



TECHNICAL SUBMITTAL SHEET

Project Ref:	808 – 812 Tottenham High Street	Client:	Harris Calnan
Originator:	J Kehoe	Submission Ref:	TS17 – Revision 0
Issued to:	Jack Calnan	Date:	
		Description:	MVHR/B.01 – MVHR/GF.03 Mechanical Ventilation Heat Recovery Units

Items for Approval (Description):

- MVHR/B.01 - MVHR/B.02 / MVHR/GF.02 - MVHR/GF.02 - Mechanical Ventilation Heat Recovery Units

Make – Nuaire

Model – XBC25HA-NNN-E-LB1S

Type – Horizontal

Air Flow Rate (l/s) - 250

ESP (W/L/s) – 150 / B.02 – 200

SFP (W/L/s) – 1.4

Coil Type - Electric

Coil duty (kW) – 1.5

Summer Bypass – Yes

Electrical Supply (V/ph/Hz) – 230/1/50

Notes – Bottom Access

Model with electrical heater on low coil duty XBC25HA-ELN-E-LB1S

- MVHR/GF.01 - Mechanical Ventilation Heat Recovery Units

Make – Nuaire

Model – XBC15HA-NNN-E-LB1S

Type – Horizontal

Air Flow Rate (l/s) - 150

ESP (W/L/s) – 150

SFP (W/L/s) – 2

Coil Type - Electric

Coil duty (kW) – 3

Summer Bypass – Yes

Electrical Supply (V/ph/Hz) –

230/1/50

Notes – Bottom Access

Model with electrical heater on low coil duty XBC15HA-EHN-E-LB1S

Please respond by:

Signed:

Status A – The above item(s) has been reviewed and is accepted.	
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Status B - The above item(s) has been reviewed and is accepted subject to the following comments: Product code to include electrical heater (ELN instead of NNN) Ventilation fans and MEV's included as part of this submittal on pages 23-32 are not considered as part of this submittal and are considered via separate submittal provided for these elements.	Integration DOCUMENT COMMENT STATUS B COMMENTS TO BE INCORPORATED AS NOTED PROJECT No. 722 REVIEWED BY: HMG DATE: 27/08/202
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Status C – The above item(s) has been rejected for the following reasons:	
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Signed: _____ On _____ Date: _____ Behalf of: _____
--



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 06 Oct 2023 09:52 using software version 5.8.4578.0

Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: MVHR/B.01

Technical Data

XBC+

Fan Code: **XBC25HA-ELN-E-LB1S**

Installation Manual Links: **671948**

Supply

Required duty: 0.25 m³/s at 150 Pa

Actual duty: 0.351 m³/s at 295 Pa

Actual at required flow: 0.25 m³/s at 634 Pa

Extract

Required duty: 0.25 m³/s at 150 Pa

Actual duty: 0.351 m³/s at 295 Pa

Actual at required flow: 0.25 m³/s at 634 Pa

When speed controlled to required duty:

Motor input power: 0.36 kW

Specific Fan Power: 1.4 W/(l/s)

At full speed:

Motor input power: 0.993 kW

Specific Fan Power: 2.8 W/(l/s)

Maximum Fan Speed: 3,740 RPM

Electrical Supply: 230V 1 Phase 50 Hz

Nominal Motor Rating

Motor Current (flc): 5.1 A

Motor Current (sc): 5.1 A

Heater Power: 1.5 kW

Heater Current (flc): 6.5 A

Heater+Motor Current (flc): 11.6 A

Max. operating temp: 60°C

Weight: 242 kg

Sound Data

Noise calculated speed controlled to required duty (71.31%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	64	63	50	53	40	39	39	31	32
Induct Intake	72	66	64	66	61	57	49	48	46
Induct Supply	77	78	73	77	67	67	63	65	56
Induct Discharge	78	79	73	76	67	67	65	66	56
Induct Extract	71	65	63	66	60	57	49	49	45
For 100% speed:	+8	+8	+8	+8	+8	+8	+8	+8	

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

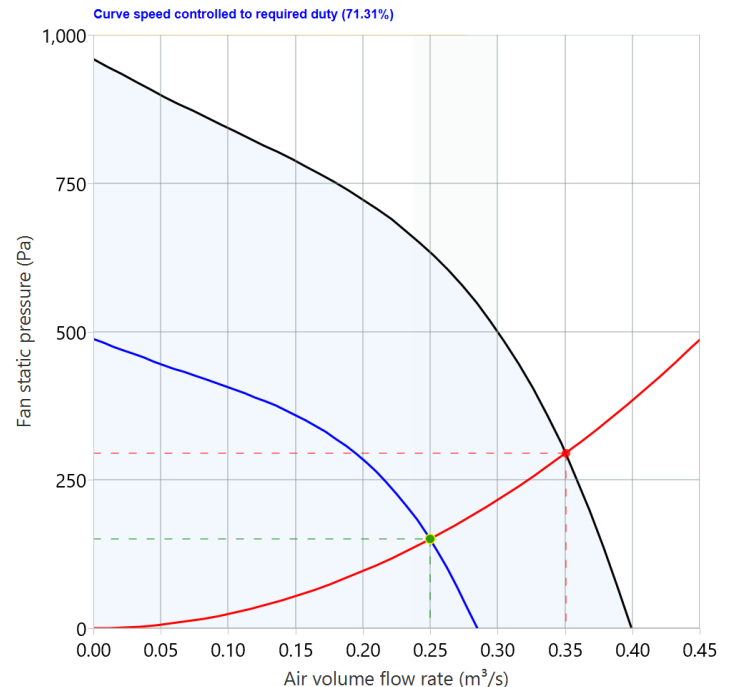
Specification

Nuaire XBOXER Supply & Extract HX unit. Incorporating high efficiency Counterflow plate heat exchanger 100% bypass facility (patent app. for) automatic control and actuator. Backward curved impellers, IP54 EC motors and speed control. Double skinned construction (patented). G4 Supply G4 Extract panel filters (spares included). Electric heater battery and burst fired temperature controller. EcoSmart Classic control of ventilation/heating. For ceiling/underfloor/slab mounted applications. Supply/Discharge connections on unit centreline; Intake/Extract connections are configurable on site to either side of unit. Rotational side mounted control. Unit will be supplied LEFT HANDED with bottom access for filter removal and replacement. 5 year warranty (UK and Ireland only)

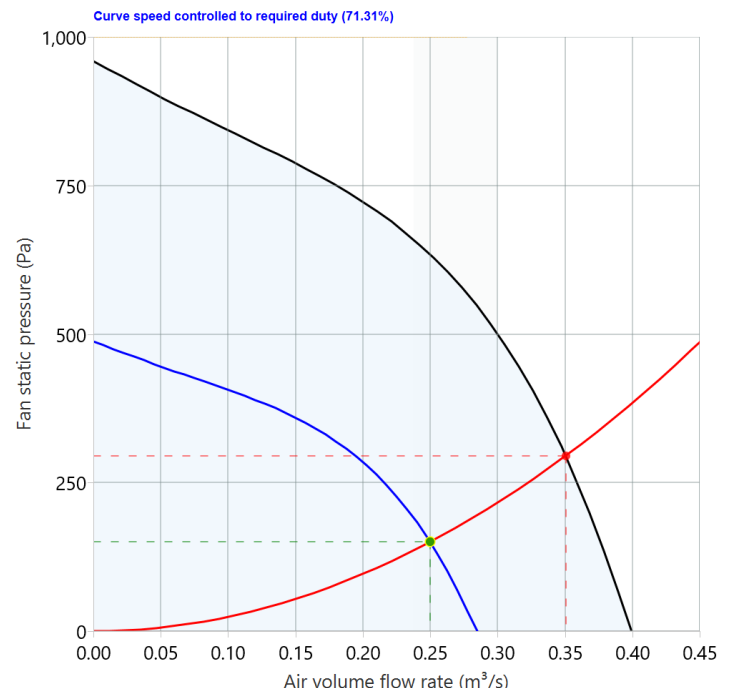
ES-LCD

LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

Performance Chart (supply)



Performance Chart (extract)



