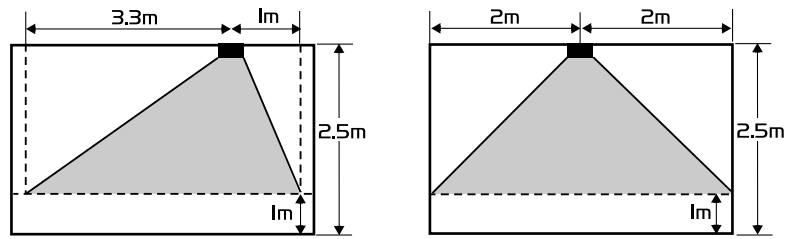
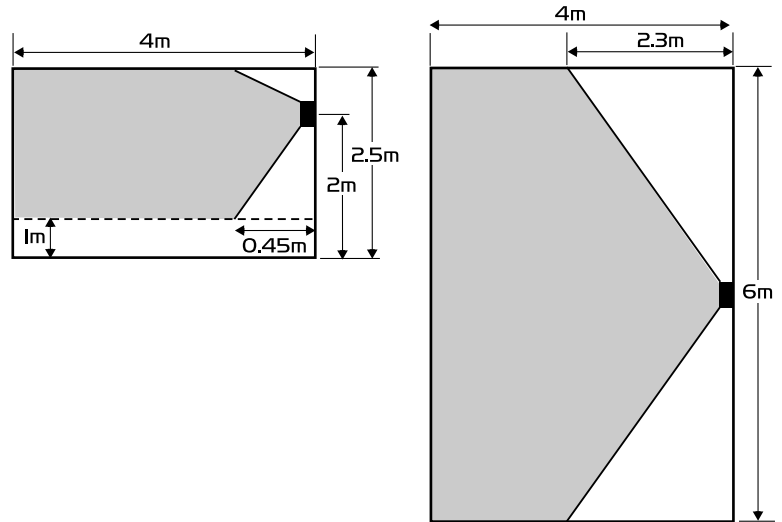


Figure 7. Wall Mounted



## Maintenance

Maintenance intervals will vary according to the level of airborne contaminant to which the grille is exposed; check three months after commissioning and twelve monthly thereafter.

There are no parts requiring lubrication.

Remove the inlet grille simply by pulling it outwards, remove all loose dust and dirt with a fine brush taking care not to disturb the trickle vent peg. Use only a mild detergent on a damp cloth to remove stubborn dirt.

## Spares

There are no recommended spares, should the product malfunction then it will require total replacement.

## Warranty

The product carries a 5 year warranty, the first year parts and labour and the remaining period parts only, commensurate from the date of delivery.

## Service Enquiries

NUAIRE can assist in all aspects of service, call:

**Telephone 029 2085 8585**  
**Fax 029 2085 8586**

Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such changes without prior notice.