

GENIE-DCE DECENTRALISED MECHANICAL EXTRACT FANS (dMEV)

MEET YOUR CODE FOR SUSTAINABLE HOMES REQUIREMENT WITH
DECENTRALISED MEV. SAP APPENDIX Q RECOGNISED.



BENEFITS

MEETS REGULATIONS

SAP Appendix Q recognised.
New Part F-ventilation in buildings (System 3) continuous mechanical extract.
New Part L - conservation of fuel and power.
BRE digest 398.
Meets minimum fan power in 'Domestic Building Services Compliance Guide' (2010 edition).

ECONOMICAL

Daily running cost is 80% lower than AC fans due to low wattage motor technology.

SILENT RUNNING

Utilising market leading motor and impellor technology to produce the quietest of fans with a maximum of 35dBA@3m.

QUICK AND EASY INSTALLATION AND MAINTENANCE

Clip in push fit components ensure reduced time on site.

EASY COMMISSIONING

Commission in seconds with a dial 'a' duty feature.

POWERFUL YET COMPACT

Improved performance over the AC fan, up to 30l/s for the bathroom fan.

COMPLETE USER SAFETY

Flame retardant construction and Genie 12V model is IPX4 rated.

WIDE RANGE OF OPTIONS

Range is ideal for all applications including bathroom, en-suite, kitchen and utility areas.
Available in 230V or 12V with a choice of controls for boost speed.

FLEXIBLE SOLUTION

Mount anywhere. Install in the wall, ceiling or window. Low profile recess option is available. (Window kit code – WINKIT).

EASY TO CLEAN

Simply remove filter and wash in warm soapy water.

IDEAL FOR HIGH RISE BUILDINGS

Fan is capable of maintaining the set flow rate to within 5% even under wind load conditions.

WARRANTY

5 year warranty with extended warranty options.



CLIP IN PUSH FIT COMPONENTS

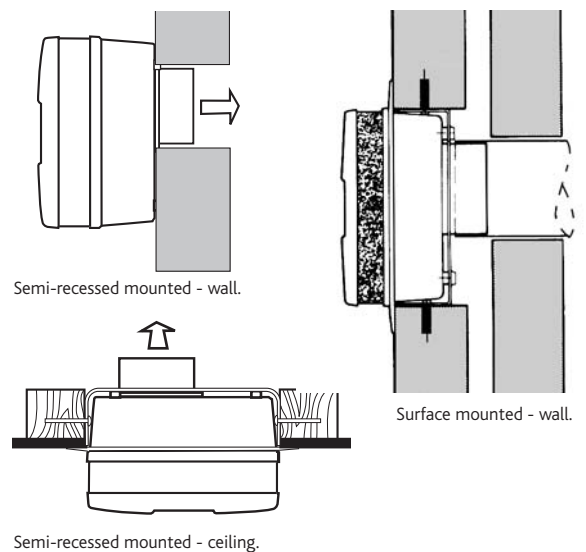
Easily removed fan/motor assembly. Removable electronic control module.



Plug-in wiring connector.