Additional Notes

Selected Ancillaries

1 x ES-LCD

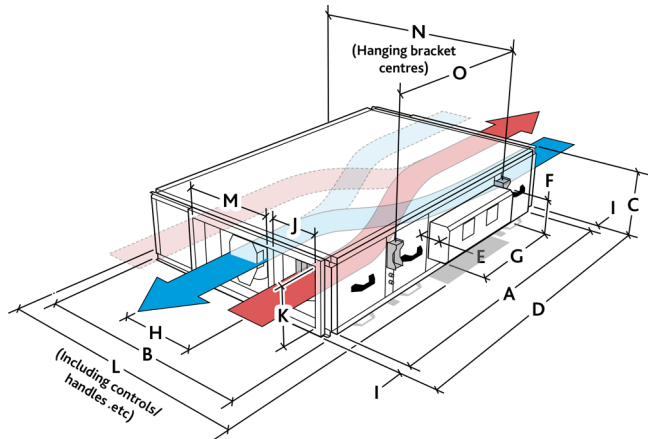
Ecosmart LCD Touch Screen User Control (White)

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Fan Dimensions

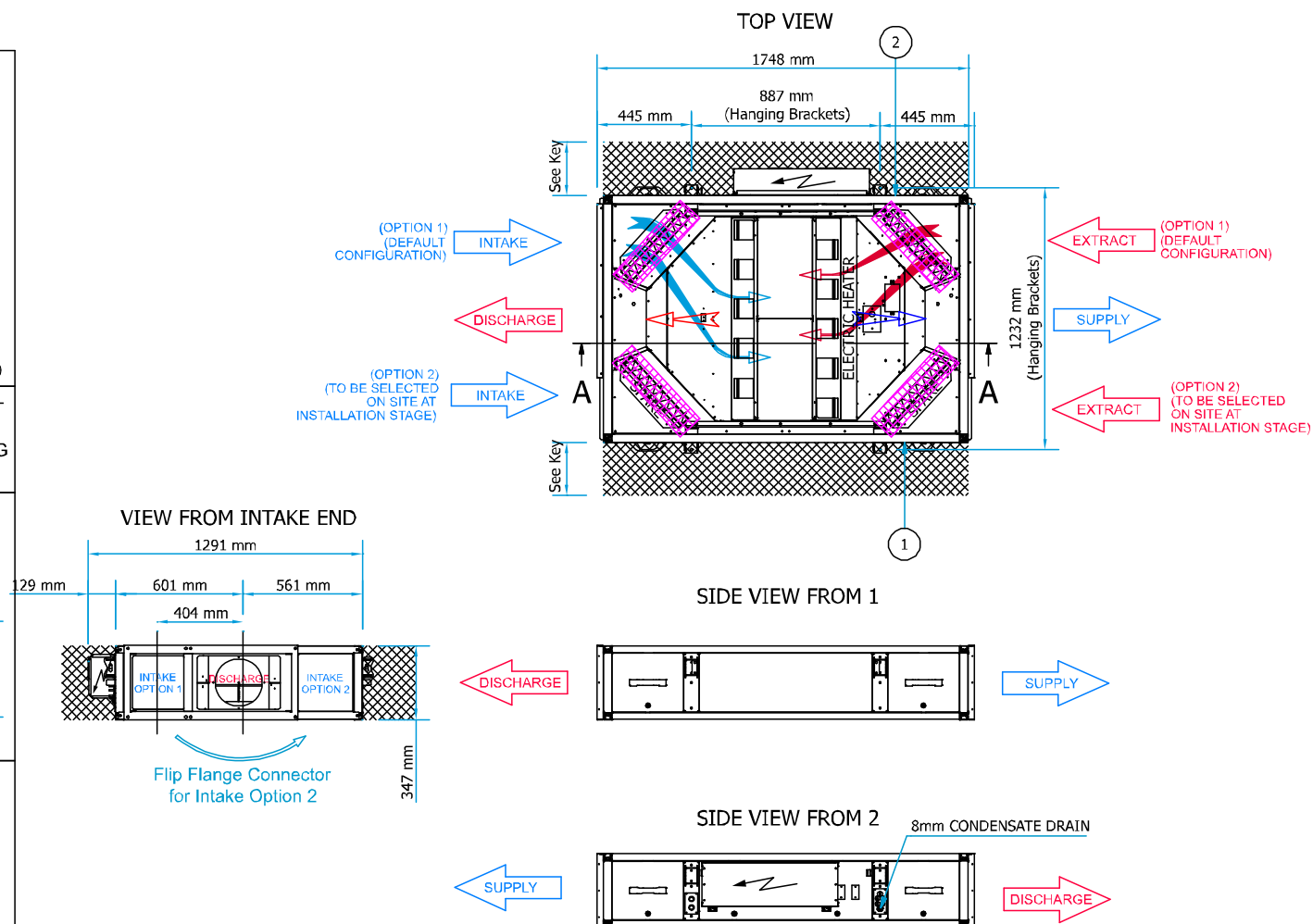
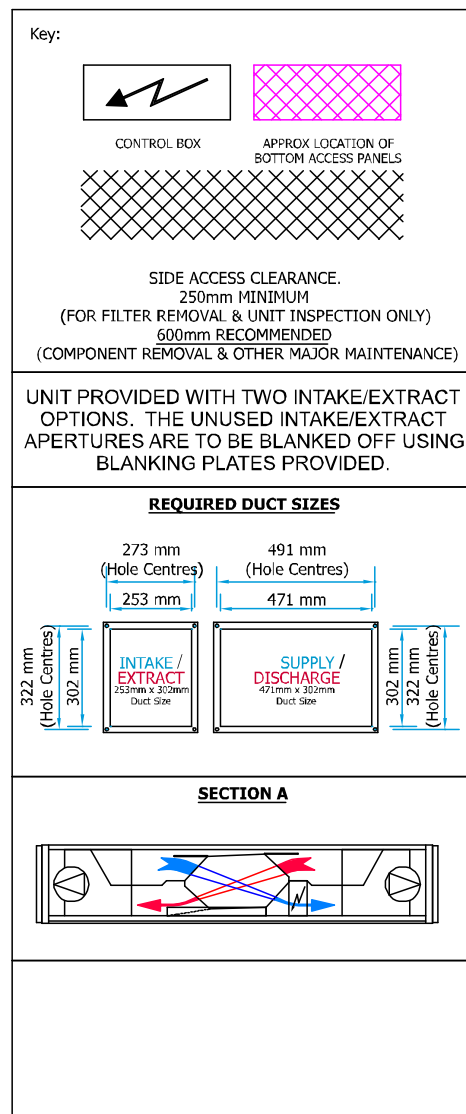


A	B	C	D	E	F	G	H	I
1713	1160	349	1773	130	210	640	404	30
J	K	L	M	kg				
252	270	1369	471	242.0				

Length: Width: Height:
1773 1160 349

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.



You can download this CAD drawing from <http://nua-www01.domain.nuaire.co.uk/CAD/xbcplus25-he-ba-l.dwg>

Please Note: This drawing details the factory-standard unit ONLY (unless silencers are shown too). The total length or footprint may differ from that shown depending on the additional ancillaries offered on the quote or if the unit code ends in -QA*****

