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.
This data sheet produced on 16 Jun 2023 15:59 using software version 5.8.4563.0

Project: n/a

Tottenham Mews
Location: 0.1 Cooling Rate

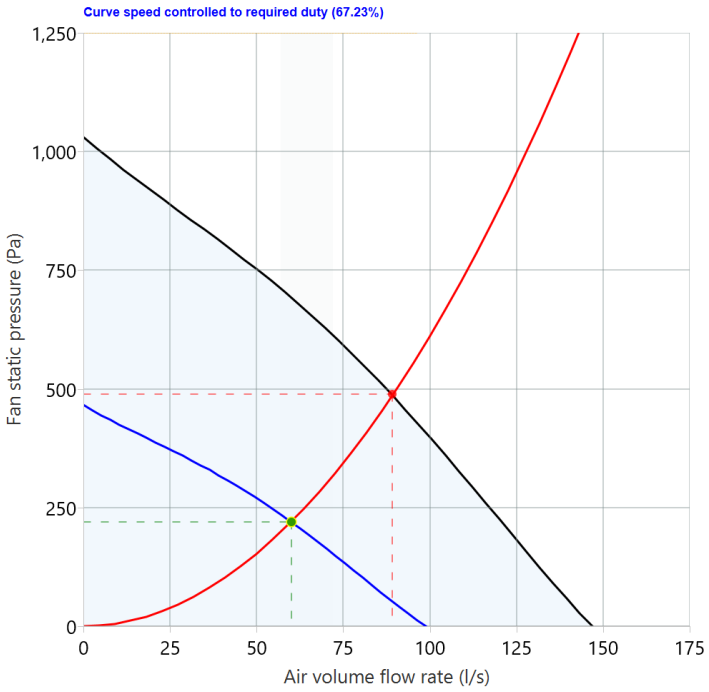
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	60 l/s at 220 Pa
Actual duty:	89 l/s at 488 Pa
Actual at required flow:	60 l/s at 692 Pa
When speed controlled to required duty (67.23%):	
Motor Input Power:	**0.095 kW**
Specific Fan Power:	**1.6 W/(l/s)**
Velocity at required duty:	0.34 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (67.23%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	60	58	54	46	34	32	24	<16	31
Open Inlet (Intake & Extract)	50	54	57	51	47	34	22	<16	
Open Outlet (Supply & Exhaust)	52	59	62	69	57	51	45	36	

Sound Data (cooling on)

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	66	65	55	47	35	32	24	17	34
Open Inlet (Intake & Extract)	56	57	57	51	47	34	23	16	
Open Outlet (Supply & Exhaust)	57	60	62	69	57	51	45	42	

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

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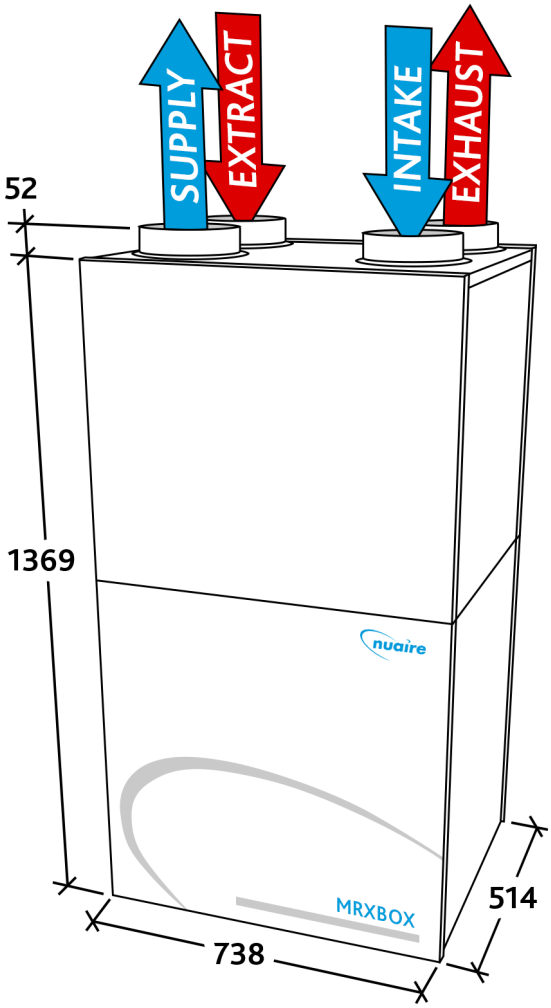
Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 0.1

Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

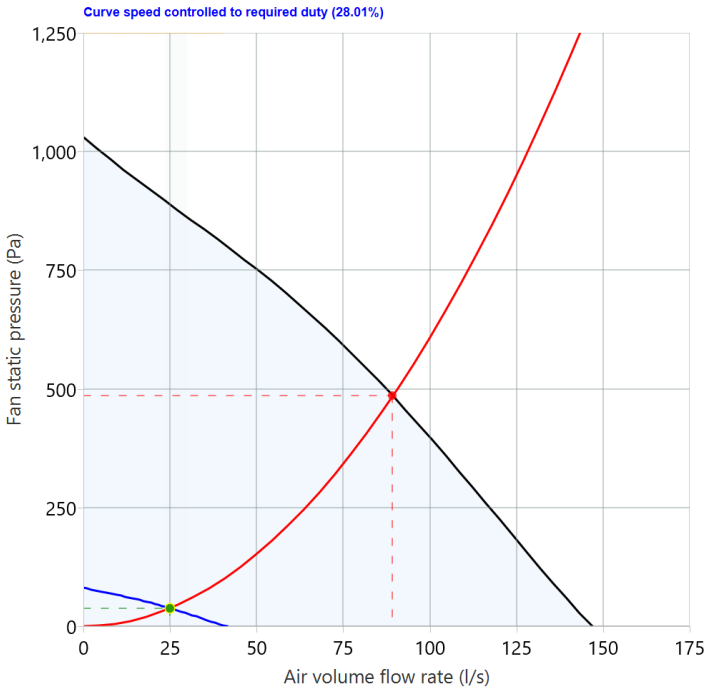
Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

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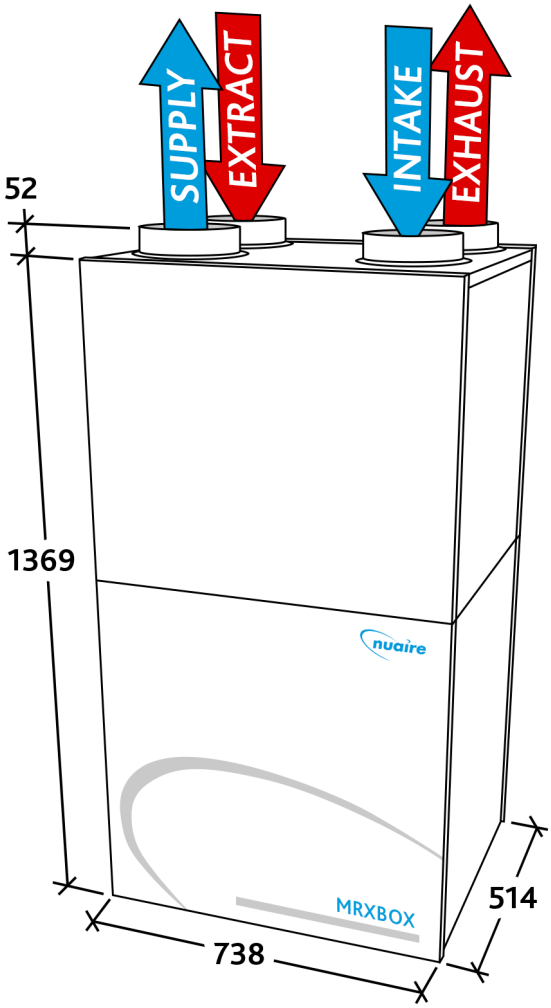
Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 0.2

Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

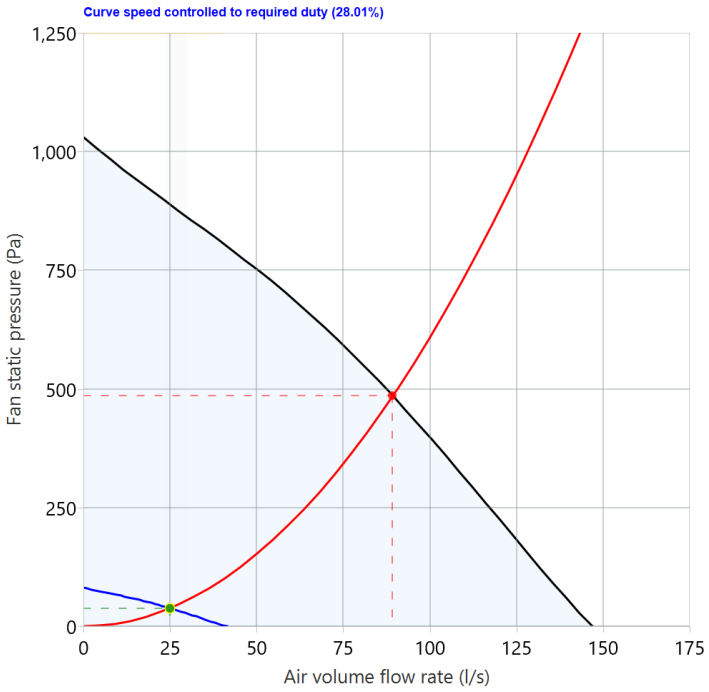
Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module
MR-ECO-COOL-V - Vertical cooling module	
Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

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Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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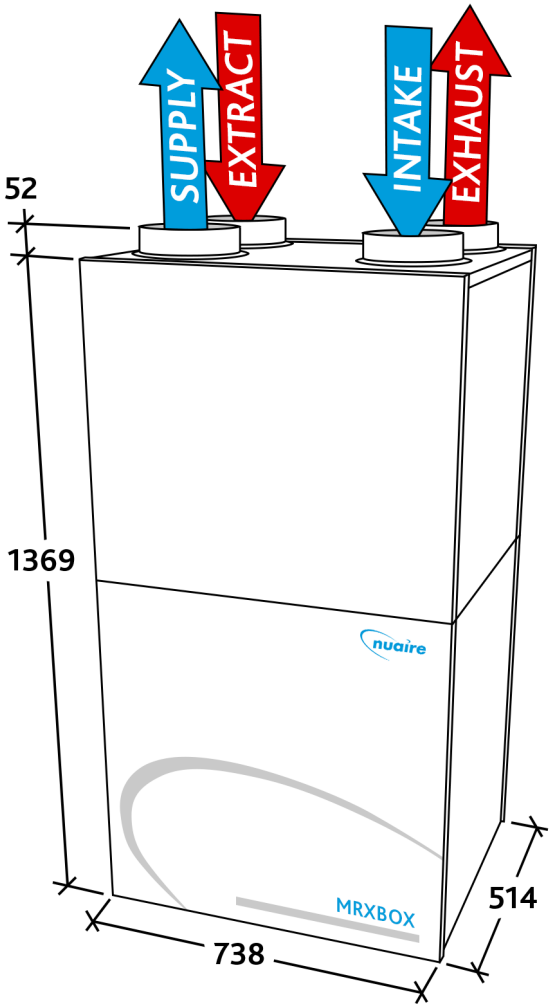

