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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

MRXBOX95AB-WM1 - Wall Mounted Multi Room Xbox with Summer Bypass

Wall Mounted Multi-Room Heat Recovery Unit with Summer Bypass



Fan Code:	MRXBOX95AB-WM1
Installation Manual Links:	671684
Maximum Fan Input Power:	0.069 kW
Nominal Fan Speed:	2,300 RPM
Electrical Supply:	230 V 1 Phase 50 Hz
Nominal Motor Rating:	0.072 kW
Motor Current:	flc: 0.53 A
Motor Current:	sc: 0.53 A
Max. Operating Temp.:	40°C
Weight:	16 kg

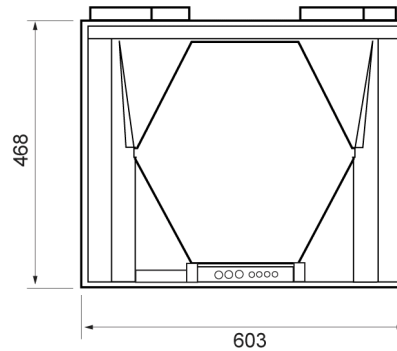
Sound Data

Acoustic performance to BS848 Part 2.2 and AMCA 300.
 Breakout Noise (dBA): 33 dBA @ 3m
 Inlet Noise (dBA): 30 dBA @ 3m
 Outlet Noise (dBA): 41 dBA @ 3m
 Breakout level is hemi-spherical. For spherical deduct 3 dBA.

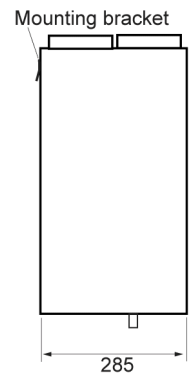
Sound Power Levels re 1 pWatts (Hz):								
Hz	63	125	250	500	1k	2k	4k	8k
Open Inlet (5)	45	41	48	47	41	39	24	24
Open Outlet (5)	48	51	57	59	54	47	39	33
Breakout (5)	51	50	53	51	43	38	30	26

Fan Dimensions

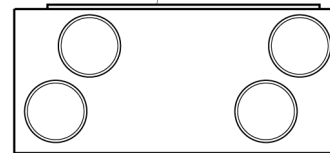
VIEW FROM FRONT WITH COVER REMOVED



SIDE VIEW



VIEW FROM TOP

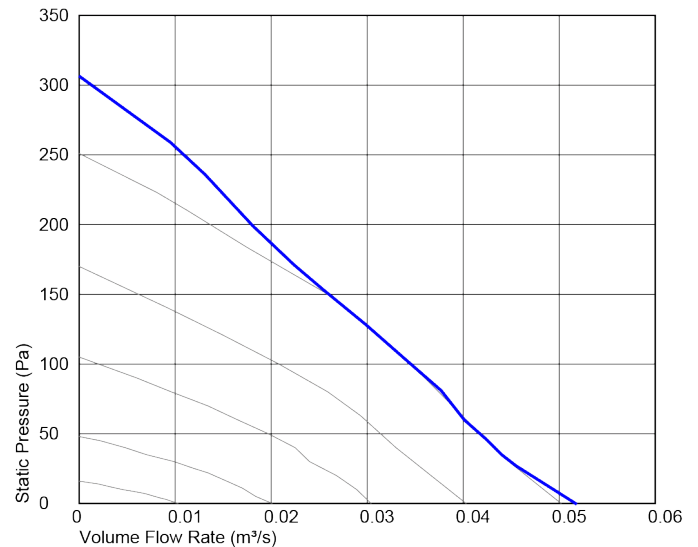


The drawing is for dimensional purposes only. Dimensions in mm.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.91	86
Kitchen + 2 wet rooms	1.26	85

Performance Curve



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Wall Mounted Multi-Room Heat Recovery Unit with Summer Bypass

Fan Code: **MRXBOX95AB-WM1**

Meets Building Regulations

Part F&L - England & Wales. Scottish technical handbook (BRE398 referenced). Technical booklet K1998.

Suitable for medium sized applications

Designed to meet the duty for average, medium size properties.

Compact

The unit fits easily into cupboards not taking up valuable storage space.

Extremely low noise levels

Quiet running unit ensuring occupant acceptability.

Added security

Windows may be kept closed.

Improves indoor air quality

High efficiency filters helps to create a healthy living environment.

Low & easy maintenance

Easy accessible filters from front cover – no tools required. Filter replacement typically every 12 - 18 months.

Discreet run monitor

Records units operational time.

Integral frost protection

Protects the unit during extreme cold spells.

Pre-commissioning filter protection

Filters are covered in a removable protective film to prevent clogged up filters prior to occupant handover.

Simple fan controls

Independent controls for supply & extract for quick and easy commissioning.

No requirements for trickle vents

Reduces noise from outside - overcome draught issues.

5 year warranty

5 year parts and 1 year labour warranty guarantee for reduced life costs and peace of mind.

Control Options

All versions shall have the following functions integrally mounted within the fan unit on a purpose made PCB, all such components prewired and factory fitted by the manufacturer:

- Independent control of background supply and extract flow rates.
- Independent control of boost speed supply and extract flow rates.
- Integral fan failure indication.
- Integral S/L terminal for boost to commission level, from remote switch, e.g. light switch
- Integral automatic summer bypass
- Integral heat exchanger frost protection.
- Integral run on timer.
- Discreet daily run monitor.

Operation

The supply and extract system shall be wall/cupboard mounted in accordance with the specification.

The combined supply and extract with heat recovery unit, shall supply filtered fresh air to each of the habitable rooms and vitiated air shall be extracted from all wet areas e.g. bathroom, en-suite, w.c, kitchen, utility rooms, etc. The supply air shall be pre-heated by the warm extract air via the integrated counter-flow heat exchanger element.

The ventilation unit shall vary its speed and therefore the ventilation rate, as it receives signals from one of the following:

- Switched live signal from light / remote switches
- Optional externally interconnected sensors.
- Remote summer bypass switch.

When signals are received, the fan shall alter its speed to adjustable, normal and boost rates. An adjustable run-on facility is integrated into the unit which allows the fans to run-on for between 1 and 60 minutes after the signals have been switched off.

The bypass opens automatically when outside temperature exceeds 20°C. This opens the damper via an actuator. Outside air supplied through the bypass is still filtered, so the air quality is optimal, irrespective of the bypass setting (open or closed).

The unit shall have the facility to commission the supply and extract fans independently on minimum speed (continuous background ventilation), and boost speed, via inbuilt minimum and maximum speed adjustment. The fans shall have infinitely variable speed control.

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 two G2 grade filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the top access panel, enabling quick and easy maintenance. The unit shall have low energy, high efficiency DC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable of an ambient temperature of 40°C.

The bypass damper opens when a 230V switch signal is applied to the unit (via a manual switch,) this opens the damper via a wax actuator. When the switch signal is deactivated the unit returns to its original state (air through the heat exchanger.)

The unit shall be supplied complete with an insulated condensate drip tray and 21.5mm drain connection.

The unit shall be suitable for 100mm or 125mm circular ducting anti-vibration mounts are supplied with each unit to prevent vibration being transmitted to the ceiling timbers.

The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.

Optional Controls

MRXBOX95-PIR - passive infra-red detector

MRXBOX95-HUM - humidistat

MRXBOX95-RFI - remote fail indicator

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