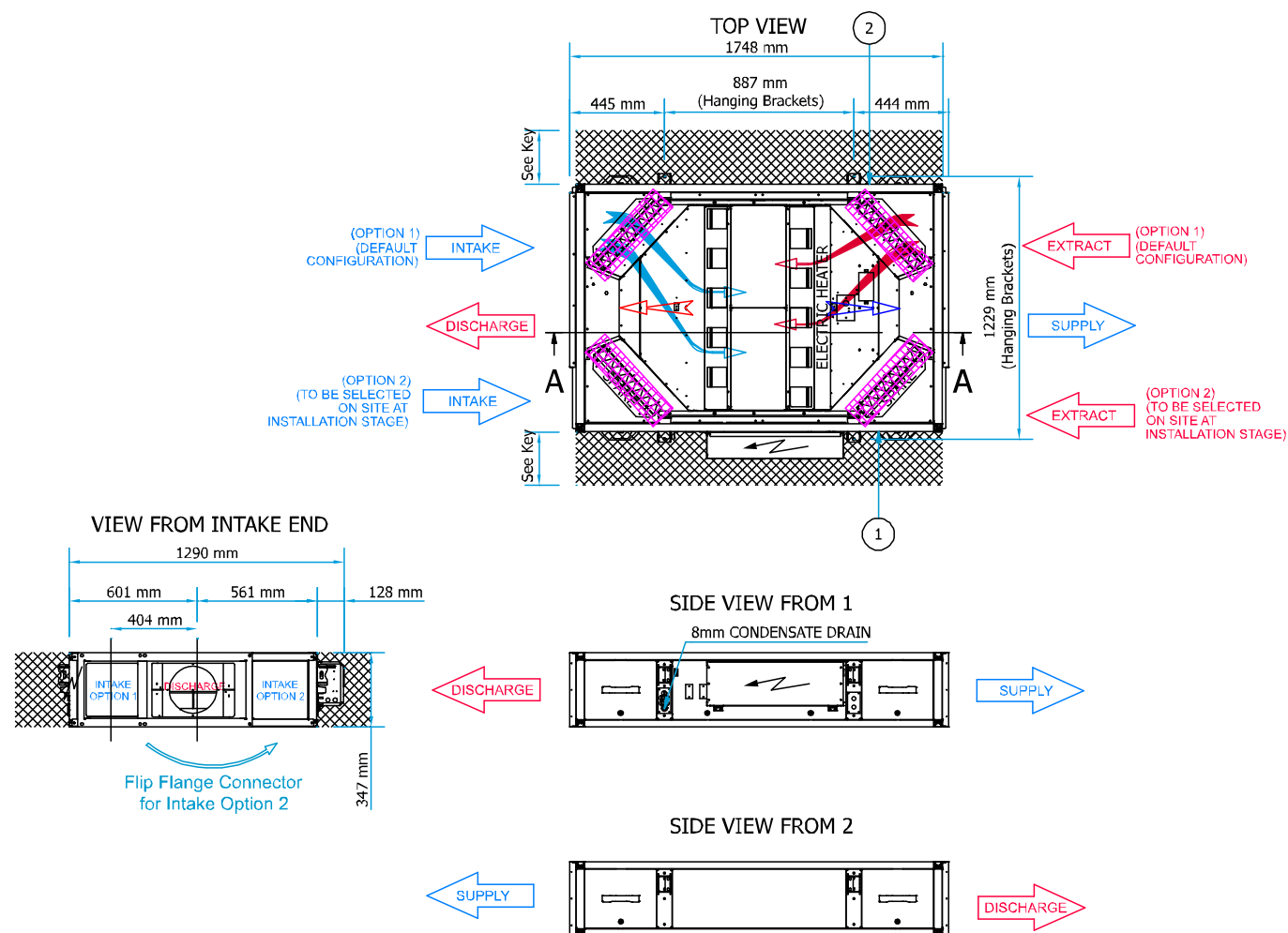
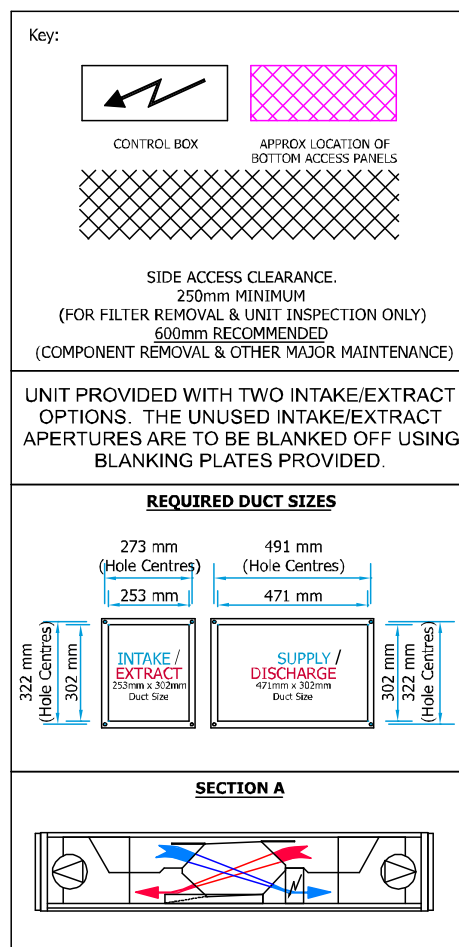
Please **DO NOT** sign this drawing to confirm handings.
Please request the official handing drawings from Nuaire.

Drawing generated automatically by Nuaire Selector

Do **NOT** scale from this drawing.

nuaire

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Tel: 02920 858 6200 <https://www.nuaire.co.uk>



You can download this CAD drawing from <http://nua-www01.domain.nuaire.co.uk/CAD/xbcplus25-he-ba-r.dwg>

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: MVHR/B.02

Technical Data

XBC+

Fan Code: **XBC25HA-ELN-E-LB1S**

Installation Manual Links: **671948**

Supply

Required duty: 0.25 m³/s at 200 Pa

Actual duty: 0.336 m³/s at 362 Pa

Actual at required flow: 0.25 m³/s at 634 Pa

Extract

Required duty: 0.25 m³/s at 200 Pa

Actual duty: 0.336 m³/s at 362 Pa

Actual at required flow: 0.25 m³/s at 634 Pa

When speed controlled to required duty:

Motor input power: **0.407 kW**

Specific Fan Power: **1.6 W/(l/s)**

At full speed:

Motor input power: 0.989 kW

Specific Fan Power: 2.9 W/(l/s)

Maximum Fan Speed: 3,740 RPM

Electrical Supply: 230V 1 Phase 50 Hz

Nominal Motor Rating

Motor Current (flc): 5.1 A

Motor Current (sc): 5.1 A

Heater Power: 1.5 kW

Heater Current (flc): 6.5 A

Heater+Motor Current (flc): 11.6 A

Max. operating temp: 60°C

Weight: 242 kg

Sound Data

Noise calculated speed controlled to required duty (74.38%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	65	64	51	54	41	40	40	32	33
Induct Intake	73	67	65	67	62	58	50	49	47
Induct Supply	78	79	74	78	68	68	64	66	57
Induct Discharge	79	80	74	77	68	68	66	67	56
Induct Extract	72	66	64	67	61	58	50	50	46
For 100% speed:	+7	+7	+7	+7	+7	+7	+7	+7	

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

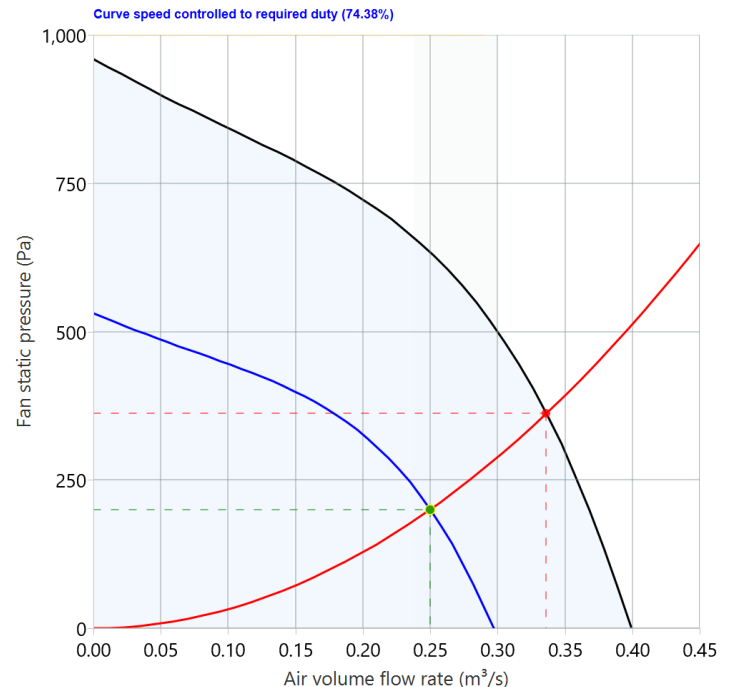
Specification

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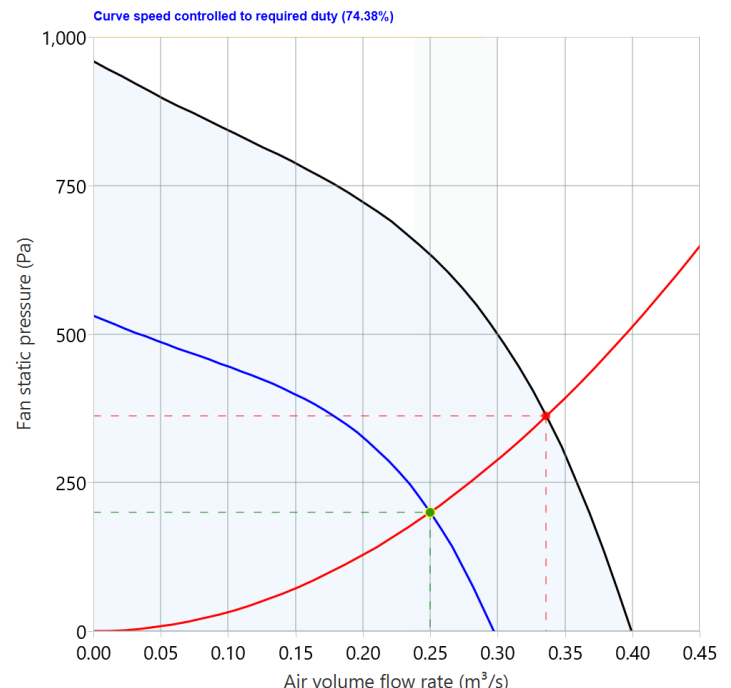
ES-LCD

LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

Performance Chart (supply)



Performance Chart (extract)



Additional Notes

Selected Ancillaries

1 x ES-LCD

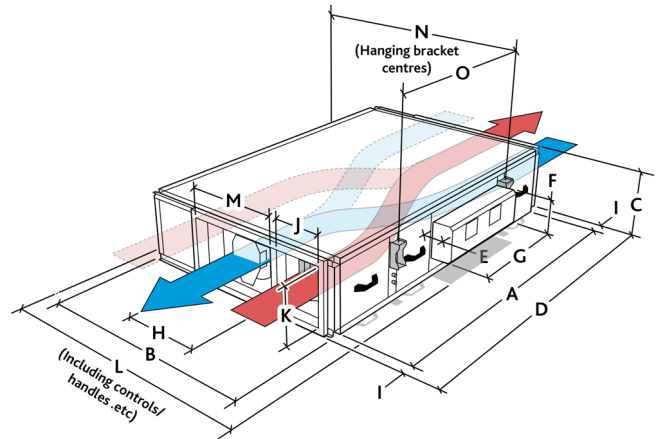
Ecosmart LCD Touch Screen User Control (White)

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk

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Fan Dimensions



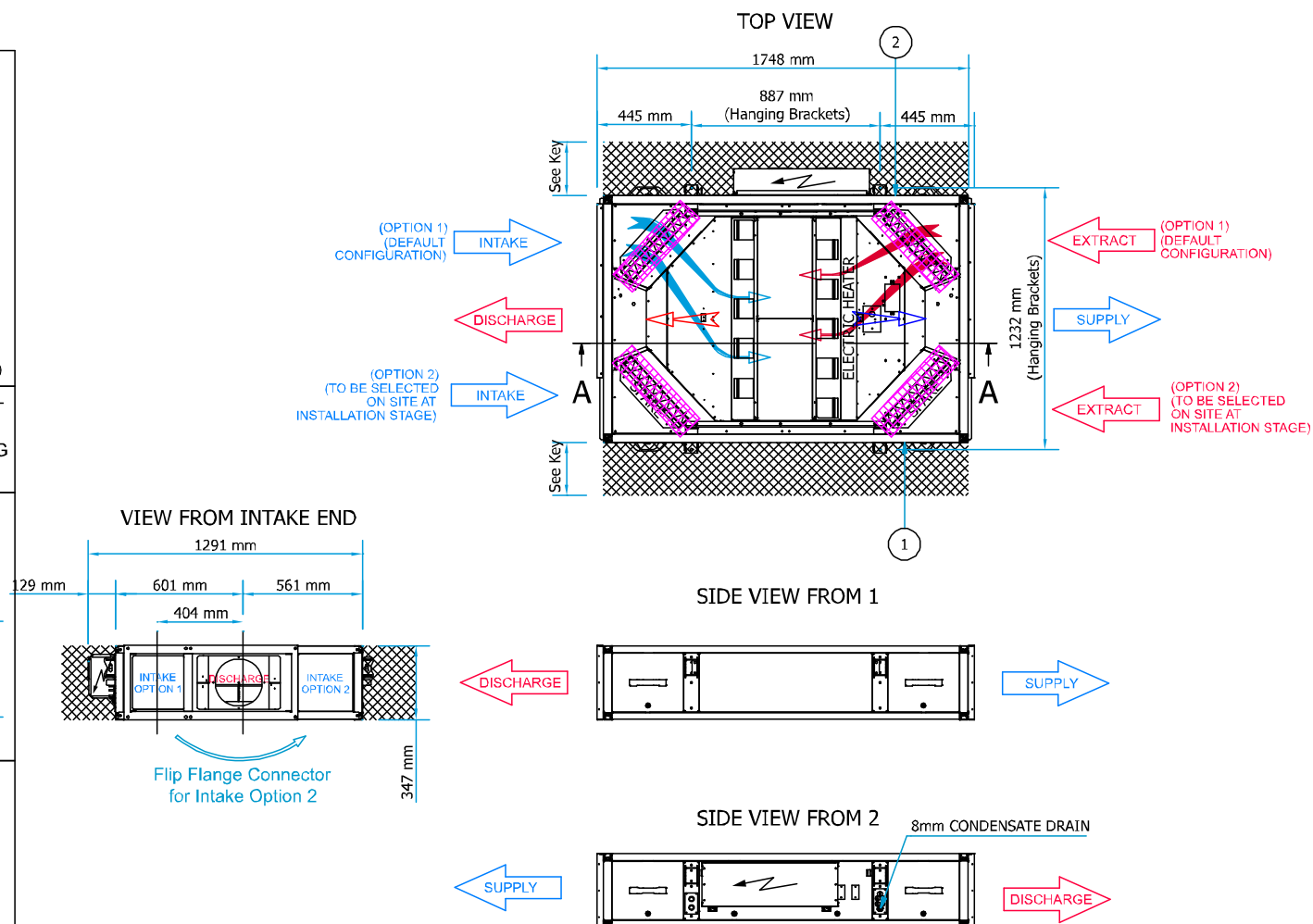
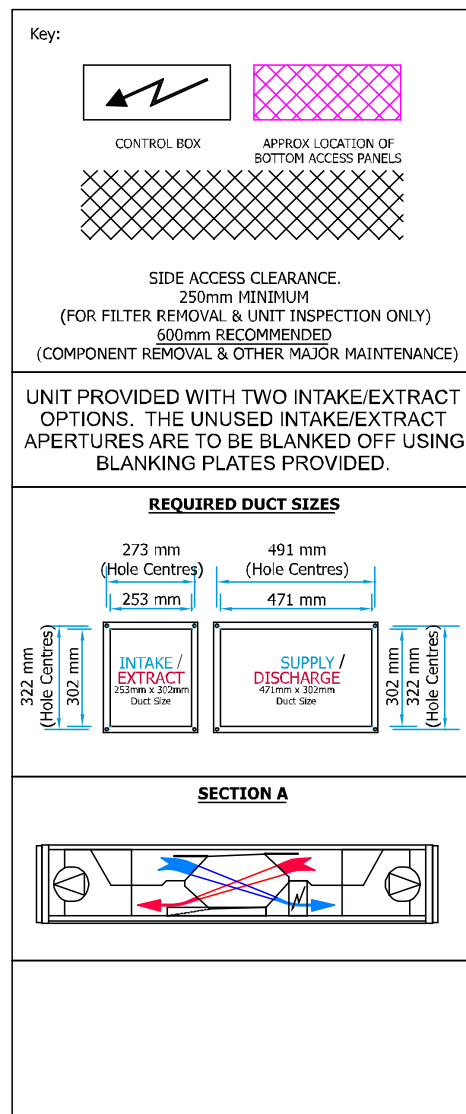
A	B	C	D	E	F	G	H	I
1713	1160	349	1773	130	210	640	404	30
J	K	L	M	kg				
252	270	1369	471	242.0				

Length: Width: Height:

1773 1160 349

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.