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 1.10

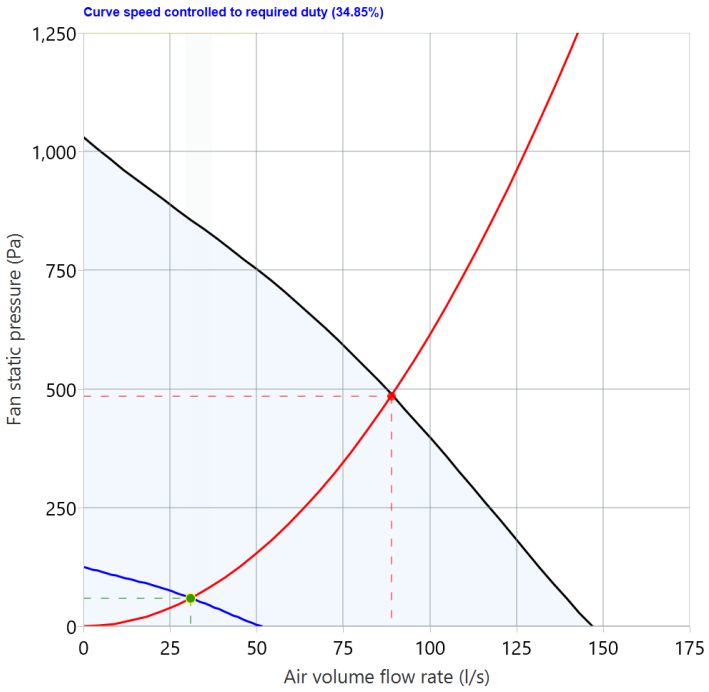
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	31 l/s at 59 Pa
Actual duty:	89 l/s at 484 Pa
Actual at required flow:	31 l/s at 857 Pa
When speed controlled to required duty (34.85%):	
Motor Input Power:	**0.013 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.175 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (34.85%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	44	47	40	32	21	<16	<16	<16	17
Open Inlet (Intake & Extract)	41	41	40	33	28	18	<16	<16	
Open Outlet (Supply & Exhaust)	41	47	43	46	34	27	17	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

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Specification

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MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
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Fan Dimensions

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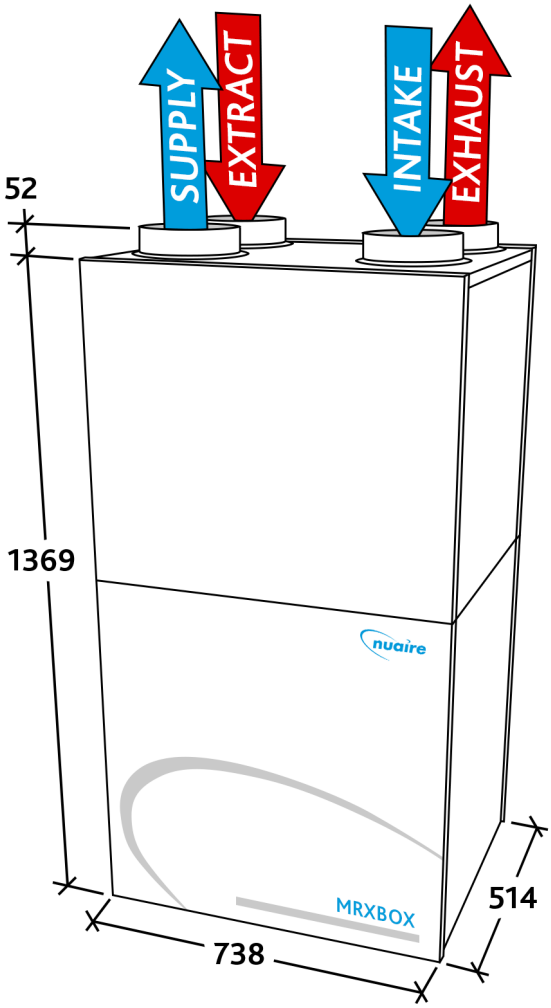

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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 %
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Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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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.
This data sheet produced on 16 Jun 2023 15:59 using software version 5.8.4563.0

Project: n/a

Tottenham Mews
Location: 1.20

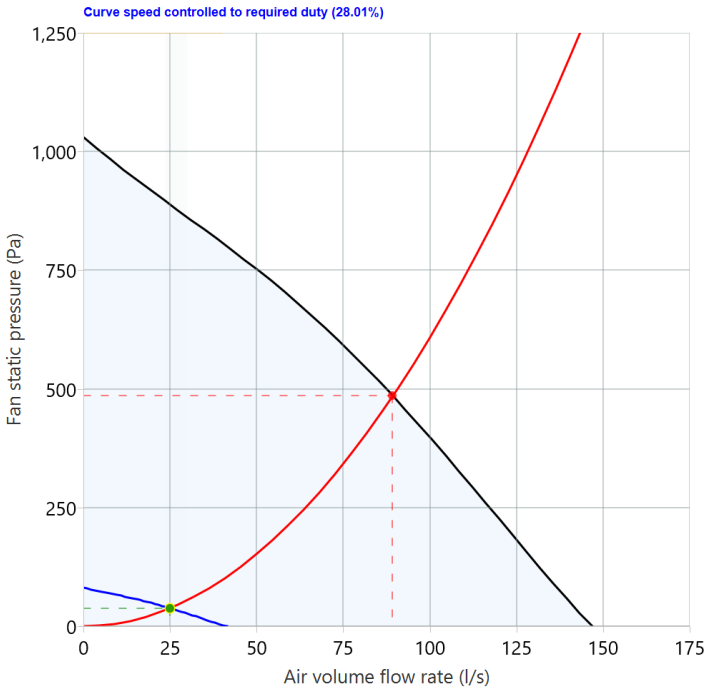
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

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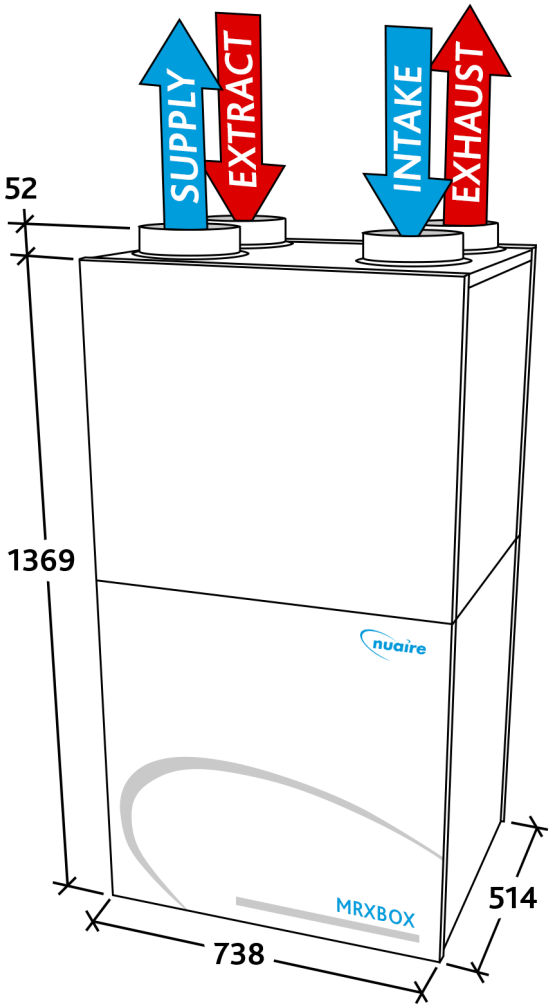
Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 1.30

Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

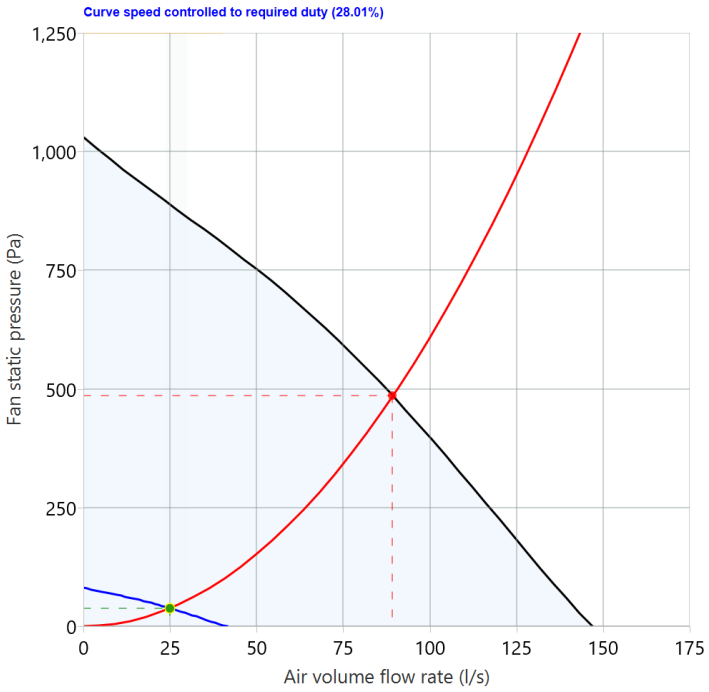
Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

