

**Noise Mitigation Measures for Planning Approval 21/502324/FULL**

**For**

**Conversion of existing detached two storey garage into a three-bedroom dwelling together with a single storey extension (Revised scheme to 20/504132/FULL).**

**At**

**37 London Road, Newington, Sittingbourne, Kent, ME9 7NS**

The following report has been prepared in response to Condition 5 of the above-mentioned planning approval condition.

*5) Prior to the commencement of the development hereby approved, a scheme to demonstrate that the internal noise levels within the residential unit and the external noise levels in other relevant amenity areas will conform to the standard identified by BS 8233 2014, Sound Insulation and Noise Reduction for Buildings - Code of Practice, shall be submitted to and approved in writing by the Local Planning Authority. The work specified in the approved scheme shall then be carried out in accordance with the approved details prior to occupation of the premises and be retained thereafter.*

*Reason: To protect the residential amenities of future residents*

The following noise mitigation measures will be implemented to reduce noise to a satisfactory level: -

- Habitable room windows will be fitted with acoustically screened trickle ventilators

Glidevale Acoustic Energy Saver Humidity Sensitive Trickle Ventilator –  
Details Attached

- Wet rooms shall be fitted with acoustically screened mechanical ventilation units

Venti Axia - Acoustic Residential Purge Ventilator - Details Attached

## ULTRA VENT AND GRILLE

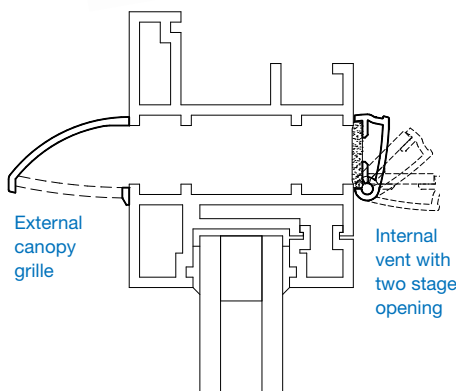
Through frame window ventilator available in three sizes, comprising controllable internal ventilator and matching external canopy grille. Controlled flow of fresh air via two stage opening. External canopy grille provides weather protection and insect ingress grille.

### Features

- Three sizes available providing 2500mm<sup>2</sup>, 4000mm<sup>2</sup> and 5000mm<sup>2</sup> equivalent areas.
- Can be used to meet background ventilation requirements of Building Regulations throughout the UK and Ireland.
- One of the smallest window ventilators on the market providing up to 5000mm<sup>2</sup> equivalent area.
- Slim profile of 10mm for the vent.
- Suitable for a range of slot sizes from 13mm to 17mm.
- Incoming air is directed upwards to avoid draughts and discomfort.
- Suitable for PVCu, aluminium and timber windows.
- Meets requirements of BS 6375-1 for resistance to water penetration.

### Material

Internal vent: Polyester powder coated aluminium with polymer end caps.  
External grille: Injection moulded polymer with integral fly screen and fixing holes.



### Colour

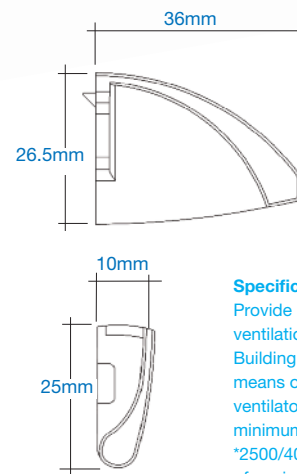
Bright White RAL 9016 as standard with alternative colours available upon request.

### Air permeability

Ultra Vent 5000 achieves 0.25m<sup>3</sup>/hr at 50Pa in the closed position when tested to BS EN 1026: 2000.

### Water tightness

Ultra Vent 5000 achieves 1000Pa pressure with no leakage in the closed position when tested to BS EN 1027: 2000.



