SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
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Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO4**
Installation Manual Links:	671797
Required duty:	0.042 m³/s at 100 Pa
Addition for ancillaries:	+0 Pa
Actual duty:	0.094 m³/s at 502 Pa
Actual at required flow:	0.042 m³/s at 839 Pa

When speed controlled to required duty (44.73%):

Motor Input Power:	**0.031 kW**
Specific Fan Power:	**0.7 W/(l/s)**
Velocity at required duty:	1.337 m/s

At full speed:

Motor Input Power:	0.349 kW
Specific Fan Power:	3.7 W/(l/s)
Maximum Fan Speed:	3,230 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	2.4 A
Max. operating temp:	40°C
Weight:	44 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (44.73%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	48	54	51	41	34	27	<16	<16	27
Open Inlet (Intake & Extract)	44	47	42	41	35	30	16	<16	
Open Outlet (Supply & Exhaust)	50	58	55	53	47	45	34	26	

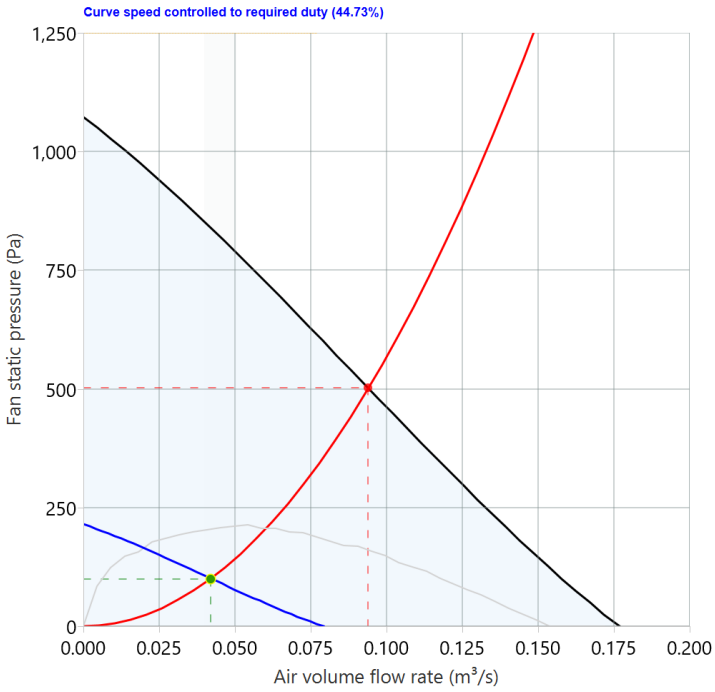
dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

MRXBOX-SIL4+FF4

Supply/Discharge	-13	-18	-22	-28	-26	-33	-34	-36
Intake/Extract	-5	-10	-15	-23	-21	-21	-17	-16

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Selected Ancillaries

1 x MRXBOX-SIL4+FF4 MRXBOX Silencer + First Fix Top Box

MRXBOX-SIL4+FF4 - MRXBOX Silencer + First Fix Top Box

Resistance at required duty	0 Pa @ 0.04 m³/s
Spigot Size (mm):	220x90

Specification

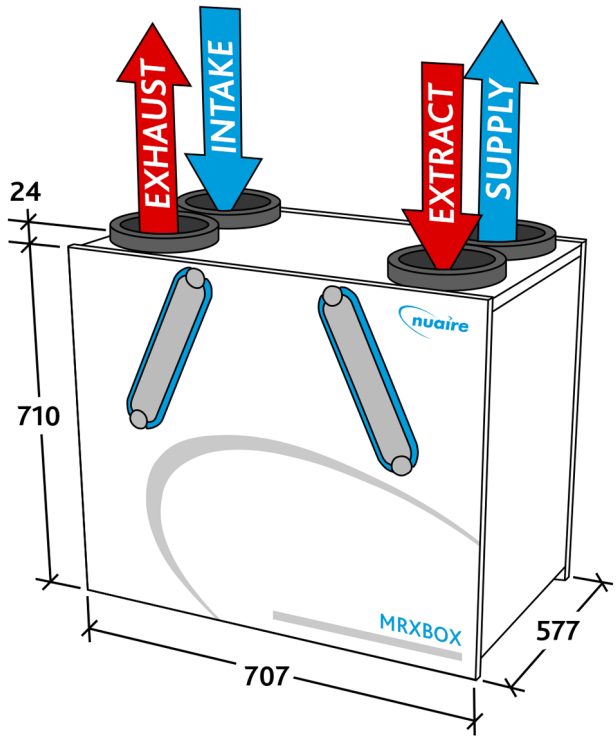
The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.
The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.
The unit shall be supplied complete with a condensate drip tray and 32mm drain connection.
The unit shall be suitable for both 200mm and 180mm circular ducting.
The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

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Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
577	707	710

Spigot size: 200
Duct size: 200
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.62	94%
Kitchen + 2 wet rooms	0.62	93%
Kitchen + 3 wet rooms	0.66	93%
Kitchen + 4 wet rooms	0.79	92%
Kitchen + 5 wet rooms	0.94	91%
Kitchen + 6 wet rooms	1.15	91%
Kitchen + 7 wet rooms	1.41	91%