SUMMARY FAN DATA SHEET

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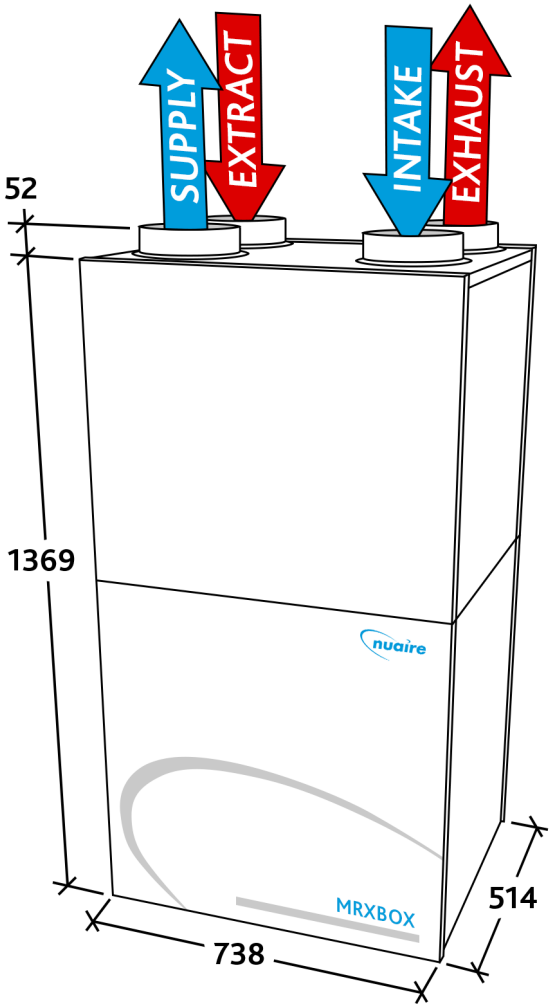
Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 1.40

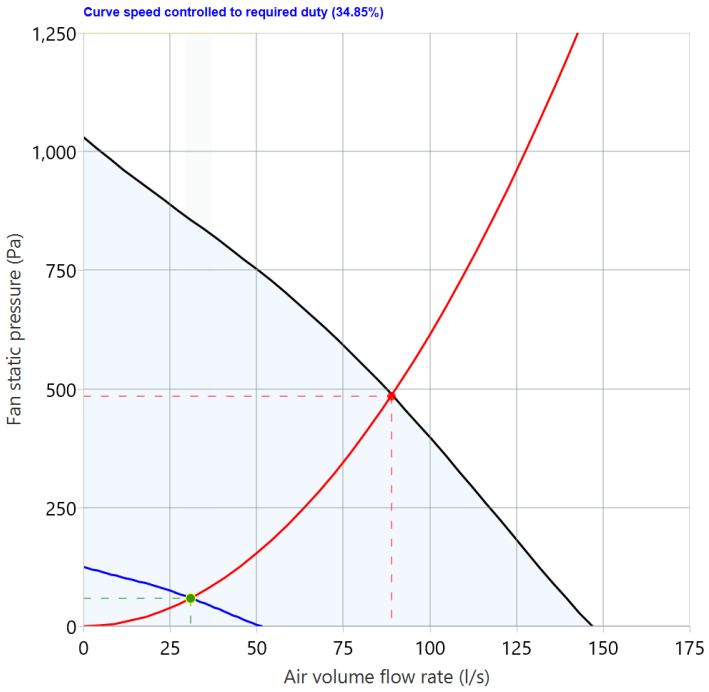
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	31 l/s at 59 Pa
Actual duty:	89 l/s at 484 Pa
Actual at required flow:	31 l/s at 857 Pa
When speed controlled to required duty (34.85%):	
Motor Input Power:	**0.013 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.175 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (34.85%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	44	47	40	32	21	<16	<16	<16	17
Open Inlet (Intake & Extract)	41	41	40	33	28	18	<16	<16	
Open Outlet (Supply & Exhaust)	41	47	43	46	34	27	17	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module
MR-ECO-COOL-V - Vertical cooling module	
Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

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Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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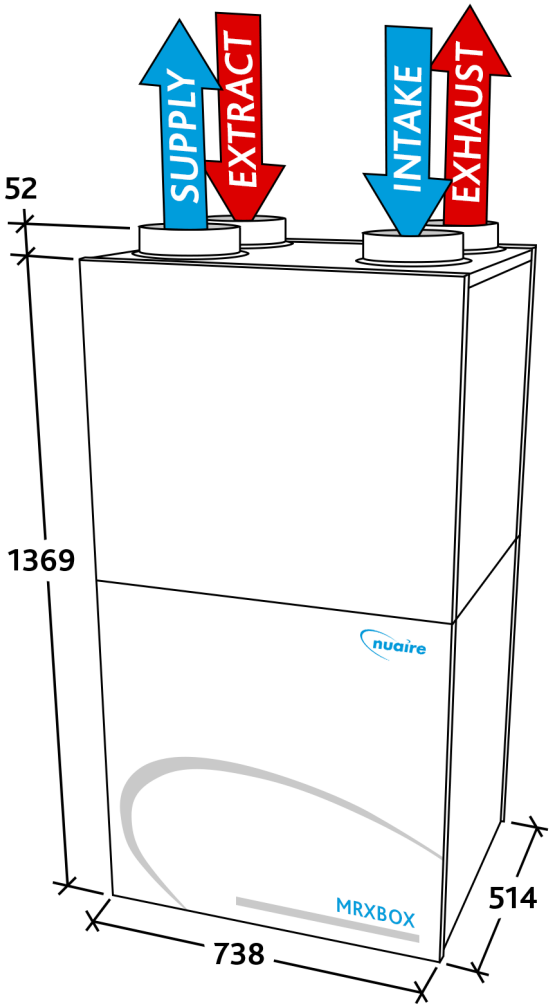

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 2.10

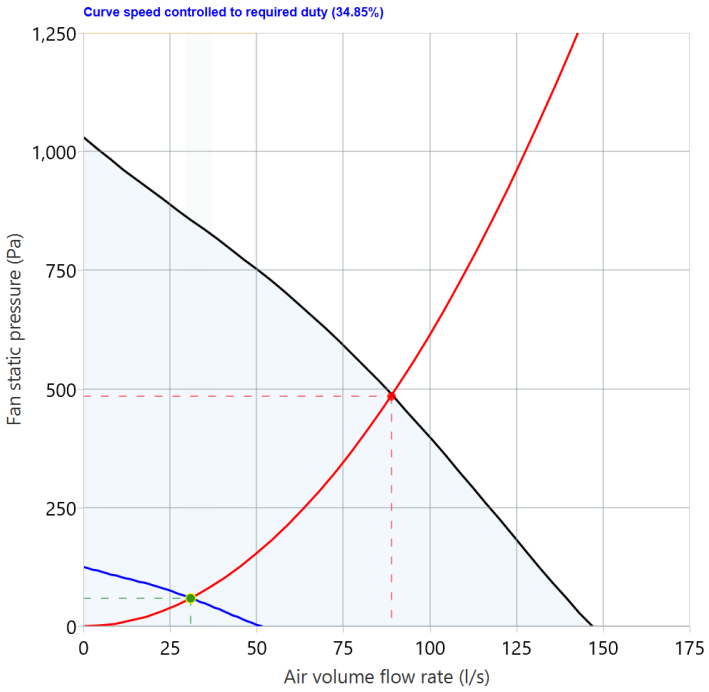
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	31 l/s at 59 Pa
Actual duty:	89 l/s at 484 Pa
Actual at required flow:	31 l/s at 857 Pa
When speed controlled to required duty (34.85%):	
Motor Input Power:	**0.013 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.175 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (34.85%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	44	47	40	32	21	<16	<16	<16	17
Open Inlet (Intake & Extract)	41	41	40	33	28	18	<16	<16	
Open Outlet (Supply & Exhaust)	41	47	43	46	34	27	17	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module
MR-ECO-COOL-V - Vertical cooling module	
Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

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Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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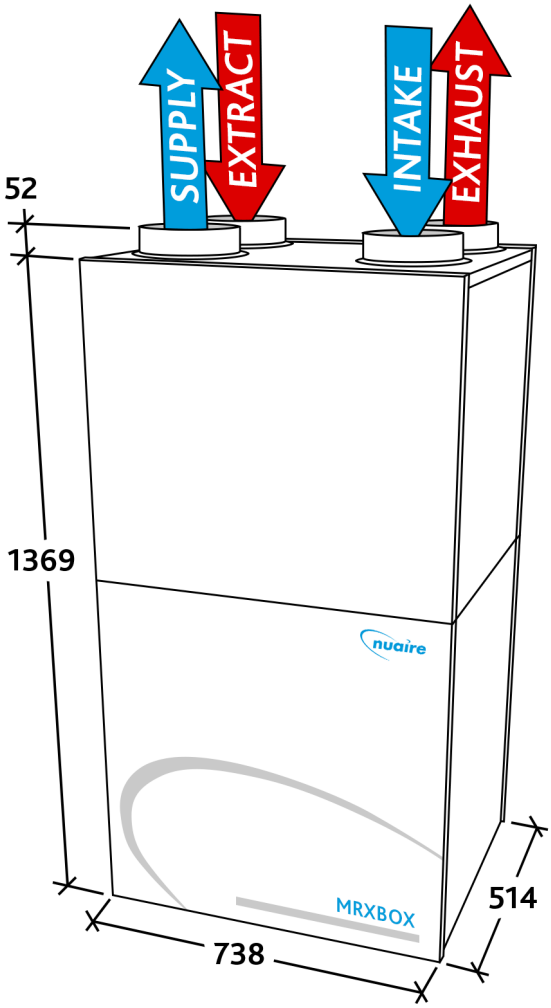

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 2.20

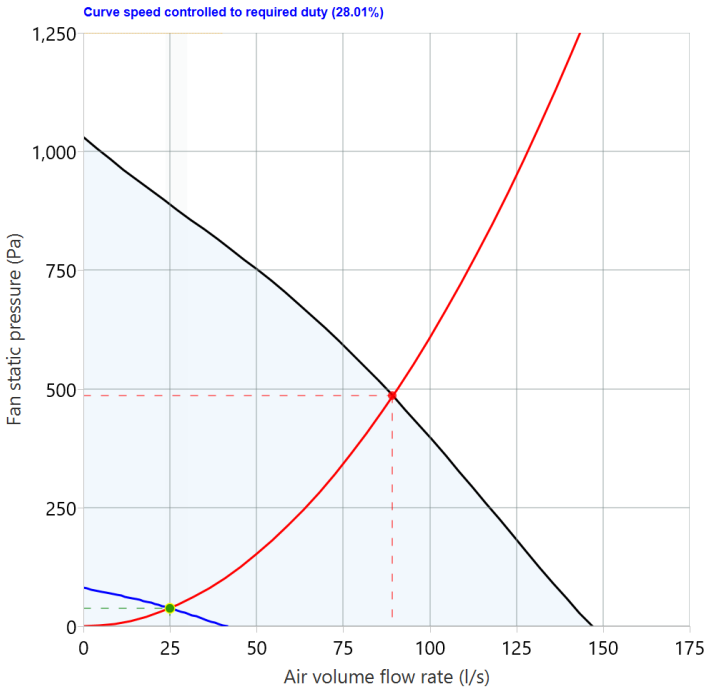
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

