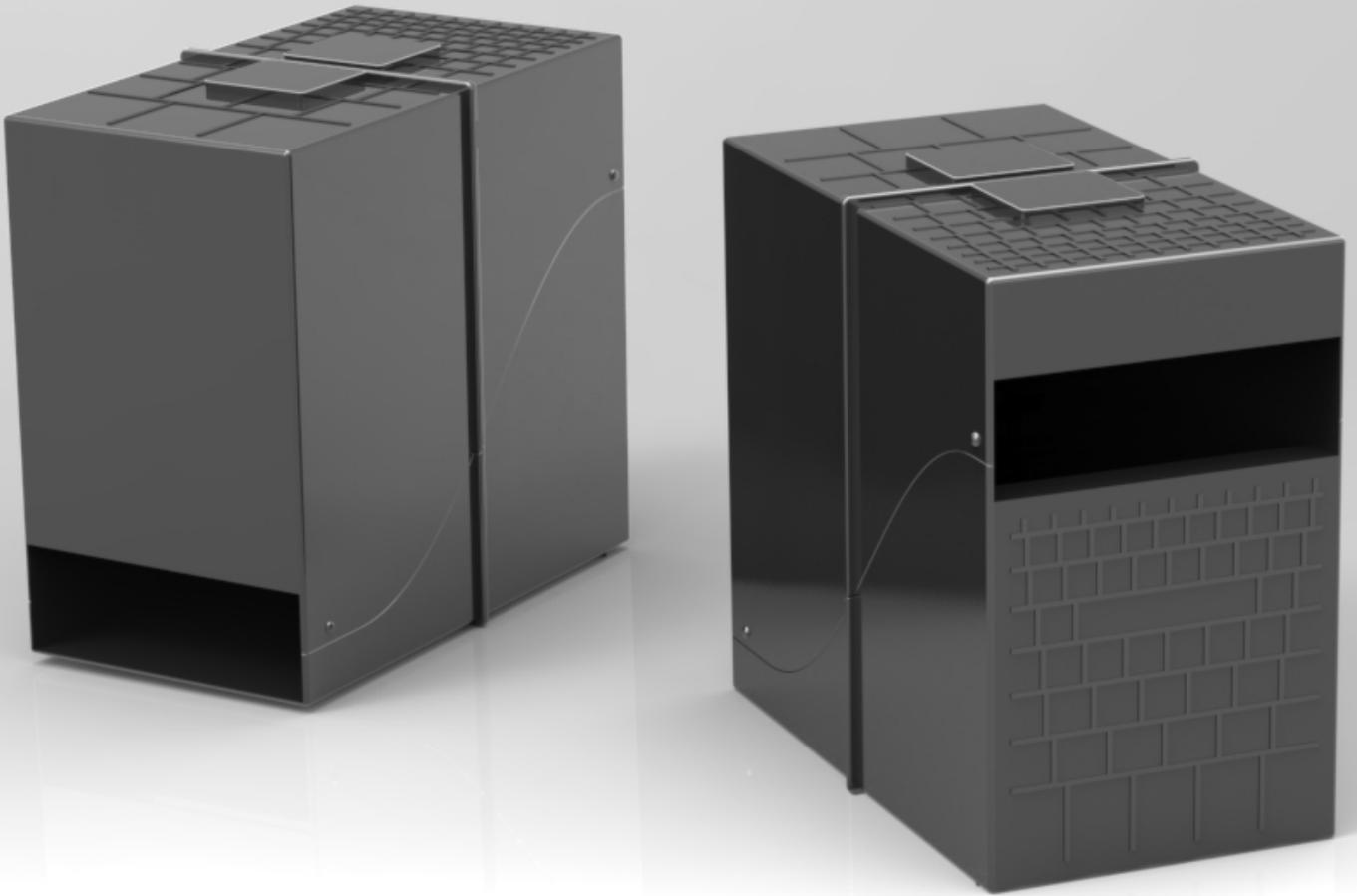


*Your proven answer  
to soundproof ventilation  
in noise affected buildings.*



## 240mm Passive Acoustic Wall Ventilator

Product Code: 10-01-01



**Best new product**  
DesignBuild Australasia



**Top 10 Eco Product in the USA**  
Sustainable Building Magazines



**Silver Medal**  
International Salon des Inventions.  
Geneve, Switzerland

## Sound Reduction

By using a revolutionary patented technology that incorporates arrays of sound attenuating tubes, Silenceair can reduce the noise that enters the room through a ventilation opening by up to 85%. The compact size removes the need for bulky and costly acoustic ducting.

## Airflow

The aerodynamic air-passage allows for a highly efficient flow of air at very low pressure. For example, a single unit will allow 20 cubic metres of air into a room at very low pressure of 2 Pascals. Airflow rates at these low pressures can be increased simply by increasing the number of units used. Balancing can be achieved by the same method.

## Applications

Silenceair can be used to KEEP OUT THE NOISE in a variety of ventilation systems: for background ventilation; natural cross ventilations; in conjunction with environmentally friendly passive systems, providing make up air to A/C units; and as part of cost effective and code compliant mechanical ventilation systems.

It can be used to KEEP IN NOISE. ACTUAL applications include home theatres, night clubs and commercial dog kennels.

Visit our website for case studies, or contact the office for more advise on potential applications.