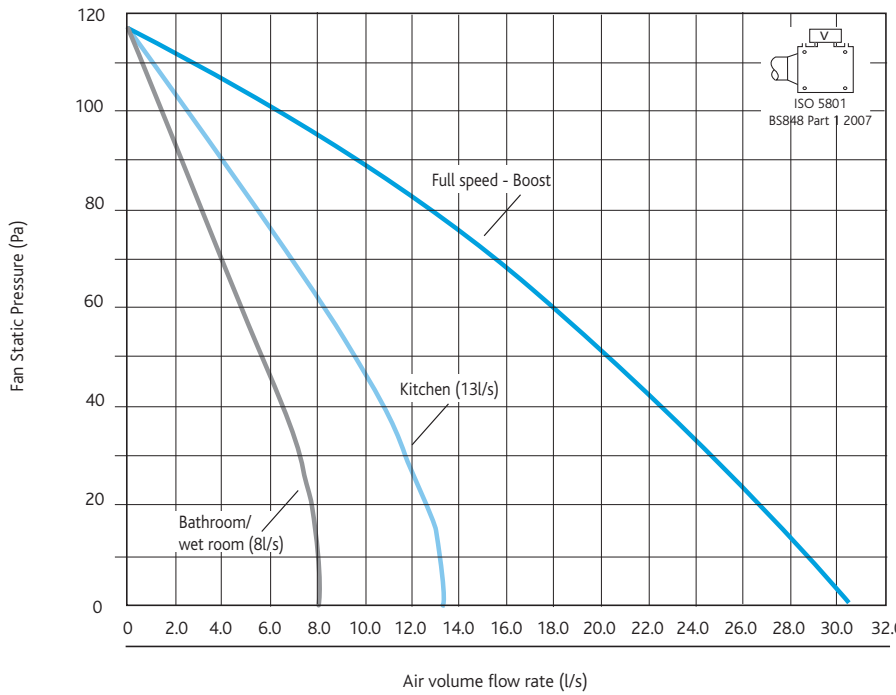


MOUNTING OPTIONS

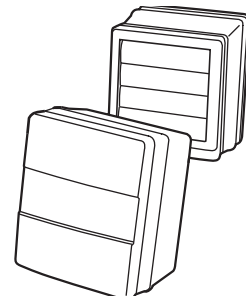


PERFORMANCE GENIE-DCE EXTRACT FANS

Genie-DCE Extract Fans



Casing



Note: see window kit for window version.

Code descriptions

GENIE-DCE-H12



1. Genie range
2. Low wattage DC motor
3. Control function
4. Voltage

GENIE-DCE FANS RANGE AND CONTROL FUNCTION

| Unit Code | Sound levels | | | Mounting Type | Operating Voltage | Control function |
|----------------|-------------------------|------------------------|-------------------------|---------------|-------------------|---|
| | Trickle-Bathroom dBA@3m | Trickle-Kitchen dBA@3m | Full speed/Boost dBA@3m | | | |
| GENIE-DCE | 18 | 20 | 34.5 | surface | 230 | continuous ventilation at imperceptible noise level with boost duty activated via light switch or remote fan switch (by others) or integral pullcord. With adjustable run-on timer (1-60 mins). |
| GENIE-DCE-12 | 18 | 20 | 34.5 | surface | 12 | 12V continuous ventilation at imperceptible noise level with boost duty activated via light switch or remote fan switch (by others) or integral pullcord. With adjustable run-on timer (1-60 mins). Purpose made transformer. |
| *GENIE-DCE-H | 18 | 20 | 34.5 | surface | 230 | continuous ventilation with boost via integral humidistat, pull cord or light switch (by others). With adjustable run-on timer (1-60 mins). |
| *GENIE-DCE-H12 | 18 | 20 | 34.5 | surface | 12 | 12V continuous ventilation with boost via integral humidistat, pull cord or light switch (by others). With adjustable run-on timer (1-60 mins). Purpose made transformer. |

*Recommended for optimum humidity and odour control. Note: Code for Genie Window kit is WinKit.

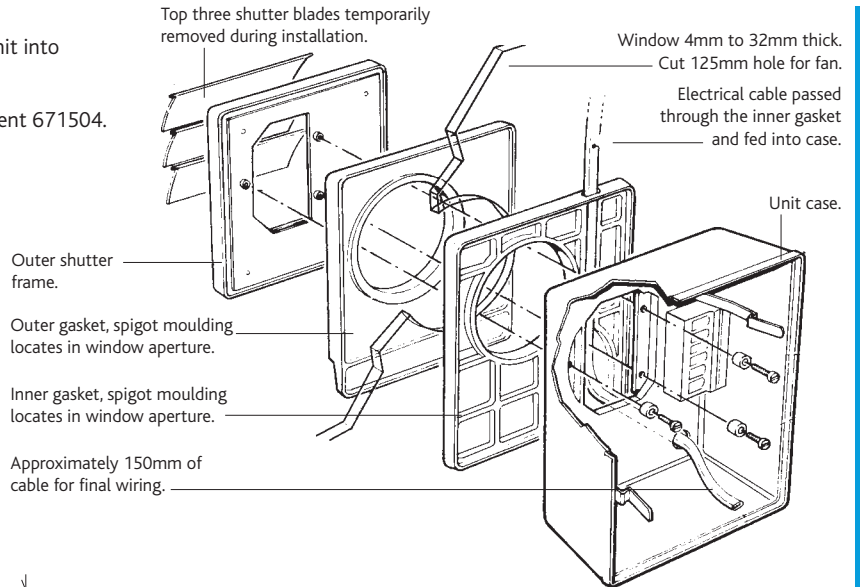
SAP APPENDIX Q TEST RESULTS *SYSTEMS WITH RIGID DUCTING ONLY

| Unit configuration | Location | Fan speed setting | Specific fan power (W/l/s) | Flow rate (l/s) | Flow rate - wind condition (l/s) | % Reduction of total flow rate (%) |
|--------------------|----------|-------------------|----------------------------|-----------------|----------------------------------|------------------------------------|
| In room | Kitchen | Kitchen | 0.28 | 14.4 | 13.8 | 4 |
| | Wet room | Bathroom | 0.28 | 9.1 | 8.7 | 4 |
| Through wall | Kitchen | Kitchen | 0.23 | 15.1 | 14.8 | 2 |
| | Wet room | Bathroom | 0.23 | 8.2 | 8.2 | 0 |

