

Phoenix House

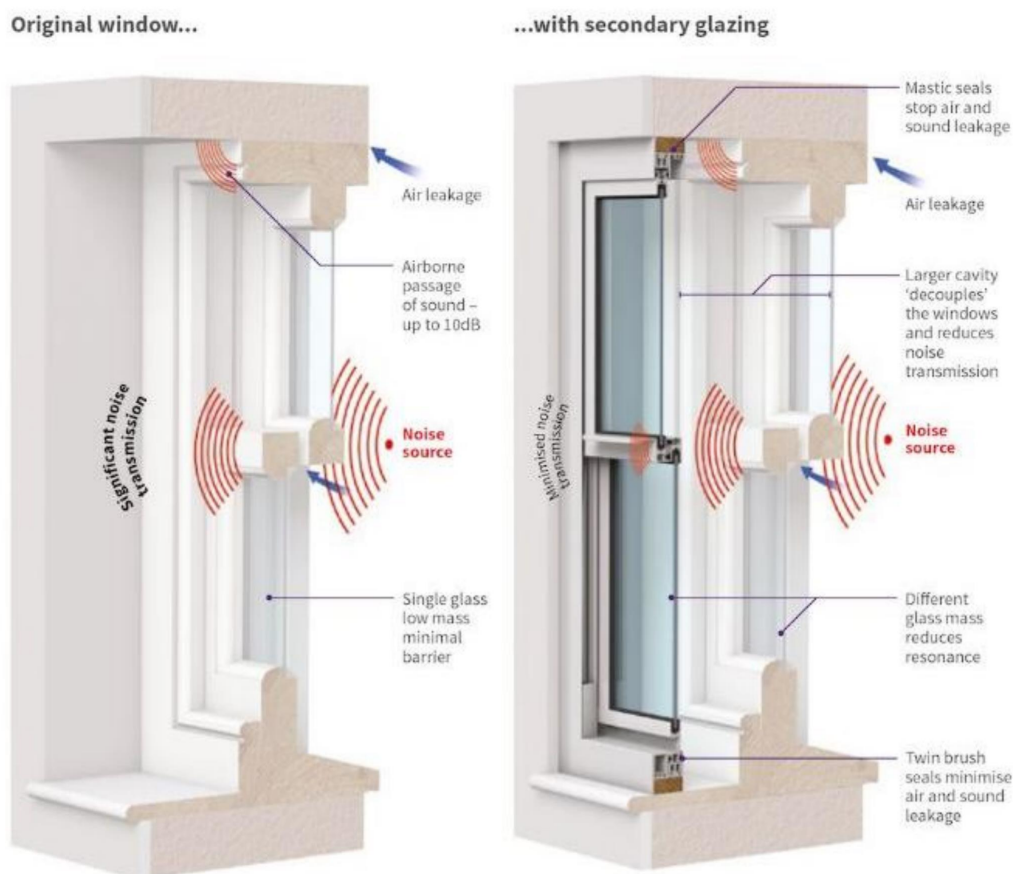
Draft Performance Specification for noise submitted with application for Prior Approval conversion to 12 flats.

All works will be undertaken in full compliance with The Building Regulations 2010. In particular, Part E – Resistance to the Passage of Sound will be met. Building Control will be guided by the requirements set out in the planning approval, which specify the performance levels to be achieved.

In accordance with statutory requirements, sound insulation testing will be carried out on completion of the works. Satisfactory results will be required prior to the issue of final completion certificates.

Windows

Acoustic secondary glazing will be fitted to all windows to comply with the Clement Acoustic report



Ventilation

Proposed Ventilation System

It is proposed to install a whole-house ventilation system serving all flats within the building. The design makes full use of the existing vertical ductwork, which extends from the floors to the roof, together with the existing duct located within the lift enclosure. From the roof level, flat ducts will be distributed to individual flats, fully contained within fire-resistant construction.

Within each flat, a compact low-noise fan unit will be installed. To avoid any potential disturbance to occupants, the unit will be housed within a storage cupboard. The fan equipment has been assessed within the submitted noise report, which confirms that no adverse noise impact will arise.

The system has been designed to operate through the existing ducts and outlets. This ensures that no new external vents, ducts, grilles, or other penetrations are required to the external fabric of the building. As a result, the installation will have no affect on the external appearance of the property.

ALL IN ONE ACOUSTIC SOLUTION

MRXBOXAB-ECO2B-1Z

The MRXBOXAB-ECO2B-1Z is the all-in-one acoustic enclosure, allowing the MVHR unit and attenuator to be entirely encased.

With an aesthetically pleasing design enclosing the attenuator, flexible duct connections and anti-vibration mounts that would otherwise be visible, whilst making a significant reduction in case radiated noise.

The unit is equipped to commission the supply and extract fans independently on both minimum and maximum speeds, with the heat exchange blocks being able to recover up to 95% of the wasted heat that has been extracted from the 'wet areas' within the property and at the same time drawing in fresh supply air from outside.

The 1Z model is designed to provide optimised balanced (supply and extract) mechanical ventilation heat recovery, whilst offering the best all-in-one acoustic solution on the market.

Units are available as SW versions with a third controllable speed for Approved Document F&O purge rates and additional SW switch to select between seasonal bypass logic profiles.

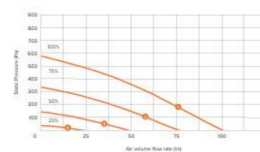
Opposite Handed (OH) configuration available.

Installation Features:



Achieves
100%
duty in bypass
mode

Performance



MRXBOXAB-ECO2B-1Z
Wall mounted unit with 100%
bypass and integral humidistat.

MRXBOXAB-ECO2B-1Z-OH
Opposite Handed configuration wall mounted
unit with 100% bypass and integral humidistat.

SUMMER/WINTER SWITCH ONLY (SW)
Units are available as SW versions with a third
controllable speed and a Summer/Winter
switch, allowing selection of seasonal bypass
logic profiles.

Electrical & Sound

Electrical		Sound									
Minimum power consumption		Sound Power Levels (dB re 1pW) (Frequency Hz)									
Current (Amps)	Power (Watts)	63	125	250	500	1k	2k	4k	8k	dBa	dBa
1	152	Open inlet									
		39	43	46	41	29	24	16	16		
		45	57	55	56	44	42	37	34		
2	67	Breakout									
		57	59	49	44	26	16	16	16	29	
		36	36	43	36	23	17	16	16		
3	20	Open inlet									
		41	52	52	53	39	34	31	26		
		47	55	45	39	21	16	16	16	24	
4	7	Breakout									
		32	29	34	27	16	16	16	16		
		33	43	43	43	29	23	16	16	16	
5	7	Open inlet									
		37	46	37	30	16	16	16	16	16	
		29	30	29	29	16	16	16	16	16	
6	7	Breakout									
		33	32	24	17	16	16	16	16	16	

The maximum power consumption shown above (Watts) is consumed on units running continuously, not taking into account any heat recovery saving and based on SAP Product Characteristic Database (PCDB) testing. The breakout case-radiated dBA values are given for Hemispherical free field radiation at 3m - to obtain the typical radiated data, subtract 3 dBA.

Please note: Sound data is provided at a particular duty point for 25%, 50%, 75% and 100%. For accurate sound data at a specific speed duty please use Newell's fan selector or call the office on 029 2085 8500.