

# NUAIRE

## Genie/tops-P.I.R

### Toilet & Bathroom Extract Fan surface & semi recessed mounting\*

## Installation and Maintenance

### NUAIRE

Nuaire Limited  
Western Industrial Estate  
Caerphilly, Mid - Glamorgan CF83 1XH  
United Kingdom  
Telephone 02920 885911  
Facsimile No. 02920 887033  
Email: info@nuaire.co.uk

Leaflet No. 670684  
JULY 2001

\* A optional window mounting kit is available for this unit, code ref: **WINKIT**. When installing the unit in a window, use the instructions supplied with the kit.

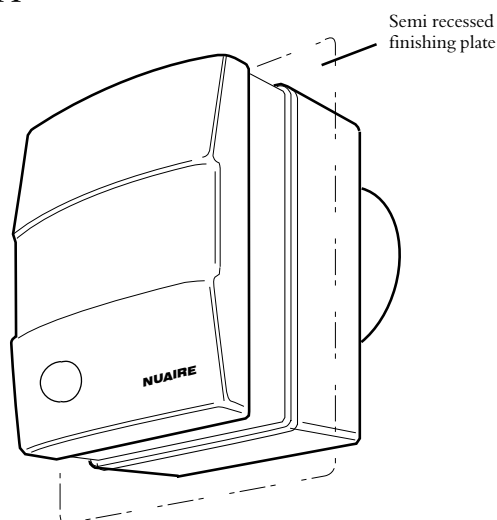


Fig 1. General view.

### Introduction

The Genie / TOPS range of toilet and bathroom units has been specifically designed to ventilate small rooms such as toilets, bathrooms, cloakrooms etc.

Measuring a compact 200mm x 173mm x 120mm the units deliver 25 l/s via a 100mm dia. outlet fitted to the rear face.

Air entering the unit passes through a washable filter fitted to the front cover.

Anti- backdraught shutters, retained in the closed position when fan is not running, are fitted to the base plate.

Motor has sealed, self-lubricating bearings and 'Heatseeker' thermal overload protection.

The fan / motor assembly is retained by spring clips to simplify maintenance.

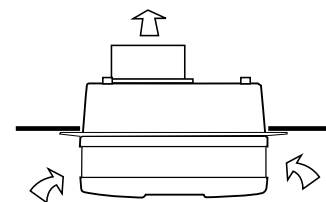
As a safety feature the fan / motor assembly is automatically disconnected when the electronic control module is removed.

All models incorporate a LED run indicator.

The unit is actuated by a passive infra red PIR detector, mounted on the front cover. An integral run on timer is fitted which is adjustable from 0-20 mins run on.

### Typical Installations

Semi - recessed mounted - ceiling



Surface mounted - wall

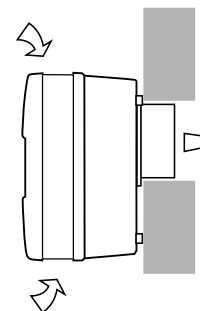


Fig.2 Typical Installations

### Installation

(To be carried out by qualified personnel only)

#### Surface Mounting

Note. It is assumed that a solid non reverberant mounting position has been selected and the necessary passages for ductwork from the outlet spigot, as well as the electrical connection prepared. It is also assumed that compatible ductwork has been installed.

**Isolate the electrical supply by switching off at mains and removing fuses.**

1. Remove cover/grille assembly by depressing the top & bottom retaining tabs.
2. Remove the plug-in electronic control module . (Fig. 4)
3. Remove the fan / motor assembly by pulling aside the two spring clips.
4. Place the unit in the desired mounting position, connect the ductwork and feed the cable through the cable entry.

### Installation (Cont.)

- Secure the unit in position, using three wood screws (No. 6). Note! It may be necessary to drill and plug the mounting surface; it is the responsibility of the installer to select the correct wall plug for the given application.
- Fit the fan assembly to the case, securing it with the two spring clips. Install the electronic control module ensuring that it is fully engaged in the internal socket. Push in the white connector socket into the sensor 'plug'.
- Replace the front cover using two screws supplied (bagged separately).
- Test run the unit. The unit is supplied with the run-on-timer adjusted for maximum (20 minutes) run on. A hole is provided in the electronic module to facilitate adjustment.

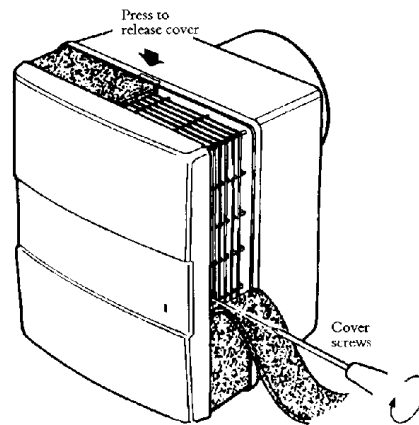


Fig. 3. Removing the front cover. (Note the unit is supplied with the front cover push fitted. Fixing screws are bagged separately with the filter).