SUMMARY FAN DATA SHEET

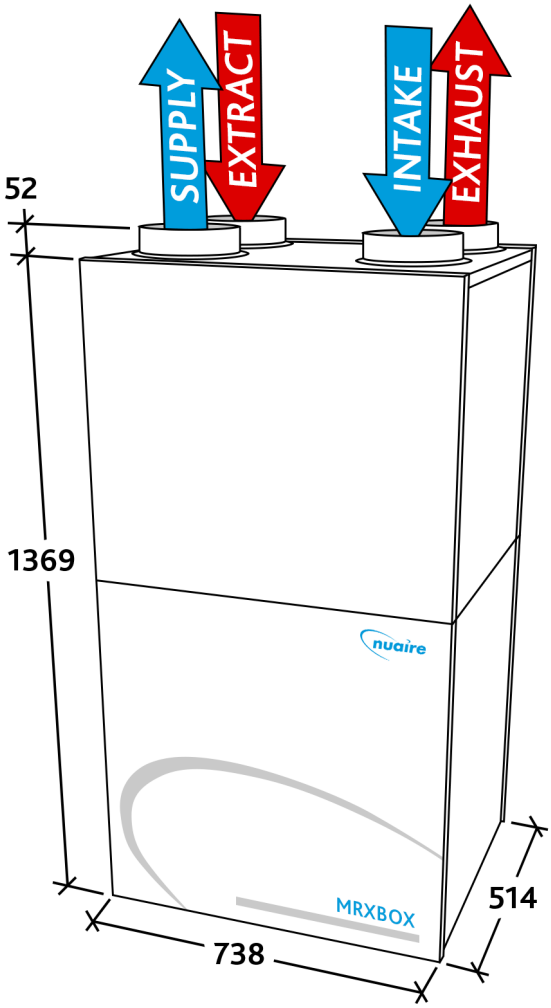
Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 16 Jun 2023 15:59 using software version 5.8.4563.0

Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 2.30

Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

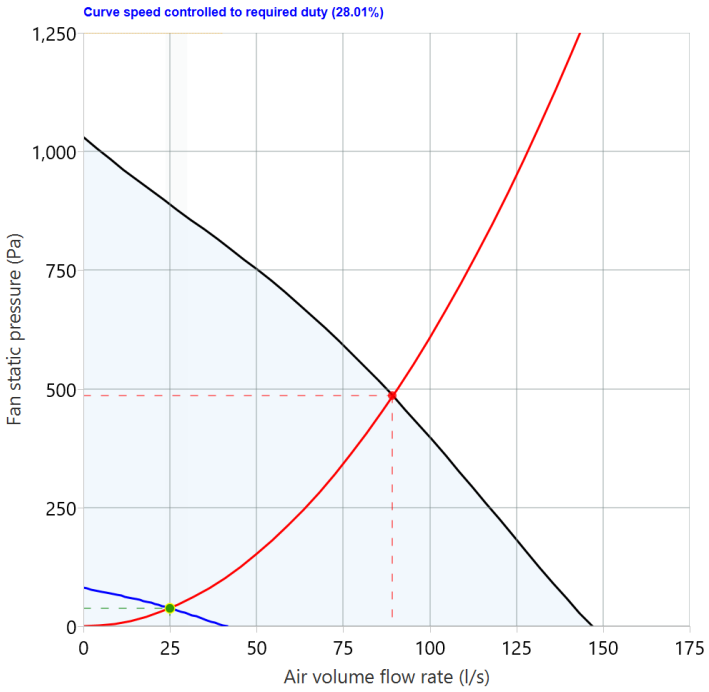
Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

SUMMARY FAN DATA SHEET

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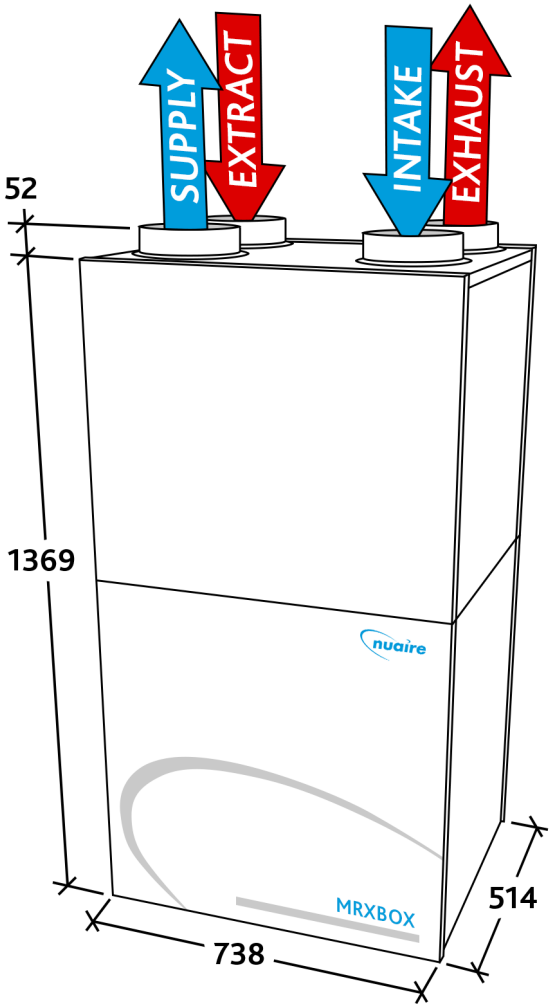
Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 2.40

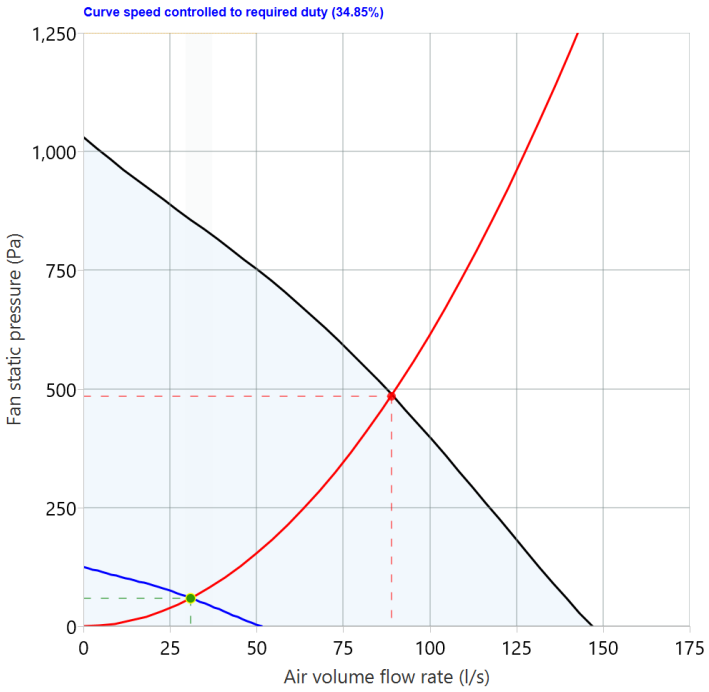
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	31 l/s at 59 Pa
Actual duty:	89 l/s at 484 Pa
Actual at required flow:	31 l/s at 857 Pa
When speed controlled to required duty (34.85%):	
Motor Input Power:	**0.013 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.175 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (34.85%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	44	47	40	32	21	<16	<16	<16	17
Open Inlet (Intake & Extract)	41	41	40	33	28	18	<16	<16	
Open Outlet (Supply & Exhaust)	41	47	43	46	34	27	17	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

SUMMARY FAN DATA SHEET

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Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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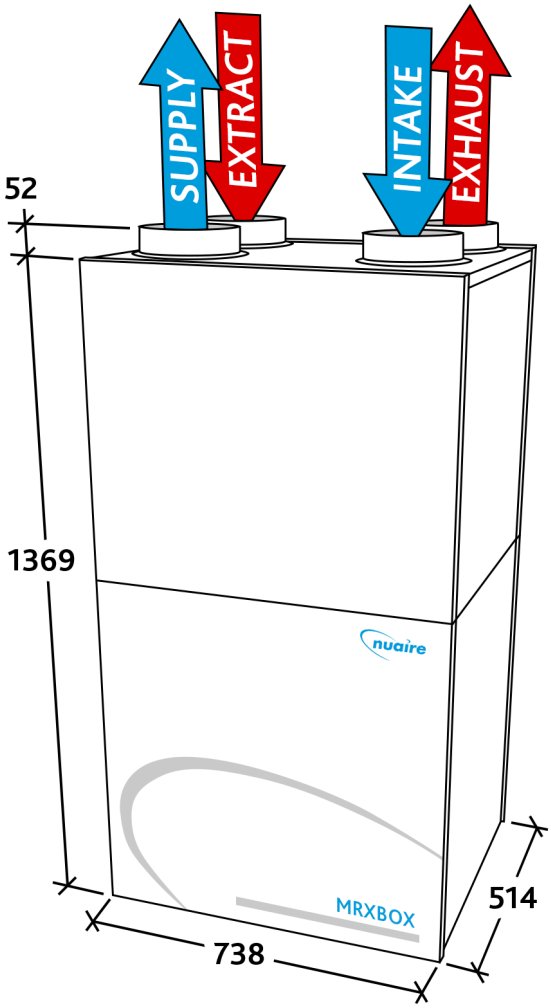

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 3.10

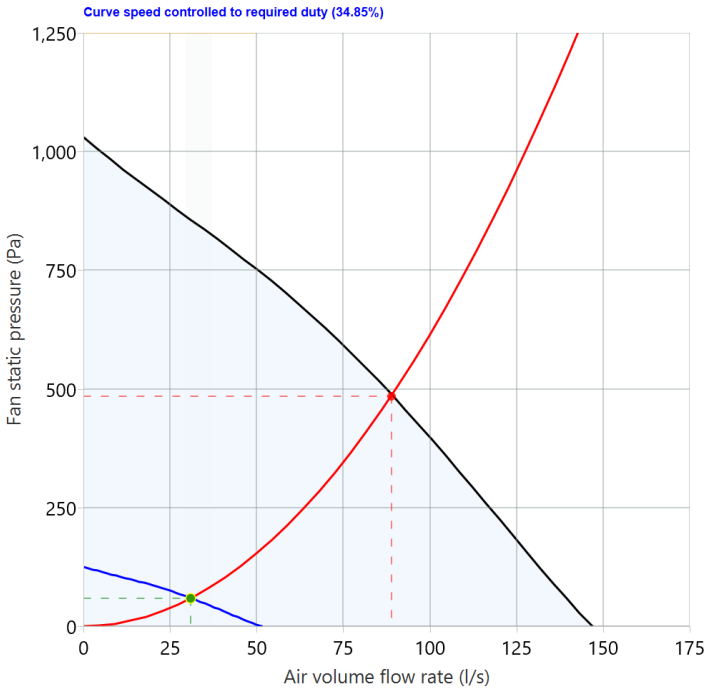
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	31 l/s at 59 Pa
Actual duty:	89 l/s at 484 Pa
Actual at required flow:	31 l/s at 857 Pa
When speed controlled to required duty (34.85%):	
Motor Input Power:	**0.013 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.175 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (34.85%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	44	47	40	32	21	<16	<16	<16	17
Open Inlet (Intake & Extract)	41	41	40	33	28	18	<16	<16	
Open Outlet (Supply & Exhaust)	41	47	43	46	34	27	17	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