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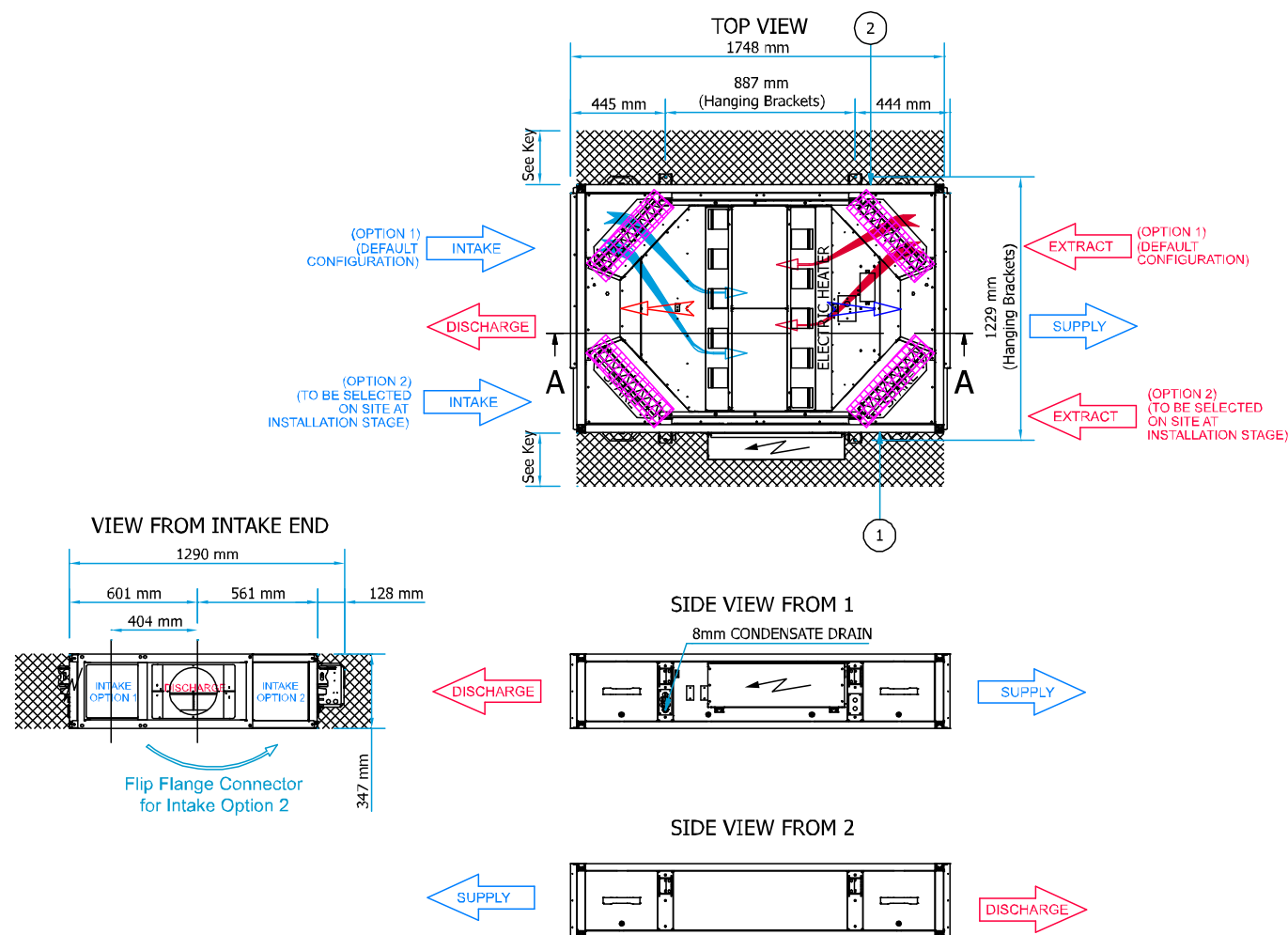
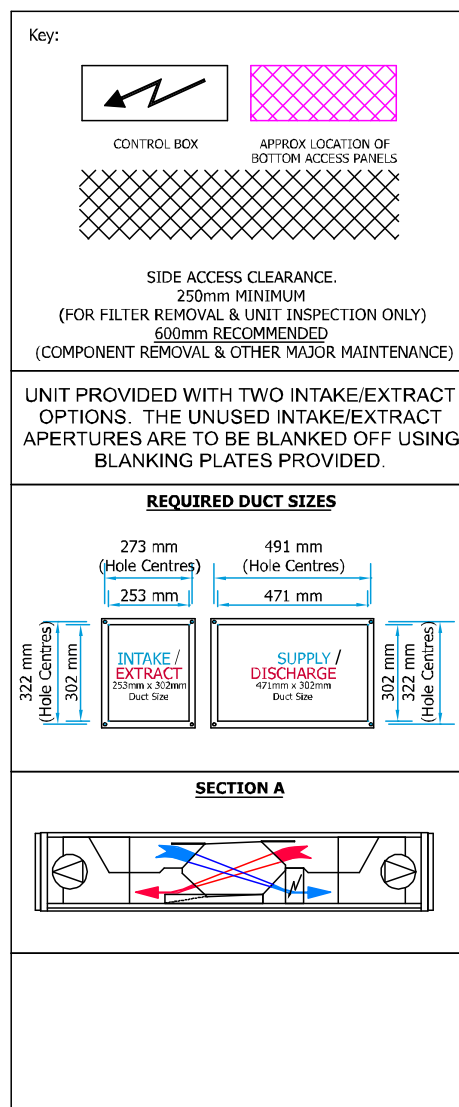
Please **DO NOT** sign this drawing to confirm handings.
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Drawing generated automatically by Nuaire Selector

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SUMMARY FAN DATA SHEET

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: MVHR/GF.01

Technical Data

XBC+

Fan Code: **XBC15HA-EHN-E-LB1S**

Installation Manual Links: **671948**

Supply

Required duty: 0.15 m³/s at 150 Pa

Actual duty: 0.159 m³/s at 169 Pa

Actual at required flow: 0.15 m³/s at 218 Pa

Extract

Required duty: 0.15 m³/s at 150 Pa

Actual duty: 0.159 m³/s at 169 Pa

Actual at required flow: 0.15 m³/s at 218 Pa

When speed controlled to required duty:

Motor input power: **0.295 kW**

Specific Fan Power: **2.0 W/(l/s)**

At full speed:

Motor input power: 0.354 kW

Specific Fan Power: 2.2 W/(l/s)

Maximum Fan Speed: 4,000 RPM

Electrical Supply: 230V 1 Phase 50 Hz

Nominal Motor Rating 0.34 kW

Motor Current (flc): 2.8 A

Motor Current (sc): 2.8 A

Heater Power: 3 kW

Heater Current (flc): 13 A

Heater+Motor Current (flc): 15.8 A

Max. operating temp: 60°C

Weight: 195 kg

Sound Data

Noise calculated speed controlled to required duty (94.11%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	59	55	40	41	39	35	32	21	24
Induct Intake	68	58	53	54	60	53	45	41	41
Induct Supply	73	70	63	64	66	62	57	55	49
Induct Discharge	73	71	63	65	66	63	58	56	49
Induct Extract	67	57	53	53	59	53	43	39	40
For 100% speed:	+2	+2	+2	+2	+2	+2	+2	+2	