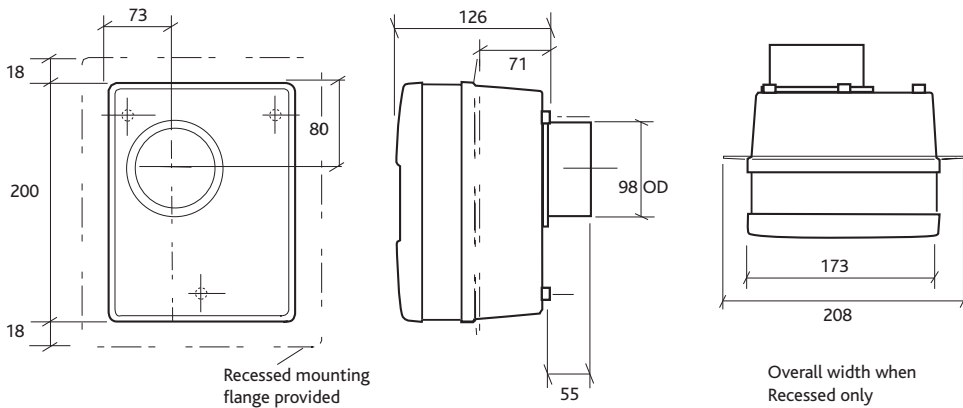
WINDOW MOUNTING OPTION

The window mounting kit is designed for mounting the unit into windows 4mm to 32mm thick using a 125mm dia hole.

For further information please refer to Installation document 671504.



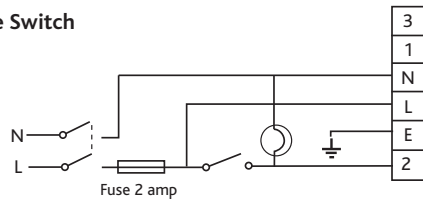
DIMENSIONS GENIE-DCE FAN UNIT (MM)



WIRING - 230V AND 12V FANS

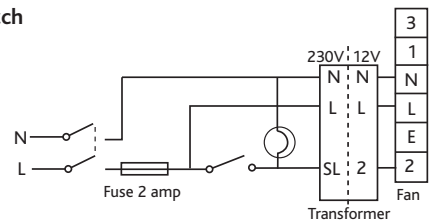
230V units via Remote Switch

GENIE-DCE
 GENIE-DCE-H



12V units via Remote Switch

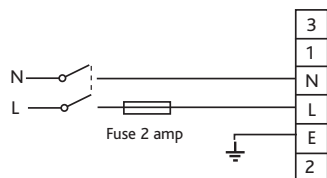
GENIE-DCE-12
 GENIE-DCE-H12



The switched Live signal to terminal 2 must be at 230V to enable the fan and at 0V to stop the fan after the adjustable timed overrun period. Induced voltages in the switched live field wiring can keep the unit running.

230V units via Pullcord

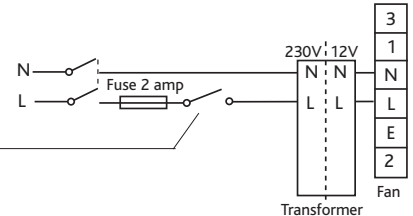
GENIE-DCE
 GENIE-DCE-H



12V units via Pullcord

GENIE-DCE-12
 GENIE-DCE-H12

As wiring for remote switch excluding switch.



Warning: For EMC compliance the 12V cable should not be fitted within 50mm of 230V or other cables or on the same tray/ trunking if made of metal. The earth connection in the transformer enclosure should not be used. No earth connection should be made to the 12V fan unit.