### Semi - recessed mounting

#### **IMPORTANT NOTE:**

**Remove the shutters from the spigot if you are mounting the Genie in the ceiling.**

- Prepare an opening 184mm x 213mm. This will allow sufficient clearance (approx. 5 to 10mm) all around the unit to accept the fixing bracket (optional). Note. Do not exceed the quoted dimensions, as an aperture larger than 208mm x 238mm will not be covered by the finishing plate. Again it is assumed that a solid, non - reverberant mounting position has been selected and the necessary passages for ductwork from the outlet spigot as well as the electrical connection prepared. It is also assumed that compatible ductwork is already installed.
- Position the mounting bracket (Fig. 6) in the previously prepared aperture so that the ends of the bracket are flush with the surface of the wall. Secure the bracket with suitable fixings (by others). (Fig. 7).
- Remove the front cover / grille assembly. (Refer to surface mounted version for details).
- Position the finishing plate on the base of the unit. Place unit base and finishing plate in the mounting bracket and feed the supply cable through the casing aperture. Engage the outlet spigot in the ductwork and fix the casing to the bracket using the screws supplied.
- Connect the wiring to the internal terminal block / socket.
- Fit fan module to the base.
- Fit the electronic control module, ensuring that it engages with the internal socket. Push in the white connector socket into the sensor 'plug'.
- Replace the front cover (two screws) and fit the filter (bagged separately).
- Test run the unit.  
Note! If a timer / humidistat option is fitted, the unit may run on for the duration of the timer control sequence when power is initially switched on.  
The unit is supplied with the run-on-timer adjusted for maximum (20 minutes) run-on. A hole is provided in the electronic module to facilitate adjustment.

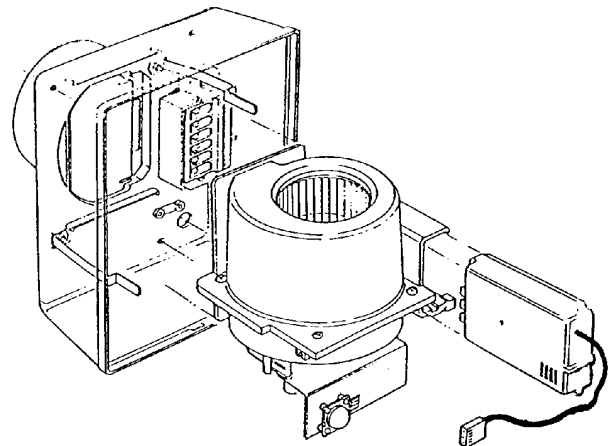


Fig. 4. Electronic control module and Fan/Motor assembly

### Maintenance

(General notes for the 'End User' / Maintenance Engineer).

#### General

A washable filter is fitted to protect the fan/motor assembly from towel lint, talc etc. and to prolong the life of the unit. However, some fine dust may find its way through the filter and, if allowed, will build up on the motor and /or impeller. It is therefore strongly recommended that all units are inspected and cleaned at least once every six months.

#### Isolation

**WHEN CARRYING OUT ANY WORK ON THE UNIT IT IS ESSENTIAL TO ISOLATE IT FROM MAINS SUPPLY.**

#### Procedure

At all times take care not to damage, distort or disturb the balance of the impellers.

Remove the filter and front cover as previously described.

Remove the electronic control module.

Spring aside the two clips and remove the fan module.

Visually inspect all parts, replace any damaged items.

Using a soft brush or dry cloth remove any dust and dirt from the fan module. Stubborn dirt may be removed by careful use of a soft scraper.

Wash front cover in warm soapy water and dry thoroughly. Re-fit fan and electronic control module, replace front cover and secure with screws.

Wash filter in tepid water to which a little mild detergent has been added. Shake out excess water and allow to dry naturally. Replace filter. Refit the retaining screws (fig 3). Test run the unit.

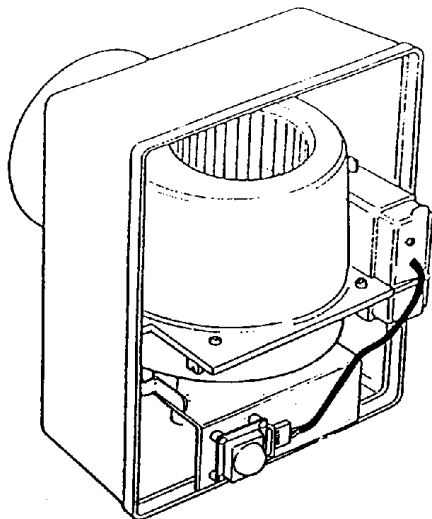


Fig. 5. Internal view of unit.