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Specification

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MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
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Fan Dimensions

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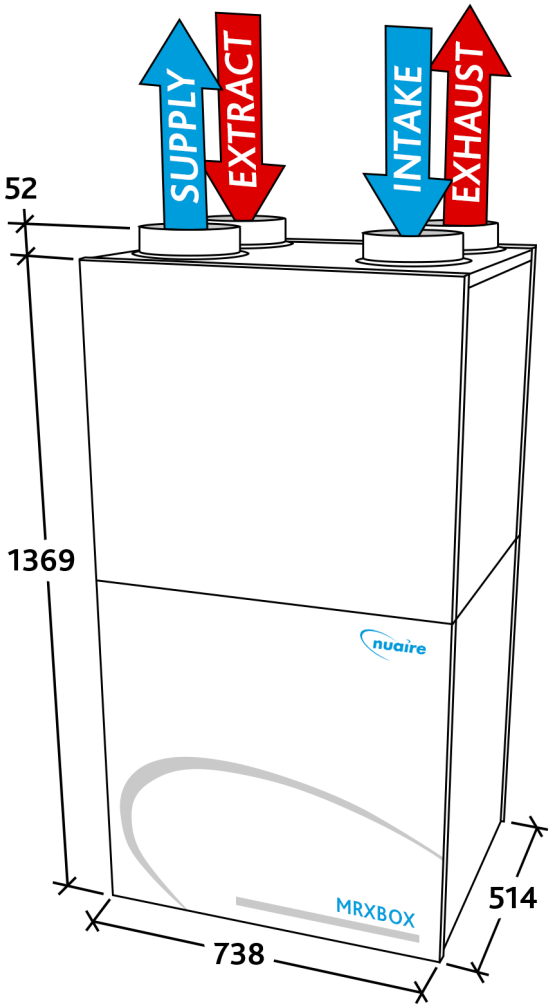

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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 %
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Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 3.20

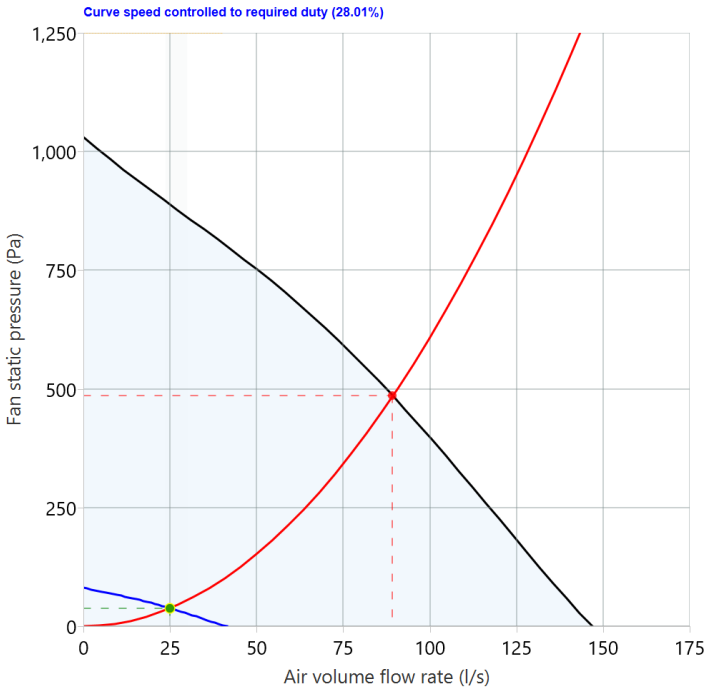
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

SUMMARY FAN DATA SHEET

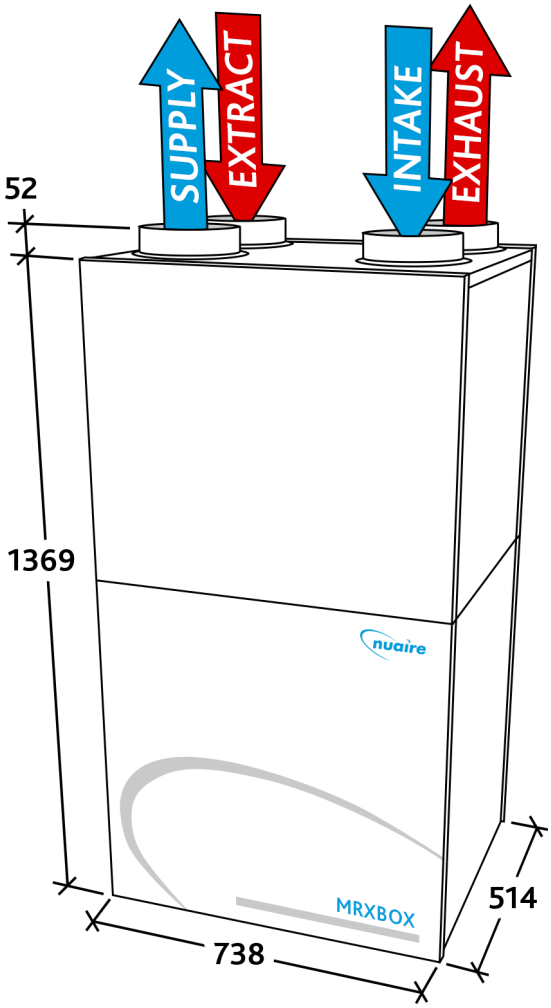
Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 16 Jun 2023 15:59 using software version 5.8.4563.0

Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

SUMMARY FAN DATA SHEET

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Project: n/a

Tottenham Mews
Location: 3.40

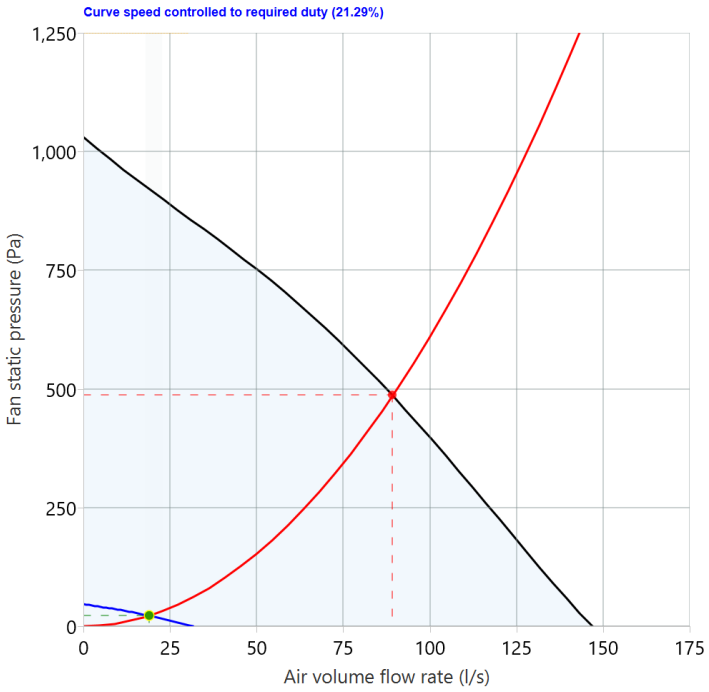
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	19 l/s at 22 Pa
Actual duty:	89 l/s at 487 Pa
Actual at required flow:	19 l/s at 920 Pa
When speed controlled to required duty (21.29%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.5 W/(l/s)**
Velocity at required duty:	0.108 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (21.29%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	40	42	35	28	18	<16	<16	<16	<16
Open Inlet (Intake & Extract)	38	37	35	27	21	<16	<16	<16	
Open Outlet (Supply & Exhaust)	40	44	35	38	28	19	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

SUMMARY FAN DATA SHEET

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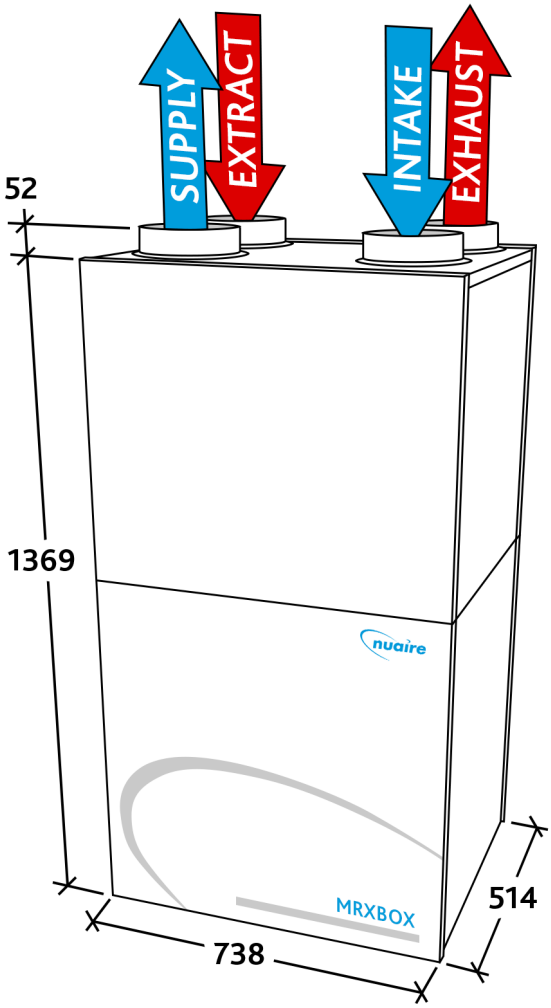
Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