POWER CONSUMPTION

| | 230V | 12V |
|--------------------------|------|------|
| Unit input power (watts) | 12 | 16 |
| Full load current (amps) | .14 | .085 |
| Starting Current (amps) | .14 | .085 |

12V TRANSFORMER DETAILS

Transformer Installation notes for wiring sizes

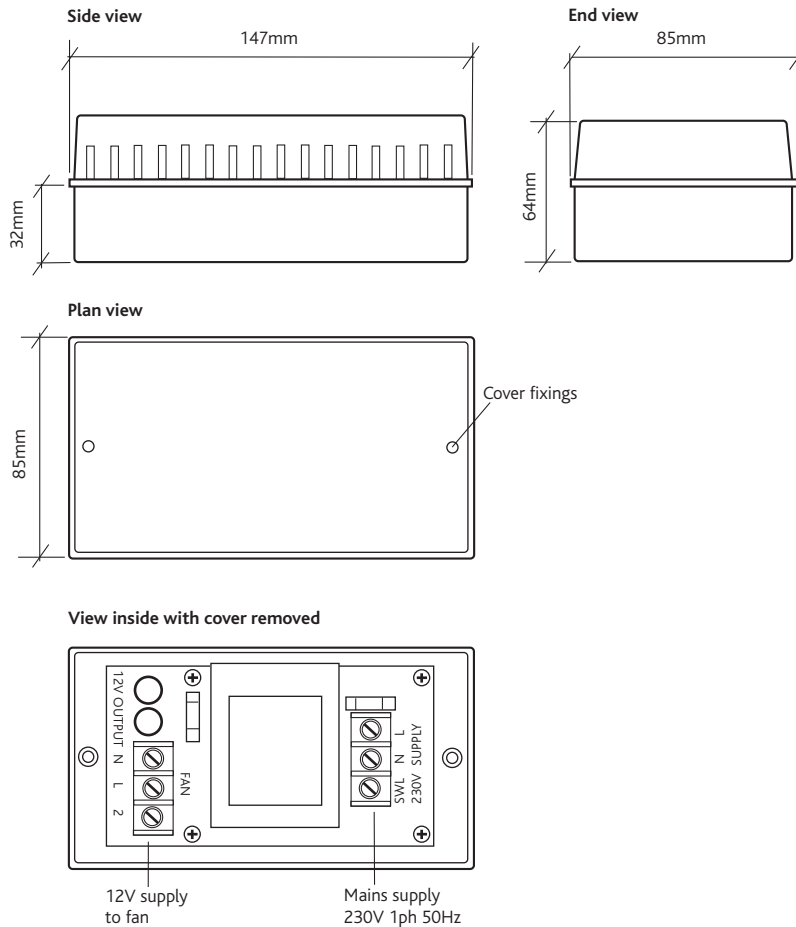
It is important to note that the size of wire used between the transformer and the fan unit can have an adverse effect on the units performance if the following table is not adhered to.

Mains Supply: (230V) 0.5mm sq.

Transformer to fan (12V units only)

| Cable run (max. 10 metres) | Cable size |
|----------------------------|------------|
| Up to 2m | 0.75mm sq. |
| Up to 4m | 1.00mm sq. |
| Up to 6m | 1.50mm sq. |
| Up to 10m | 2.50mm sq. |

12V TRANSFORMER DIMENSIONS (MM)



CONSULTANTS SPECIFICATION

GENIE-DCE KITCHEN AND WET ROOM FAN

The unit shall be manufactured by Nuaire.

Unit shall be SAP Appendix Q recognised.

Under wind load conditions the unit will be capable of maintaining it's set flowrate to within 5%.

The unit shall be surface mountable incorporating a push fit, washable filter with an area of 23,750mm² and capable of conversion, if necessary, to semi-recessed format using flange supplied or window mounting format using optional fixing kit.

Unit noise level shall not exceed 20dBA @3m for kitchens and 18dBA for wet rooms (normal running).

The unit shall incorporate an injection moulded forward curved centrifugal impeller.

The impeller shall be directly driven by a low energy, high efficiency 12V DC motor, fitted with sealed, self lubricating ball bearings.

Motors shall have locked rotor protection to prevent overheating in the event of fan failure.

The fan/motor assembly and the unit control assembly shall be capable of replacement as "plug in" modules without disturbing the field wiring.

Each unit is capable of being set to comply with new edition (2010) Part F – ventilation building regulations for (System 3) continuous mechanical extract (MEV) and new edition (2010) Part L - conservation of fuel and power.

Units shall be fitted with a run-on timer facility (1-60 minutes), from switched live signal only.

Unit can comply with BRE digest 398 under continuous mechanical extract ventilation.

Meets the minimum fan power requirement of 0.5w/l/s in the in 'Domestic Building Services Compliance Guide' (2010 edition).

Fan status indication to be visible on front of unit, with flashing LED to show fan failure.

Plastic casing to be manufactured from flame retardant materials.
The unit shall be designed for quietest operation to ensure occupant satisfaction.

The unit shall incorporate electrical connections to allow for the unit's "boost" airflow to be triggered by either pull-cord or switched live.

The unit shall be supplied with a 5 year warranty.