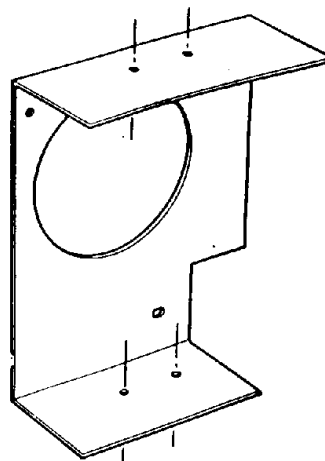


Fig. 6. Mounting bracket for semi-recessed application. (Optional extra order Part No. 770982).

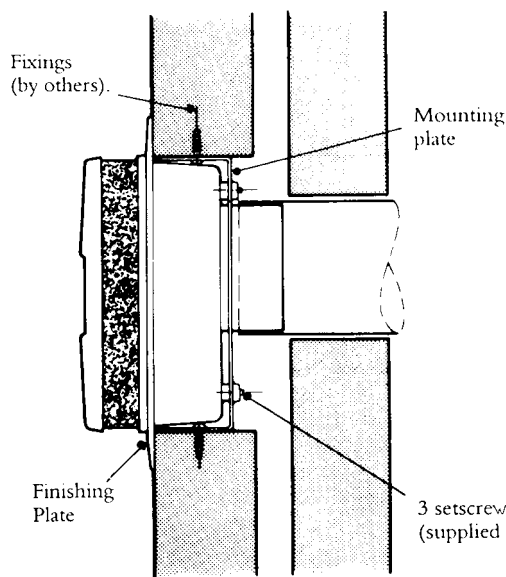
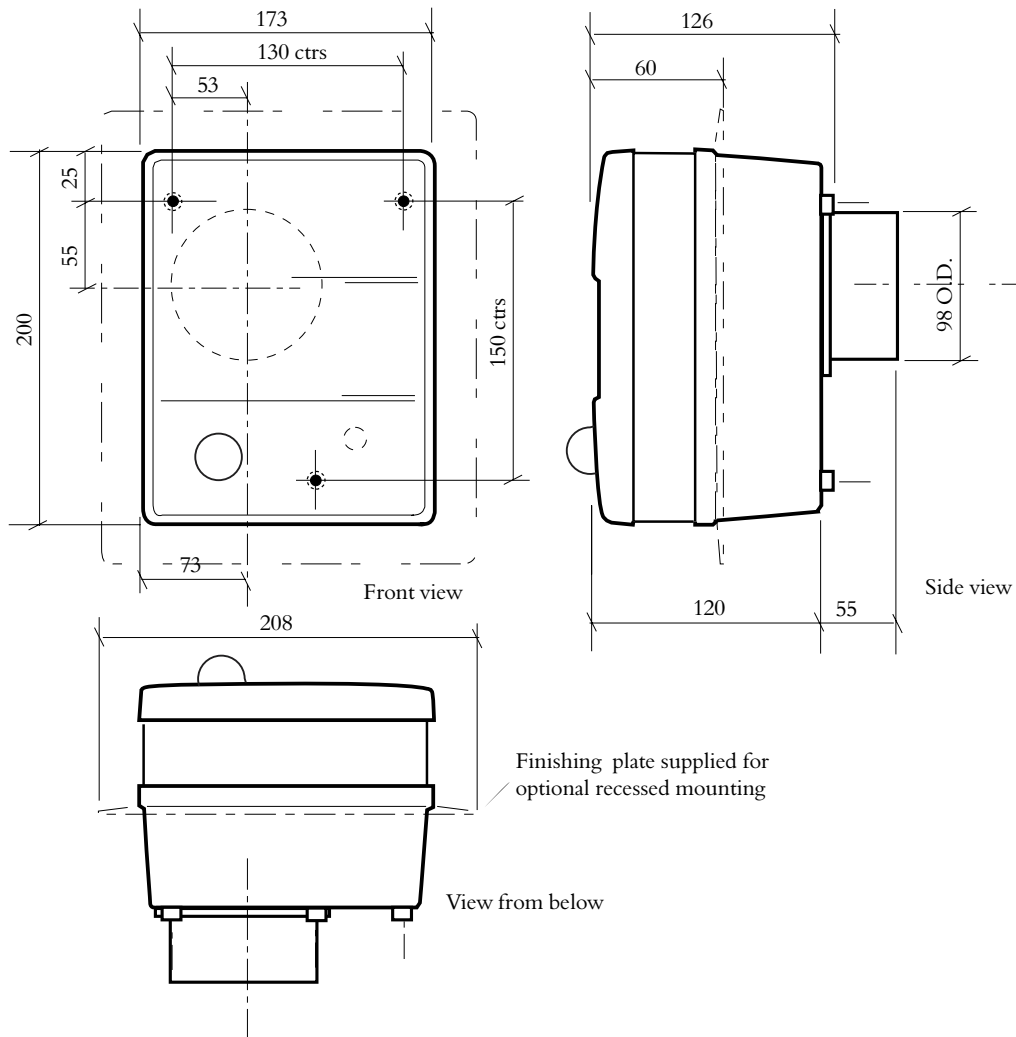