### Specification clause

Provide background ventilation to meet Building Regulations by means of window ventilators giving a minimum of \*2500/4000/5000mm<sup>2</sup> of equivalent free area of ventilation (Glidevale Ultra Vent TVUV \*25/4/5 and Glidevale Ultra Grille TVUG \*25/5). Ventilators to provide upward directional airflow and to meet worst case requirements of BS 6375-1 for resistance to water penetration. Ventilators available from Glidevale, 2 Brooklands Road, Sale, Cheshire M33 3SS, Tel: 0161 905 5700. Fax: 0161 905 2085. Email: info@glidevale.com. \*delete as required

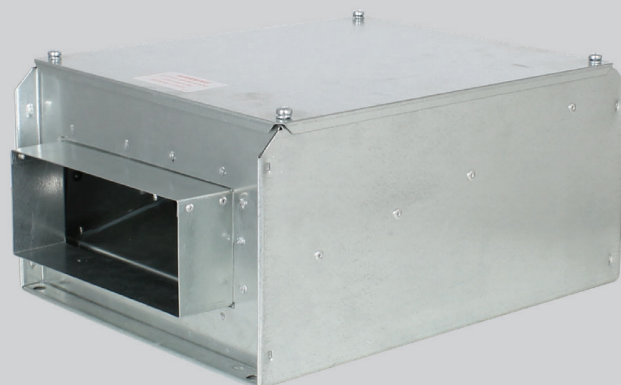
## Performance and dimensions

### Equivalent area

Product	Ventilation equivalent area	Geometric free area	Slot size required (height x width)	Dimensions (length x height x width)	
				Internal vent	External canopy grille
Ultra Vent 2500	2500mm <sup>2</sup>	2742mm <sup>2</sup>	1no x 13-17 x 165mm	235 x 25 x 10mm (TVUV25)	203 x 26.5 x 36mm (TVUG25)
Ultra Vent 4000	4000mm <sup>2</sup>	4465mm <sup>2</sup>	2no x 13-17 x 135mm	350 x 25 x 10mm (TVUV4)	373 x 26.5 x 36mm (TVUG5)
Ultra Vent 5000	5000mm <sup>2</sup>	5400mm <sup>2</sup>	2no x 13-17 x 162.5mm	405 x 25 x 10mm (TVUV5)	373 x 26.5 x 36mm (TVUG5)

# Acoustic Residential Purge Ventilator

- Rapid local extract
- Satisfies Part F purge requirements
- Acoustically treated for low noise
- Helps to reduce overheating
- Can be used in conjunction with MVHR and MEV units or as standalone system
- 220x90 or 250 diameter spigots
- Low profile design
- Easy setup
- Energy efficient EC fan
- Variable speed control
- Low maintenance requirement



The Vent-Axia Acoustic Purge Fan is used to rapidly remove indoor pollutants as well as reducing the impact of overheating in residential dwellings, providing a more comfortable and healthy internal environment for home-owners.

The Acoustic Purge Fan can be used in conjunction with a Sentinel Kinetic MVHR unit or independently via a separate switched live connection or 0-10V external sensor input. The Acoustic Purge Fan can be installed in habitable rooms to satisfy Approved Document F Purge requirements (4 air changes per hour). The unit can be installed in conjunction with controllable duct dampers and/ or background ventilators to manage the supply air into the dwelling under purge operation.

The Acoustic Purge Fan is specially treated with acoustic foam to reduce breakout and induct noise, ensuring end-user comfort during operation. As well as boasting a low-profile design, the unit utilises 220x90 spigots to allow easy use of flat ducting in tight void spaces in apartments.

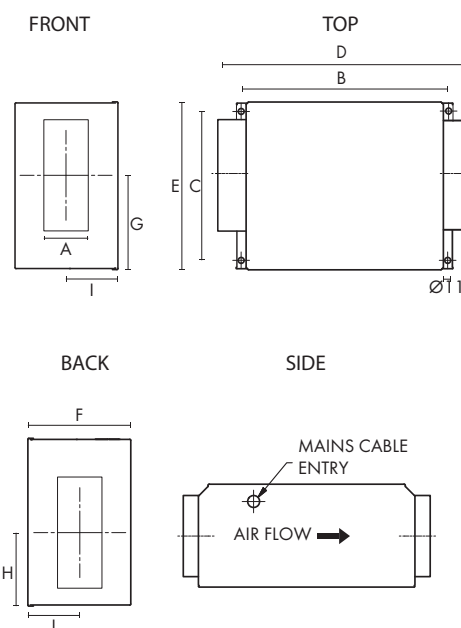
## Model

Model	Stock Ref
Acoustic Purge Fan	<b>477988</b>
Acoustic Purge Fan XL	<b>479829</b>