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

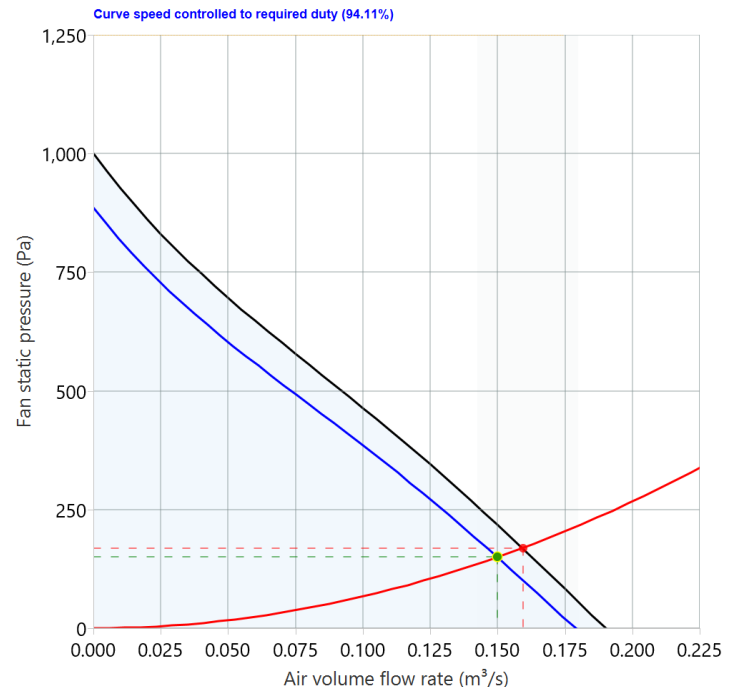
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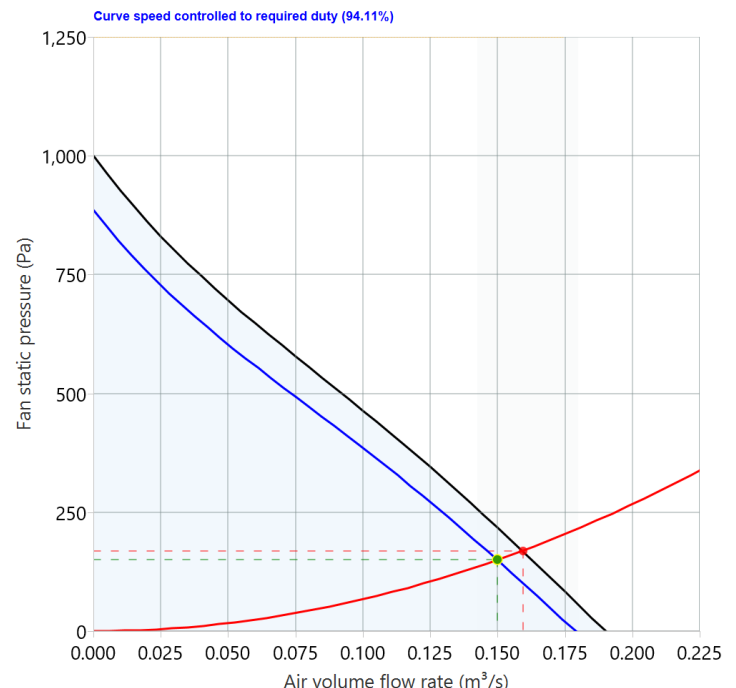
ES-LCD

LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

Performance Chart (supply)



Performance Chart (extract)



Additional Notes

Selected Ancillaries

1 x ES-LCD

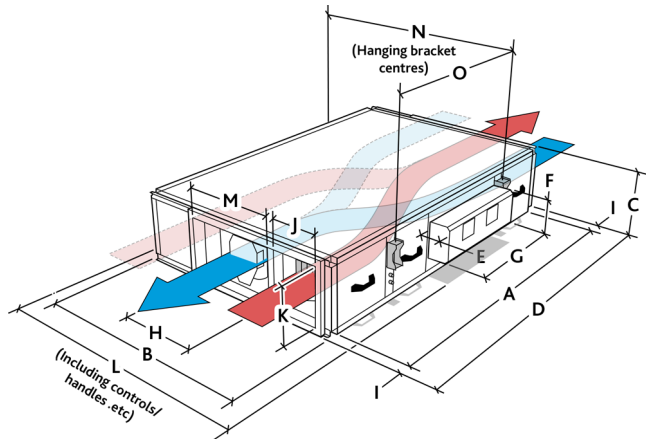
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Fan Dimensions



A	B	C	D	E	F	G	H	I
1600	1000	260	1660	140	210	640	334	30
J	K	L	M	N	O	kg		
238	220	1205	347	1068	832	195.0		

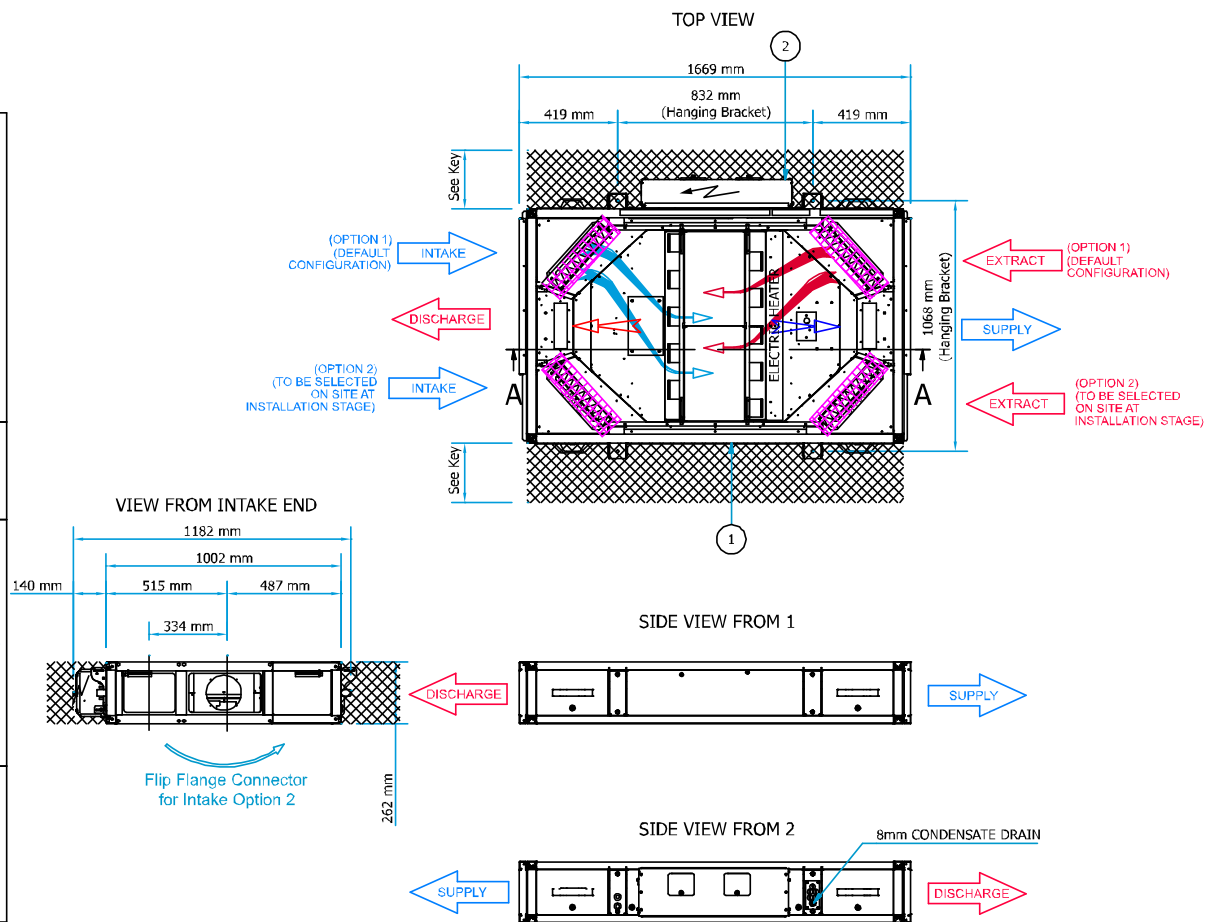
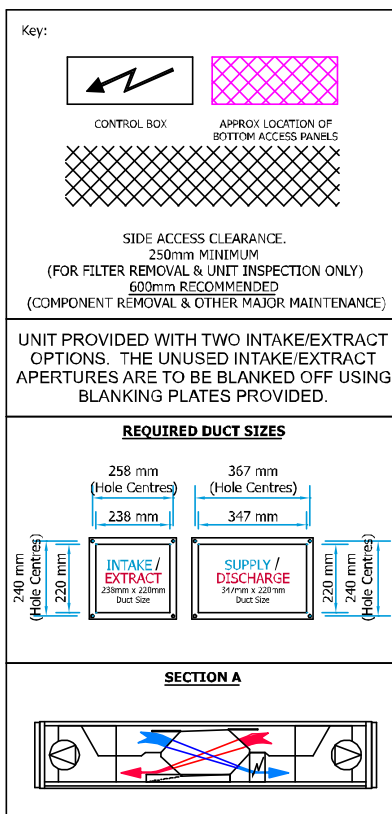
Length: Width: Height:

1600 1000 260

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Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

A-A (0.06 : 1)