## Wall suitability

The Silenceair 240mm acoustic ventilator can be installed in any wall that is at least 240mm thick, such as double brick cavity walls, brick veneer construction. See our website for more details.

## Advantages

**Reduces noise transmission by 85%** across the acoustic barrier.

**Highly efficient.** The unique design allows for higher airflow at minimum pressure, and superior noise reduction over the thickness of the wall than alternative technologies.

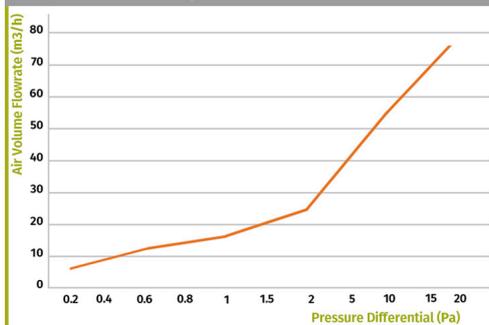
**Cost effective.** Silenceair is a highly effective solution for air penetrations through acoustic barriers. You can save on materials, installation time and operating costs.

**Environmentally Friendly.** Silenceair is ideal for use as part of an environmentally sustainable air management system. It is fully recyclable and contains recycled material.

**Can be retrofitted.** Silenceair can be installed in an existing brick vent space, or by cutting a hole in the brick wall.

**Minimal Visual Impact.** Silenceair is discreetly hidden in the wall with only a small faceplate showing which can be painted to match the wall.

## Superior Airflow



## Tabulate Airflow Performance

Pressure Drop (Pa)	m3/h	l/s
0.20	7	1.9
0.40	10	2.8
0.60	13	3.5
0.80	15	4.1
1.00	16	4.6
1.50	20	5.6
2.00	24	6.5
5.00	38	10.5
10.00	54	14.9
15.00	66	18.3
20.00	76	21.1

The airflow performance graph and table above shows how much air flows through the Silenceair acoustic attenuation device at different air pressures. For example, when the air pressure differential is 0.20 Pascals, air will flow through the device at 7 cubic metres an hour, or 1.9 litres per second.

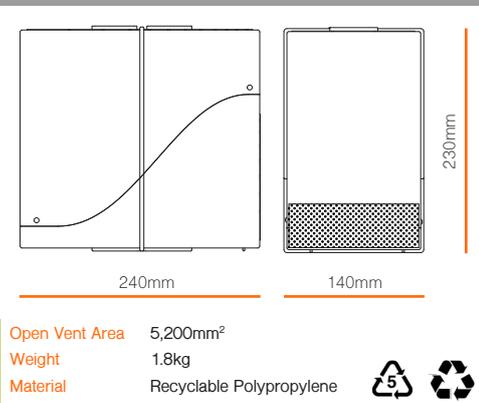
## Superior Noise Reduction



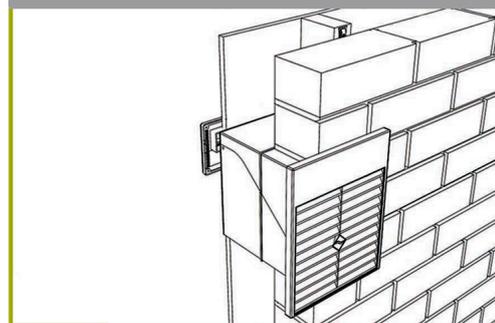
Frequency (Hz)	Vent Open	Vent Closed
100	22.6	30.2
125	18.3	26.1
160	9.5	34.2
200	7.6	32.7
250	16.2	32.0
315	18.3	28.5
400	16.2	33.9
500	24.8	36.2
630	33.2	35.2
800	37.3	38.0
1000	37.2	42.3
1250	37.0	42.8
1600	37.8	38.1
2000	35.1	40.7
2500	27.1	37.8
3150	28.1	41.1
4000	33.4	48.3
5000	35.9	44.1

The noise reduction graph and table above show the reduction in sound power levels through the Silenceair acoustic attenuation device. Over the spectrum from 100hz to 5000hz the Silenceair acoustic ventilator has an Rw38 when adjustable louvre is closed.

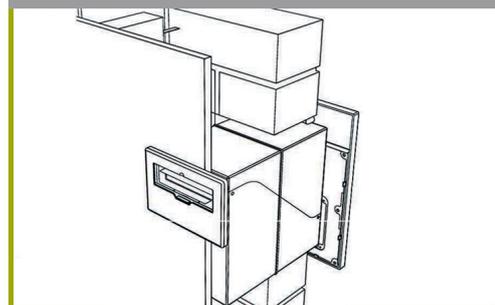
## Dimensions



## Exterior View-Section



## Interior View-Section



## Installation

Silenceair is designed to be compatible with most common construction systems and can be installed by a competent home handyman.

It can be installed in new work or retrofitted into existing buildings. You have choices of decorative interior and exterior face plate Louvre, or you may choose from any number of commercially available designs.

Silenceair is fully recyclable, is UV stabilised and contains spread of flame and smoke inhibitors.

### Notes

This technical specification refers to product 10-01-01; the Silenceair 240 wall vent.

Airflow tests were undertaken at the Wind Research Centre at Sydney University using production prototypes and acoustic tests were undertaken at the Acoustic laboratories at Sydney University using production samples.

Silenceair International Pty Ltd reserves the right to reissue performance data without notice.

For more information please contact

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