

Constant Pressure

Variable Volume Inline Dampers with adjustable Run on Timer NRG-ILTIM/NRG-IL I25TIM/NRG-IL I50TIM/NRG-IL200TIM

Installation and Maintenance



ecosmart

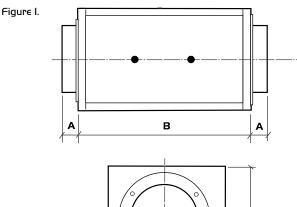
Introduction

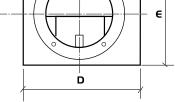
The four motorised inline damper models with run on timers are designed for installation with Nuaire's range of Ecosmart Constant Pressure Variable Volume extract fans.

The units incorporate a fixed damper to set the trickle ventilation flow rate and a wax type 230v driven actuator to increase the flow rate to boost on demand.

Units are rectangular in section, manufactured from pre-galvanised steel and designed to match duct sizes of IOOmm, I25mm, I50mm and 200mm.

Dimensions





Dimensions in mm.

NRG-ILTIM 50 200 100 120 120 NRG-ILI25TIM 50 300 125 178 178	it
NRG-ILI25TIM 50 300 125 178 178	IG-ILTIM
	KG-ILI25TIM
NRG-ILISOTIM 50 300 I50 I78 I78	G-ILISOTIM
NRG-IL200TIM 50 400 200 225 225	IL200TIM

Handling

Handle the units carefully to avoid damage and distortion to moving parts.

Performance Detail

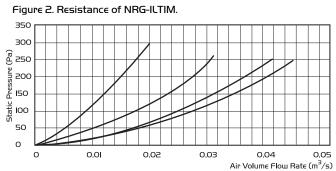
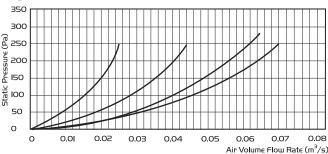


Figure 3. Resistance of NRG-ILI25TIM.





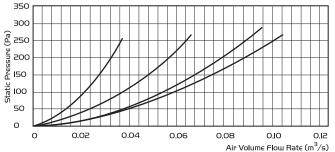
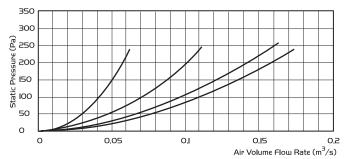


Figure 5. Resistance of NRG-IL200TIM.



Acoustic information

Lw	Position I	Position 2	Position 3	Position 4
70Pa	25.1	21.6	-	23
IOOPa	30	30.3	32.2	33.3
130Pa	33.5	32.8	36	37.1
I50Pa	37.1	37.3	-	38.6

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Installation

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

Mechanical installation

The unit can be mounted in any attitude giving due consideration to the accessibility of the access door to complete the electrical connection, set up the damper during commissioning and future maintenance.

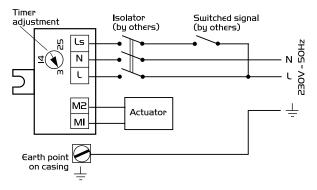
A full size access panel is fitted to one side to facilitate electrical connection and damper setting.

The unit should be coupled directly to ductwork of matching spigot diameter and installed behind a ceiling or in a service void and remote from any areas from which it could be subjected to water spray.

Electrical installation

The damper is activated by a 23OV mains signal, this signal can be derived from any switching source i.e. light switch, mains PIR, mains rated thermostat, humidistat etc. Offer the mains cable via the cable grommet provided connecting Live (L), Neutral (N) and Earth (E) to the appropriate terminals.

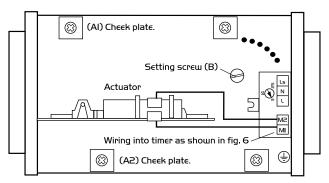
Figure 6. Third party switching to provide SL signal.



Setting the dampers

Trickle ventilation; minimum trickle rate is pre set by the free area cut around the motorised damper. To increase the trickle ventilation rate remove one of motorised damper cheek plates (AI), to further increase the trickle rate remove the second cheek plate (A2).

Figure 7. Unit with access panel removed, showing electrical connection and damper setting positions.



Boost ventilation rate is set by adjusting the setting screw (B), with flow meter connected to duct work and motorised damper activated (by switching on power to unit) adjust the damper position whilst monitoring flow meter until desired boost airflow rate is achieved.

Setting the dampers

The run-on timer is adjustable between 3 and 25 minutes. This will hold the damper in the boost position for the preset period when a switched live signal is removed from the Ls terminal.

Check and adjust the setting as necessary using a small screwdriver.

Maintenance

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

There are no parts requiring lubrication.

Isolate the mains supply, remove the access cover and clean out any dust deposits. Check the security of all components and wire terminations - do not adjust the damper setting screw.

To clean the dampers and internal chamber it will be necessary to remove the unit from the system and access through the inlet/outlet spigots, mark the position of the setting screw (B) and ensure the position is set correctly upon reinstatement.

There are no recommended spares, should the product malfunction then it will require total replacement. Order quoting all the details from the product rating plate.

3 Year Warranty

The 3 year warranty starts from the day of delivery and includes parts and labour for the first year. The remaining 2 years covers replacement parts only.

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.

The product warranty applies to the UK mainland and in accordance with Clause I4 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

After Sales Enquiries

For technical assistance or further product information, including spare parts and replacement components, please contact the After Sales Department.

Telephone 02920 858 400

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.