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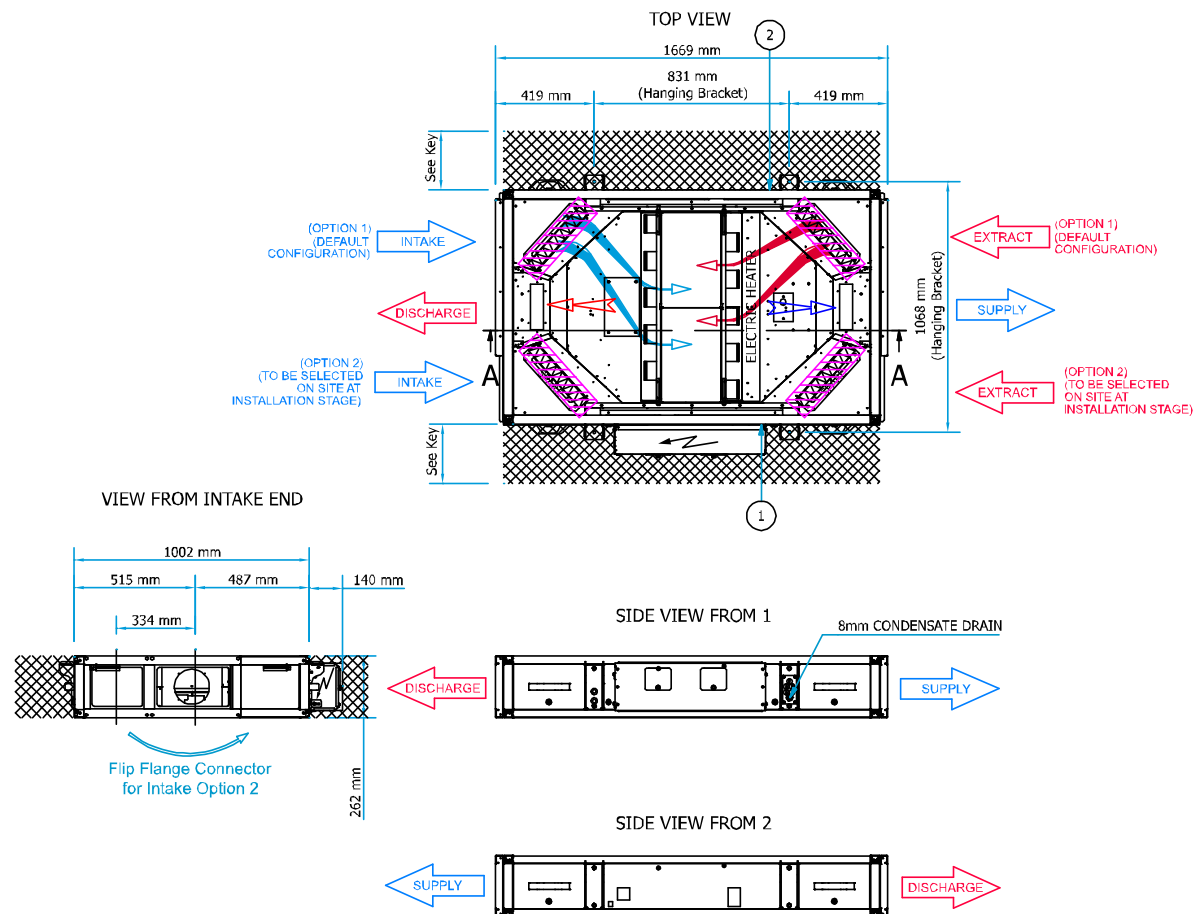
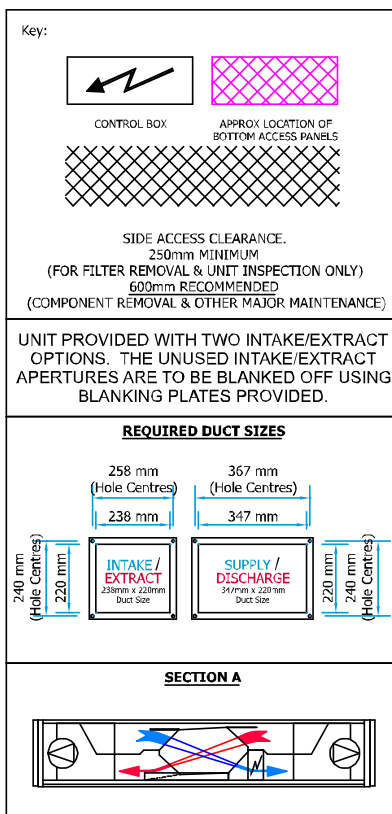
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A-A (0.06 : 1)



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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: MVHR/GF.02

Technical Data

XBC+

Fan Code: **XBC25HA-ELN-E-LB1S**

Installation Manual Links: **671948**

Supply

Required duty: 0.25 m³/s at 150 Pa

Actual duty: 0.351 m³/s at 295 Pa

Actual at required flow: 0.25 m³/s at 634 Pa

Extract

Required duty: 0.25 m³/s at 150 Pa

Actual duty: 0.351 m³/s at 295 Pa

Actual at required flow: 0.25 m³/s at 634 Pa

When speed controlled to required duty:

Motor input power: **0.36 kW**

Specific Fan Power: **1.4 W/(l/s)**

At full speed:

Motor input power: 0.993 kW

Specific Fan Power: 2.8 W/(l/s)

Maximum Fan Speed: 3,740 RPM

Electrical Supply: 230V 1 Phase 50 Hz

Nominal Motor Rating

Motor Current (flc): 5.1 A

Motor Current (sc): 5.1 A

Heater Power: 1.5 kW

Heater Current (flc): 6.5 A

Heater+Motor Current (flc): 11.6 A

Max. operating temp: 60°C

Weight: 242 kg

Sound Data

Noise calculated speed controlled to required duty (71.31%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	64	63	50	53	40	39	39	31	32
Induct Intake	72	66	64	66	61	57	49	48	46
Induct Supply	77	78	73	77	67	67	63	65	56
Induct Discharge	78	79	73	76	67	67	65	66	56
Induct Extract	71	65	63	66	60	57	49	49	45
For 100% speed:	+8	+8	+8	+8	+8	+8	+8	+8	

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

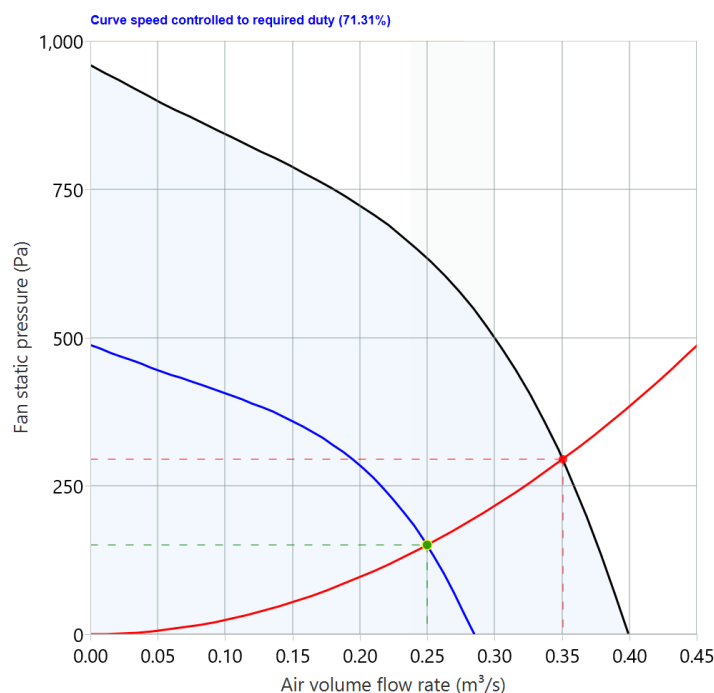
Specification

Nuaire XBOXER Supply & Extract HX unit. Incorporating high efficiency Counterflow plate heat exchanger 100% bypass facility (patent app. for) automatic control and actuator. Backward curved impellers, IP54 EC motors and speed control. Double skinned construction (patented). G4 Supply G4 Extract panel filters (spares included). Electric heater battery and burst fired temperature controller. EcoSmart Classic control of ventilation/heating. For ceiling/underfloor/slab mounted applications. Supply/Discharge connections on unit centreline; Intake/Extract connections are configurable on site to either side of unit. Rotational side mounted control. Unit will be supplied LEFT HANDED with bottom access for filter removal and replacement. 5 year warranty (UK and Ireland only)