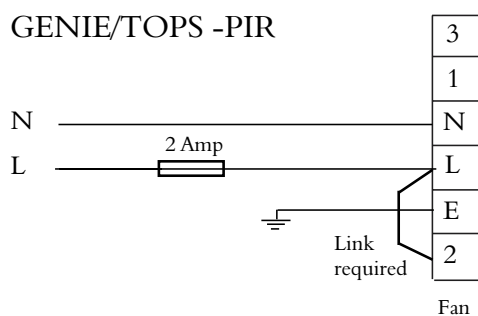
Fig. 7. Mounting details (semi-recessed).

### Dimensions



<b>Power Consumption:</b>	Unit input power (watts)	23.0
	Full load current (amps)	0.170
	Starting Current (amps)	0.215

### Wiring Diagram



# NUAIRE

## CE DECLARATION OF CONFORMITY

NuAire Limited,  
Western Industrial Estate,  
Caerphilly, Mid Glamorgan,  
CF83 1XH. United Kingdom.  
Telephone: 029 2088 5911  
Fax: 029 2088 7033  
Email: info @ nuair.e. co. uk  
www.nuair.e.co.uk

JULY 2000

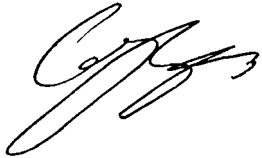

*We declare that the machine named below  
conforms to the requirements of EC Council Directives  
relating to Electromagnetic Compatibility and  
Safety of Electrical Equipment.*

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<b>Designation of machinery :-</b>	GENIE/TOPS
<b>Machinery Types :-</b>	P.I.R. EXTRACT FAN
<b>Relevant EC Council Directives :-</b>	89/336/EEC, 92/31/EEC (EMC) 73/23/EEC, 93/68/EEC (Low Voltage Directive)
<b>Applied Harmonised Standards :-</b>	E50081-1, EN50082-1, EN60204-1 EN60335-2-80
<b>Basis of Self Attestation :-</b>	Quality Assurance to BS EN ISO 9001 BSI Registered Firm Certificate No. FM 149

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**Signature of manufacture representatives :-**

	<b>Name:</b>	<b>Position:</b>	<b>Date:</b>
1)	 C. Biggs	Technical Director	2. 3. 00
2)	 W. Glover	Manufacturing Director	2. 3. 00

## Service

As a manufacturer NuAire provides you with factory trained Service Engineers.

Our Engineers are supported by a comprehensive range of spare parts 'off the shelf.'

If you are an industrial or commercial user, you may be interested in details of NuAire's regular maintenance Service Contracts. This is a worthwhile service that helps you get the most from our products.

Our Service Department will be happy to give you more information.

**Telephone: 029 2085 8585**

## Controls Application Service (CAS)

A team of Engineers and technicians is available to provide pre and post order support.

We are on hand to provide help and advice from the most basic use of any NuAire equipment to the more complex applications, maximising on the versatility of our control products.

**Telephone: 029 2085 8585**

**Facsimile: 029 2085 8586**

## 3 Year Warranty

The three year warranty starts from the date of delivery and includes parts and labour for the first year.

The labour element is subject to full, free and safe access to the equipment as recommended by the CDM regulations.

The remaining two years covers replacement parts only.

### NOTE:

**Installation & Maintenance of the equipment must be as directed in the instructions provided with the unit.**

*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 alterations without prior notice.*

## **NUAIRE**

Western Industrial Estate, Caerphilly,  
United Kingdom. CF83 1XH

Tel: 029 2088 5911, Fax: 029 2088 7033

Email: [info@nuaire.co.uk](mailto:info@nuaire.co.uk)

[www.nuaire.co.uk](http://www.nuaire.co.uk)

### NB

If you have any comments or queries on any of our products or services please write to the Marketing Services Manager at the main address opposite