## Accessories

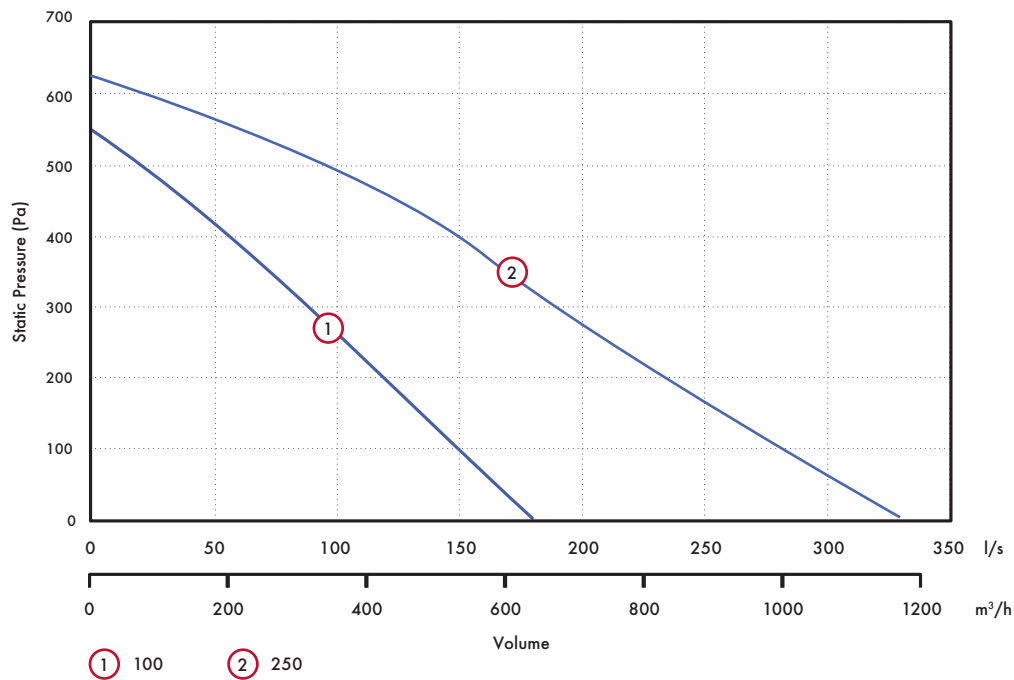
Model	Stock Ref
Remote Speed Control	<b>10520602</b>
Trickle/Boost Controller	<b>475775</b>

## Dimensions (mm)



Stock Ref	Spigot	A	B	C	D	E	F	G	H	I	kg
477988	220x90	85	380	275	456	310	191	165	145	103.5	7.5
479829	250Ø	250	435	330	511	364	287	182	122	143	13

Performance



Sound Data

Acoustic Purge Fan

		Octave Band (Hz) Sound Power Levels, dB								dB(A) @	
Speed	Test mode	63	125	250	500	1k	2k	4k	8k	LwA	3m
25%	Inlet	35	30	34	32	26	20	18	24	32	15
	Outlet	36	32	36	34	33	28	20	23	37	19
	Breakout	37	34	31	28	24	18	18	23	30	10
50%	Inlet	40	38	51	47	41	38	31	26	48	31
	Outlet	40	44	57	51	50	49	43	31	56	38
	Breakout	43	46	50	46	43	39	32	27	48	27
80%	Inlet	45	45	60	60	52	49	44	40	59	42
	Outlet	50	50	68	65	61	61	56	49	68	50
	Breakout	64	53	57	58	54	50	47	45	59	39
100%	Inlet	55	46	60	61	53	50	45	41	60	43
	Outlet	53	51	65	66	62	63	57	51	68	51
	Breakout	56	54	57	60	56	52	49	47	61	41

Acoustic Purge Fan XL

		Octave Band (Hz) Sound Power Levels, dB								dB(A) @	
Speed	Test mode	63	125	250	500	1k	2k	4k	8k	LwA	3m
25%	Inlet	48	49	42	38	35	24	24	29	40	22
	Outlet	47	46	41	37	41	29	24	29	42	24
	Breakout	42	42	37	31	29	26	25	31	40	19
50%	Inlet	55	57	65	58	49	43	45	38	57	39
	Outlet	53	57	62	58	54	55	51	36	59	41
	Breakout	52	48	53	43	37	36	34	30	48	27
80%	Inlet	63	65	69	76	62	54	53	49	71	53
	Outlet	63	66	69	72	69	68	62	55	72	54
	Breakout	54	56	57	57	48	46	45	36	57	36
100%	Inlet	68	71	72	80	68	62	59	56	76	58
	Outlet	68	71	70	78	75	75	68	63	78	60
	Breakout	61	63	62	62	55	54	52	45	63	42

Wiring Diagram