SUMMARY FAN DATA SHEET

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Project: n/a

Tottenham Mews
Location: 3.50

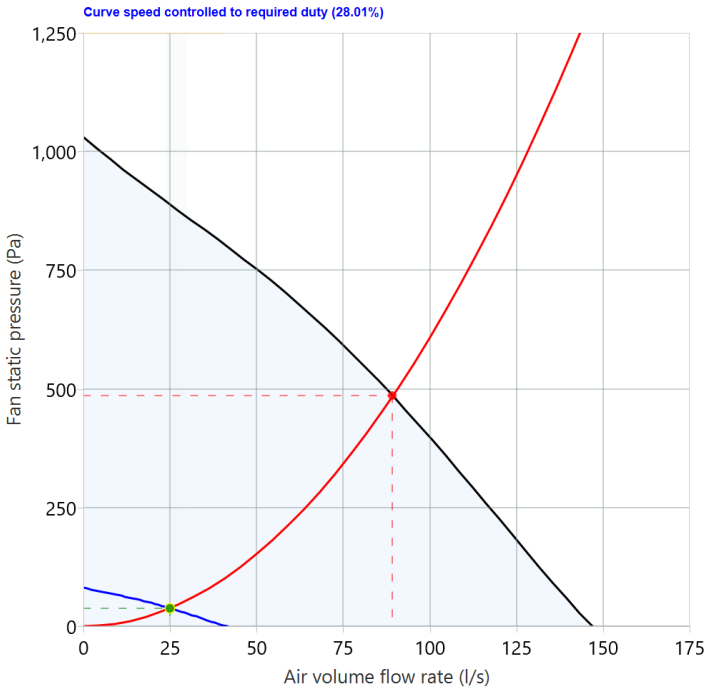
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

SUMMARY FAN DATA SHEET

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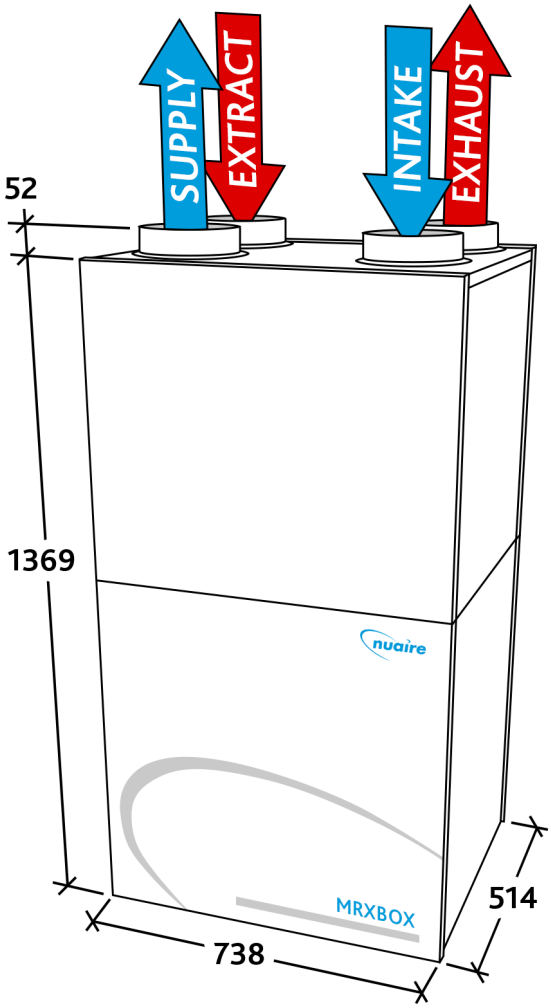
Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 4.10

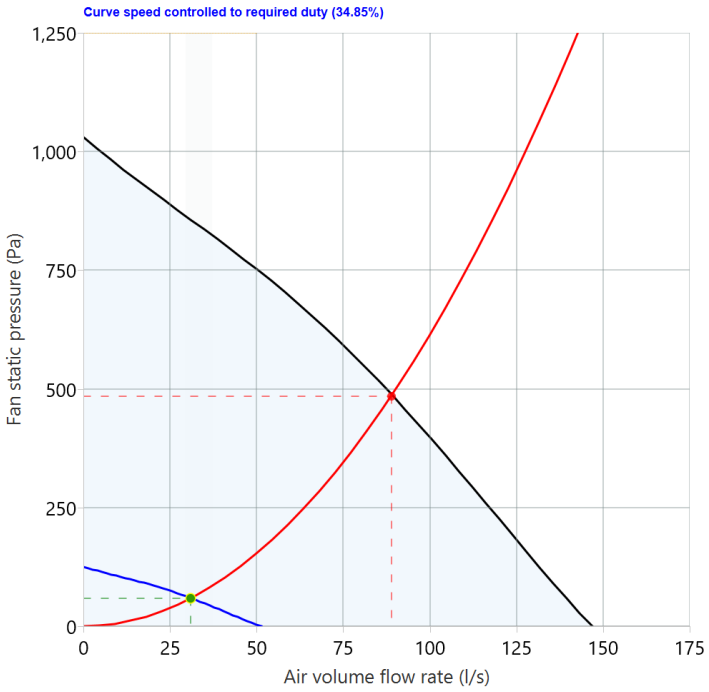
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	31 l/s at 59 Pa
Actual duty:	89 l/s at 484 Pa
Actual at required flow:	31 l/s at 857 Pa
When speed controlled to required duty (34.85%):	
Motor Input Power:	**0.013 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.175 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (34.85%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	44	47	40	32	21	<16	<16	<16	17
Open Inlet (Intake & Extract)	41	41	40	33	28	18	<16	<16	
Open Outlet (Supply & Exhaust)	41	47	43	46	34	27	17	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

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Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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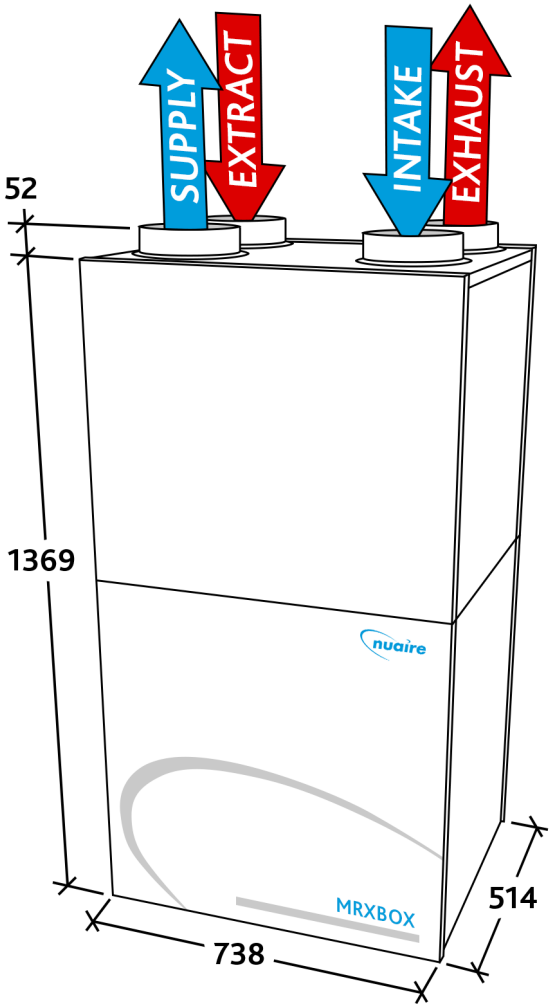

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 4.20

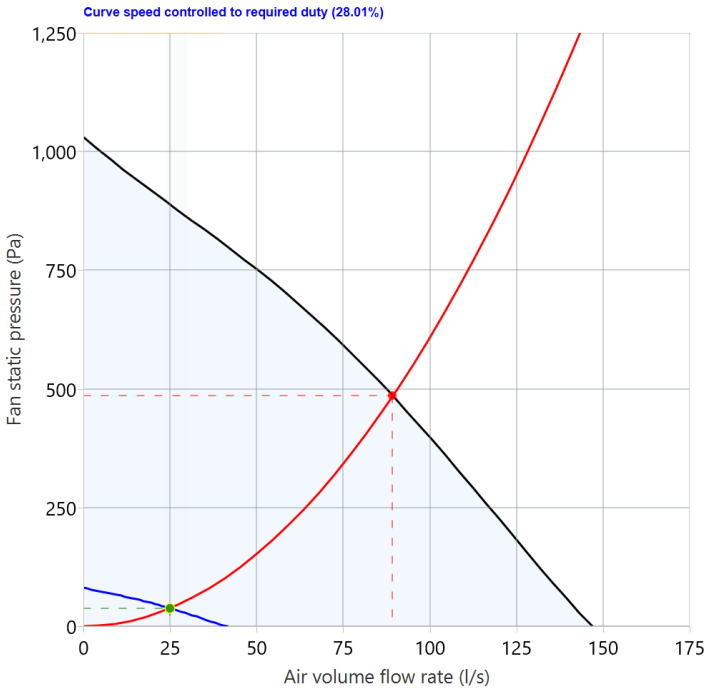
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

SUMMARY FAN DATA SHEET

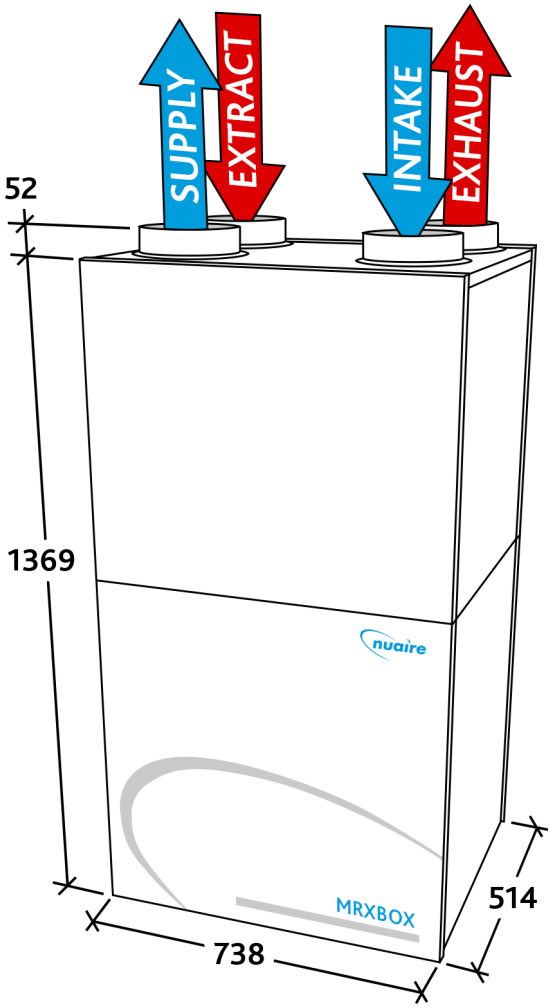
Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 16 Jun 2023 15:59 using software version 5.8.4563.0

Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 4.40

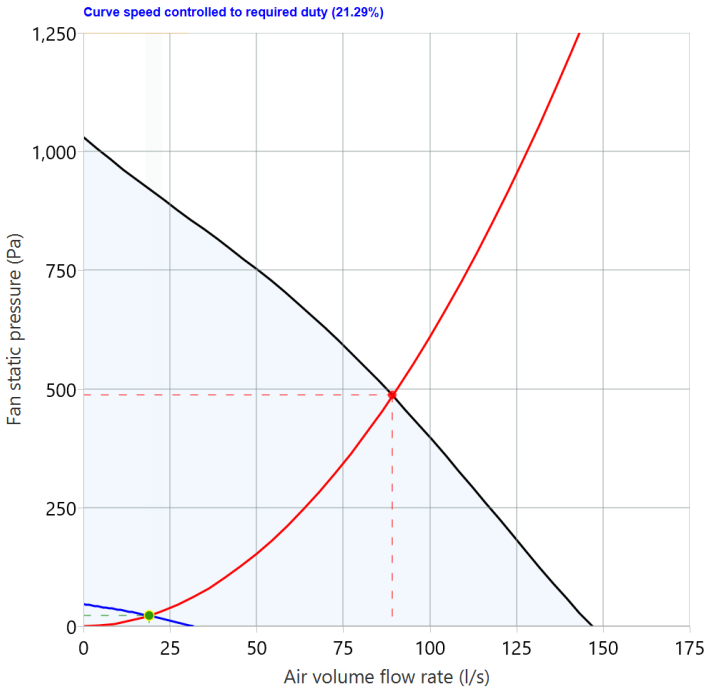
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	19 l/s at 22 Pa
Actual duty:	89 l/s at 487 Pa
Actual at required flow:	19 l/s at 920 Pa
When speed controlled to required duty (21.29%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.5 W/(l/s)**
Velocity at required duty:	0.108 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (21.29%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	40	42	35	28	18	<16	<16	<16	<16
Open Inlet (Intake & Extract)	38	37	35	27	21	<16	<16	<16	
Open Outlet (Supply & Exhaust)	40	44	35	38	28	19	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

SUMMARY FAN DATA SHEET

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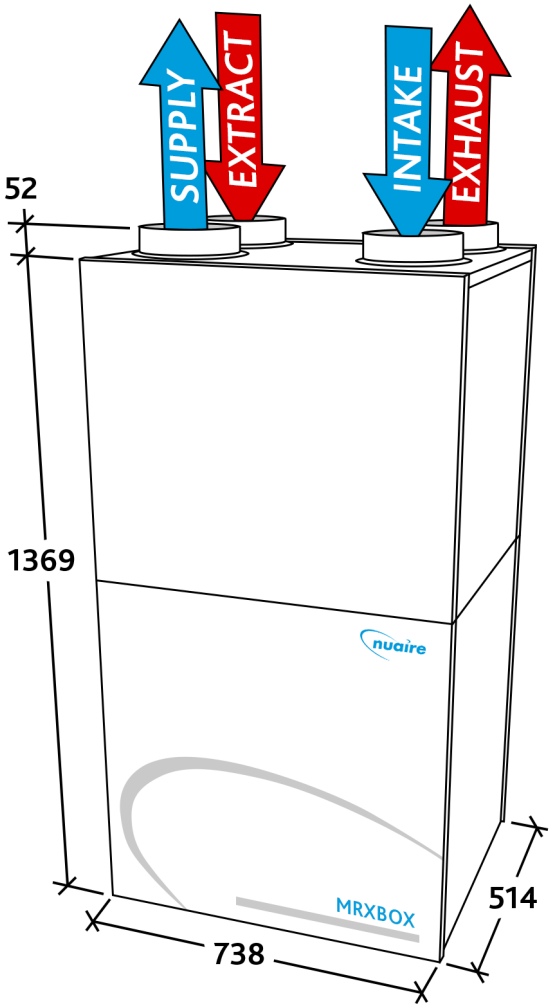
Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

SUMMARY FAN DATA SHEET

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Project: n/a

Tottenham Mews
Location: 4.50

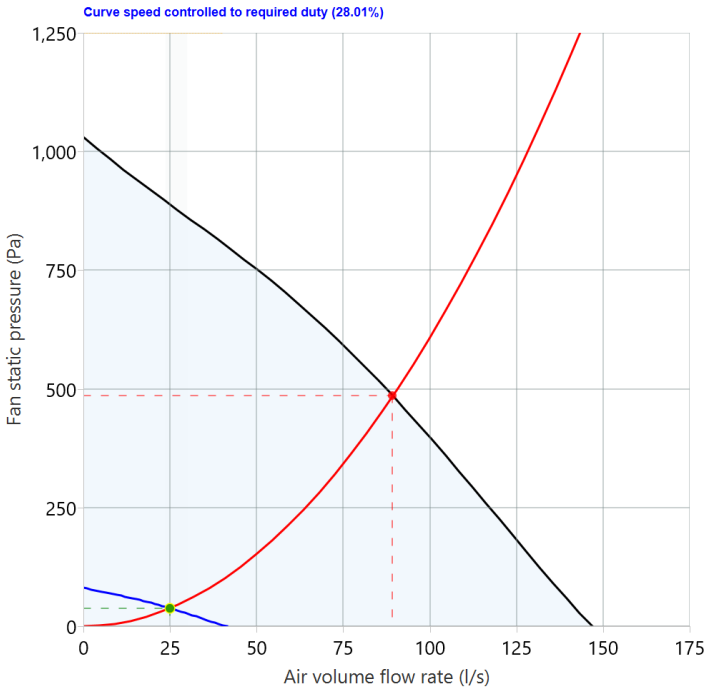
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

SUMMARY FAN DATA SHEET

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Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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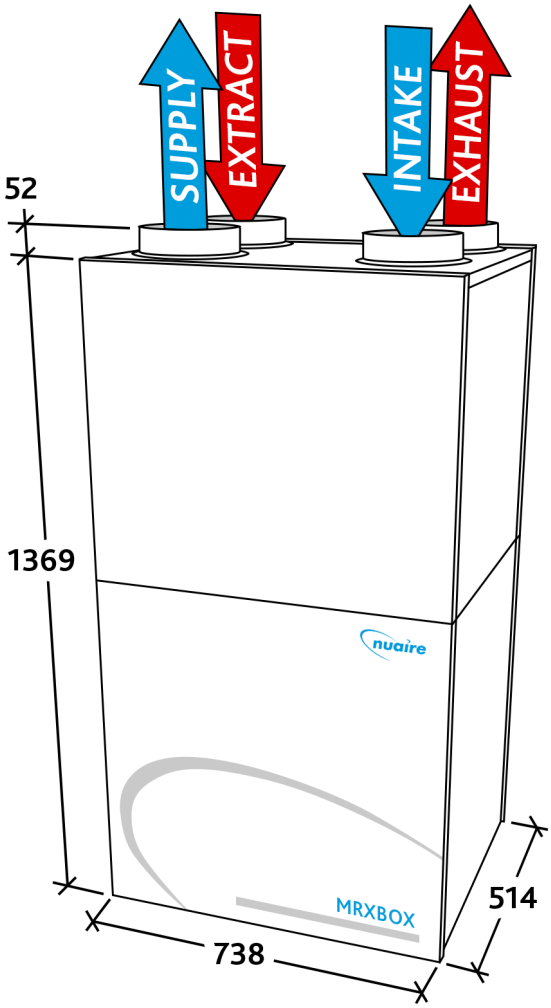

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 5.10

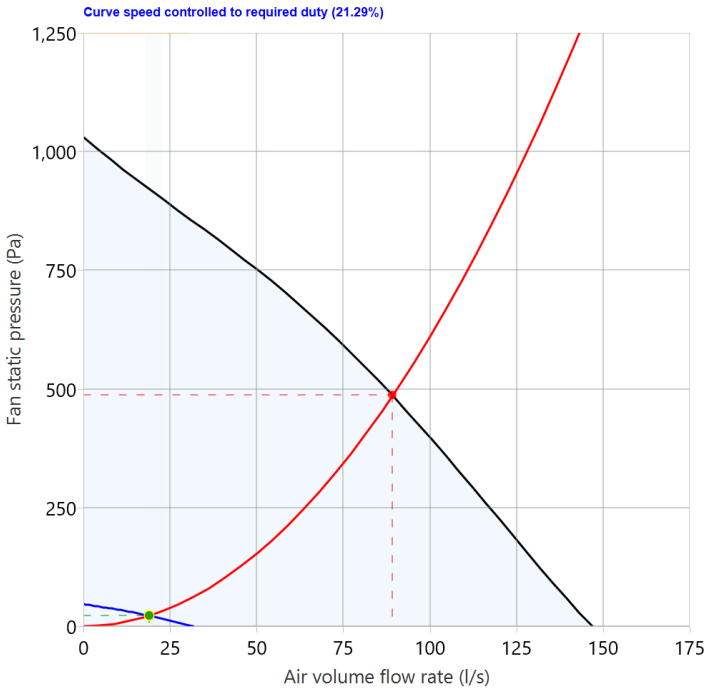
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	19 l/s at 22 Pa
Actual duty:	89 l/s at 487 Pa
Actual at required flow:	19 l/s at 920 Pa
When speed controlled to required duty (21.29%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.5 W/(l/s)**
Velocity at required duty:	0.108 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (21.29%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	40	42	35	28	18	<16	<16	<16	<16
Open Inlet (Intake & Extract)	38	37	35	27	21	<16	<16	<16	
Open Outlet (Supply & Exhaust)	40	44	35	38	28	19	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

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Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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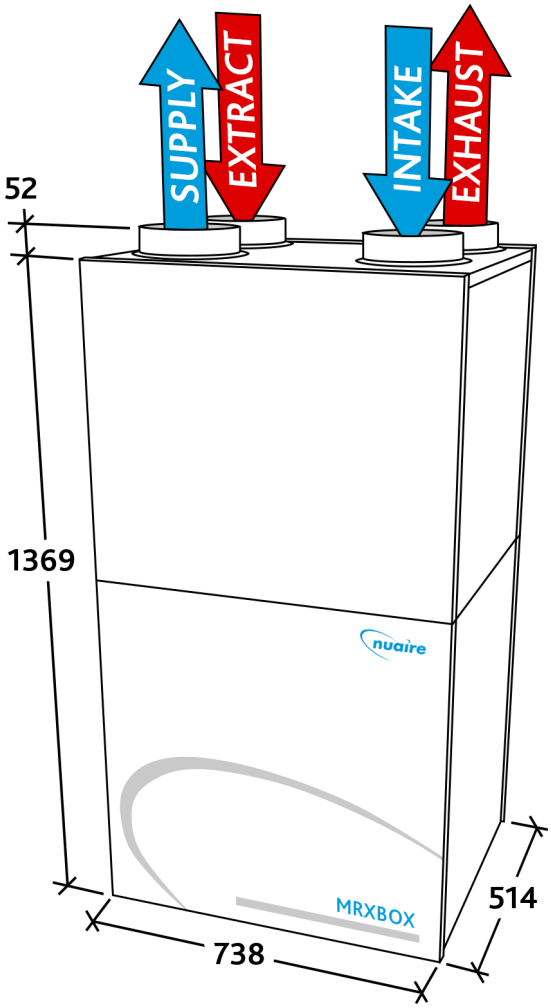

Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 5.20

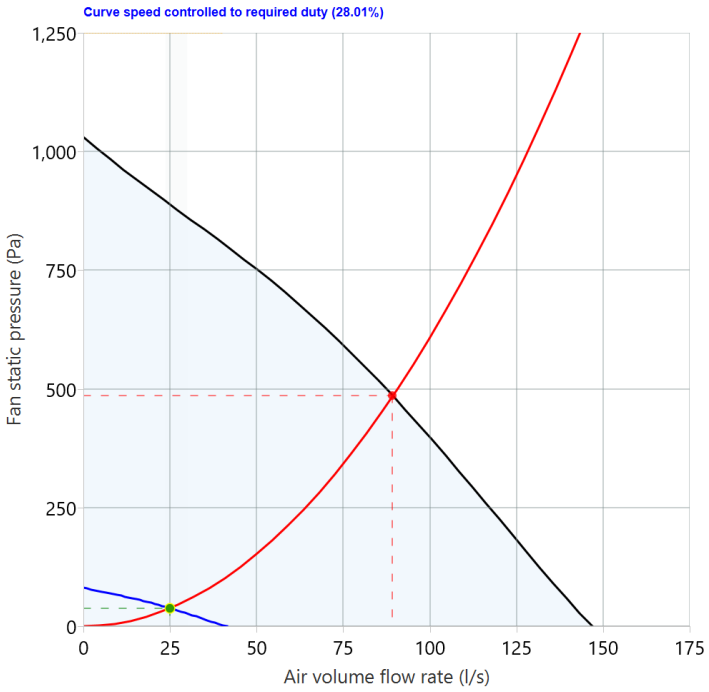
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
Open Inlet (Intake & Extract)	39	39	38	30	24	<16	<16	<16	
Open Outlet (Supply & Exhaust)	39	45	38	43	31	23	<16	<16	

Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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

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.

Additional Notes

Selected Ancillaries

1 x CM-THERM-CONTROL	Digital room thermostat
1 x MR-ECO-COOL-V	Vertical cooling module

MR-ECO-COOL-V - Vertical cooling module

Size:	514 mm (L) 738 mm (W) 653 mm (H)
Spigot Size (mm):	150mm Dia.
Weight:	65.0 kg

SUMMARY FAN DATA SHEET

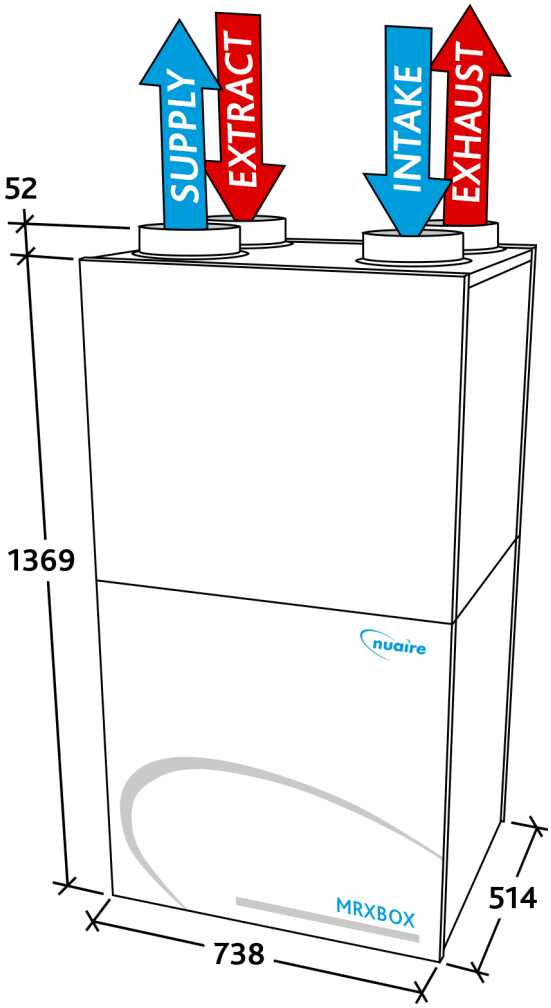
Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 16 Jun 2023 15:59 using software version 5.8.4563.0

Specification

The MRXBOXAB-ECO5-AECV and MRXBOXAB-ECO5-AEOHCV are specific to the MR-ECO-COOL-V cooling module and must not be specified independently.
MR-ECO-COOL-V electrical supply: 230V, 1 Phase, 50Hz
MR-ECO-COOL-V Running current: 3.5A
MR-ECO-COOL-V Motor input power: 0.65kW
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 21.5mm drain connection.
The unit shall be suitable for 150mm 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 provided within a white pre-painted or coated steel acoustic enclosure lined with a minimum of 20mm class '0' acoustic foam insulation to reduce breakout noise.
Flexible duct connections shall be within the enclosure, pre-fitted between the MVHR unit and the connection spigots on the top face of the enclosure. (Removing the need for flexible duct connectors outside of the unit which may cause breakout)
The MVHR unit shall be retained within the enclosure on a metal tray supported on turret type anti-vibration mounts of suitable deflection to ensure that vibration is not transmitted to the supporting structure.
All operational components of the MVHR unit shall be accessible via the front panel of the enclosure.
Bypass operation can be manually overrridden via an external switch in colder months so the unit continually recovers heat.
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.

Fan Dimensions

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



Length:	Width:	Height:
514	738	1369

Spigot size: 150
Duct size: 150
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	0.63	90%
Kitchen + 2 wet rooms	0.61	89%
Kitchen + 3 wet rooms	0.68	88%
Kitchen + 4 wet rooms	0.79	87%
Kitchen + 5 wet rooms	0.91	86%
Kitchen + 6 wet rooms	1.09	85%
Kitchen + 7 wet rooms	1.27	85%

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Project: n/a

Tottenham Mews
Location: 5.30

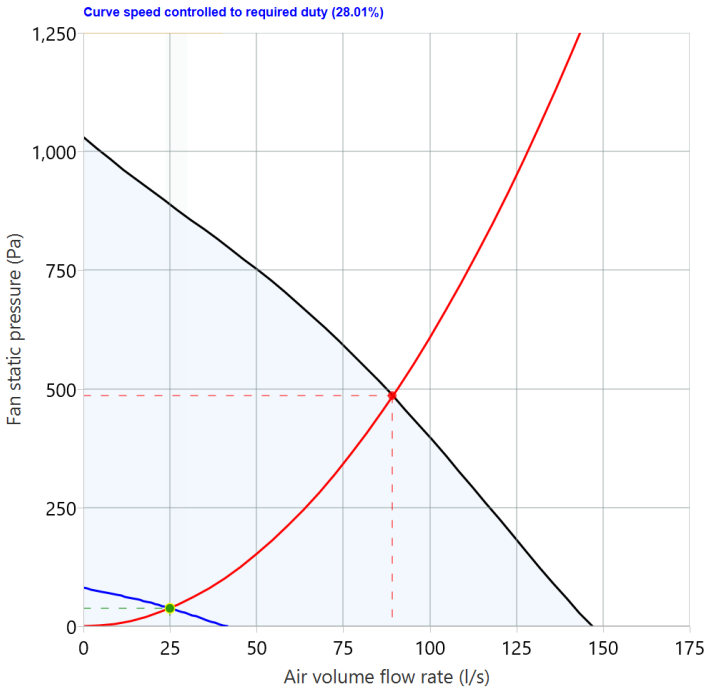
Technical Data

MRXBOX-ECO-AE - Wall Mounted Multi Room Xbox with Acoustic Enclosure

Fan Code:	**MRXBOXAB-ECO5-AEOHCV**
Required duty:	25 l/s at 38 Pa
Actual duty:	89 l/s at 486 Pa
Actual at required flow:	25 l/s at 888 Pa
When speed controlled to required duty (28.01%):	
Motor Input Power:	**0.01 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Velocity at required duty:	0.142 m/s
At full speed:	
Motor Input Power:	0.313 kW
Specific Fan Power:	3.5 W/(l/s)
Maximum Fan Speed:	4,120 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Nominal Motor Rating:	0.34 kW
Motor current (flc):	2.8 A
Motor starting current (sc):	2.8 A
Max. operating temp:	40°C
Weight:	56 kg

Starting currents are nominal.

Performance Chart



Sound Data (cooling off)

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (28.01%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	42	45	37	30	20	<16	<16	<16	<16
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Sound Data (cooling on)

Cooling can not be selected at air volumes less than 50 l/s

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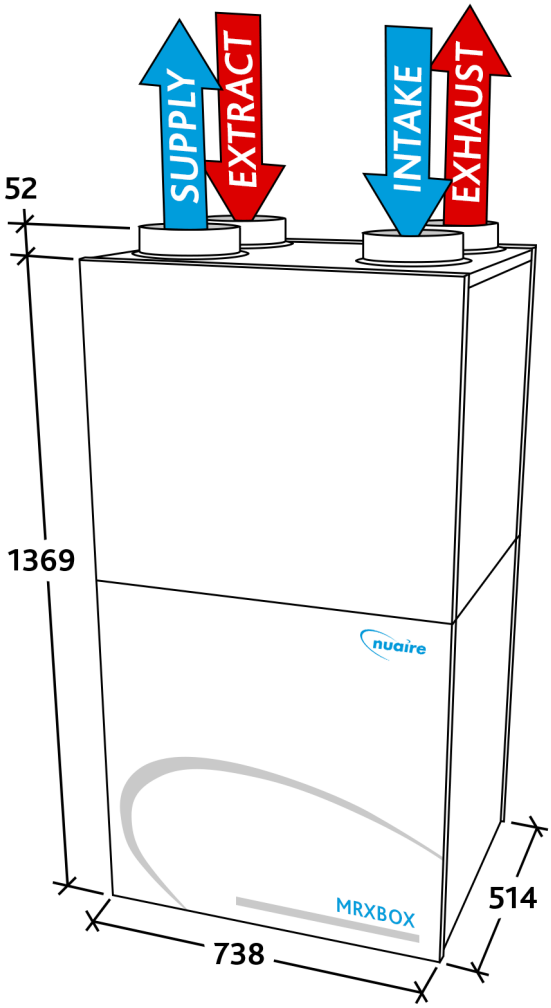

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