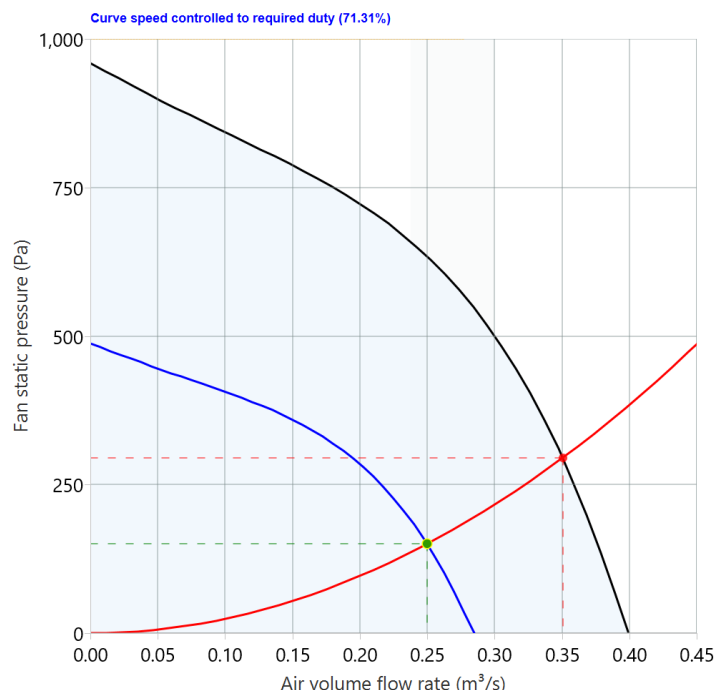
ES-LCD

LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

Performance Chart (supply)



Performance Chart (extract)



Additional Notes

Selected Ancillaries

1 x ES-LCD

Ecosmart LCD Touch Screen User Control (White)

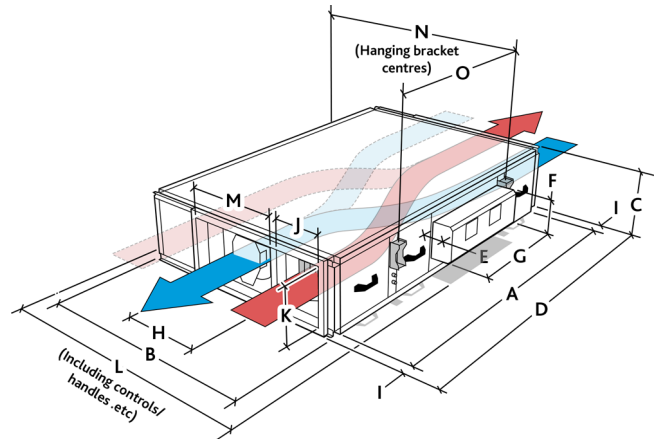
Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk

UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497

Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.

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Fan Dimensions



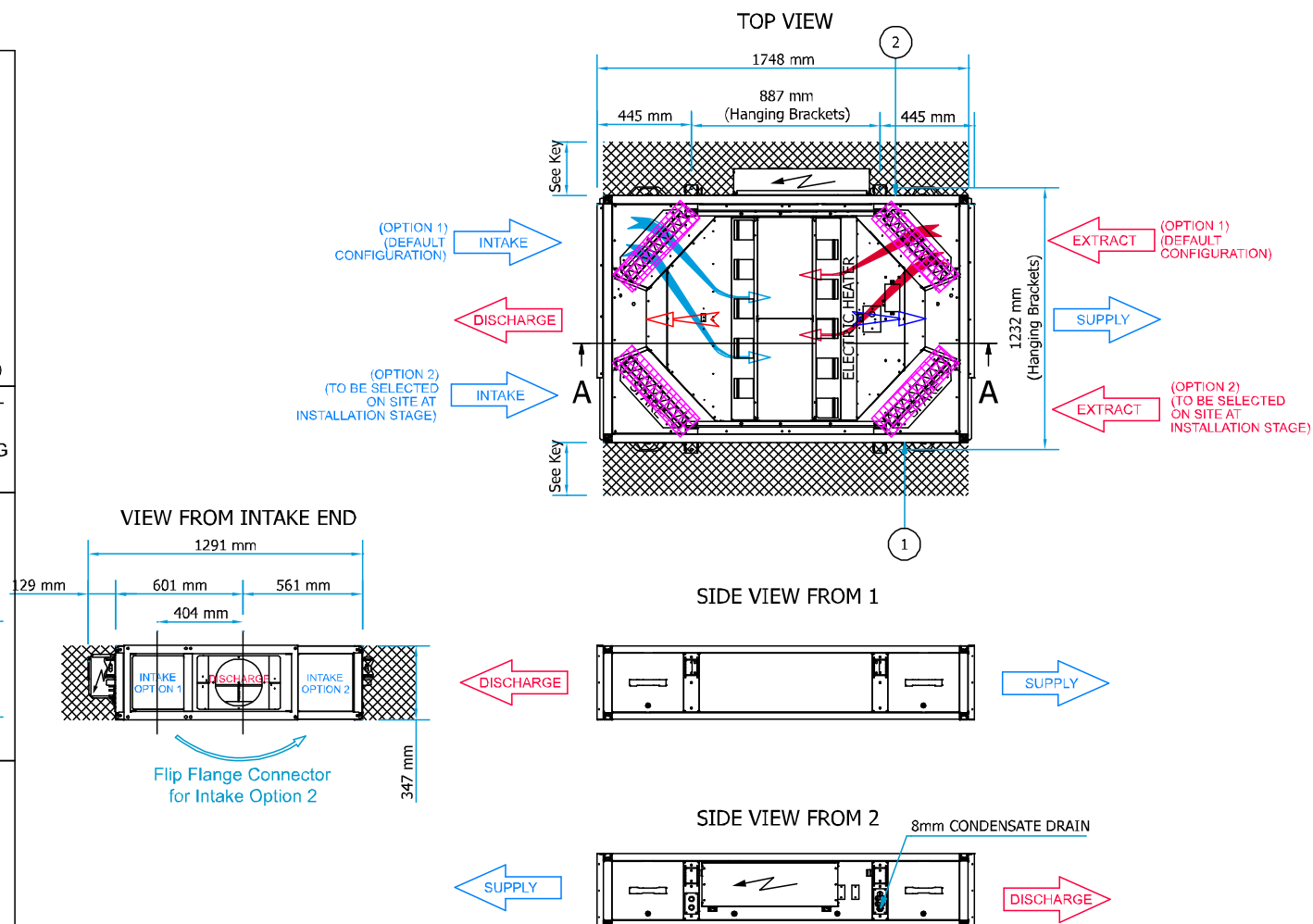
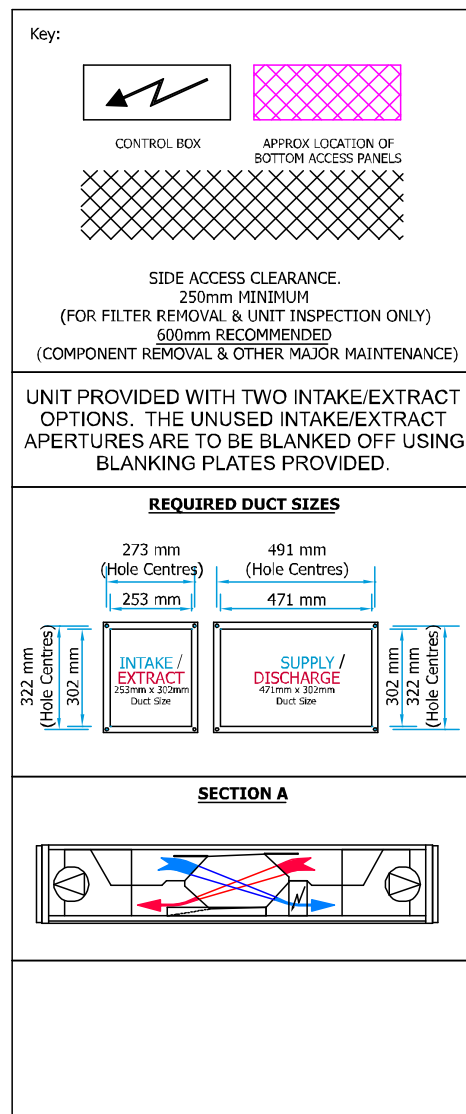
A	B	C	D	E	F	G	H	I
1713	1160	349	1773	130	210	640	404	30
J	K	L	M	kg				
252	270	1369	471	242.0				

Length: Width: Height:

1773 1160 349

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.



You can download this CAD drawing from <http://nua-www01.domain.nuaire.co.uk/CAD/xbcplus25-he-ba-l.dwg>

Please Note: This drawing details the factory-standard unit ONLY (unless silencers are shown too). The total length or footprint may differ from that shown depending on the additional ancillaries offered on the quote or if the unit code ends in -QA*****

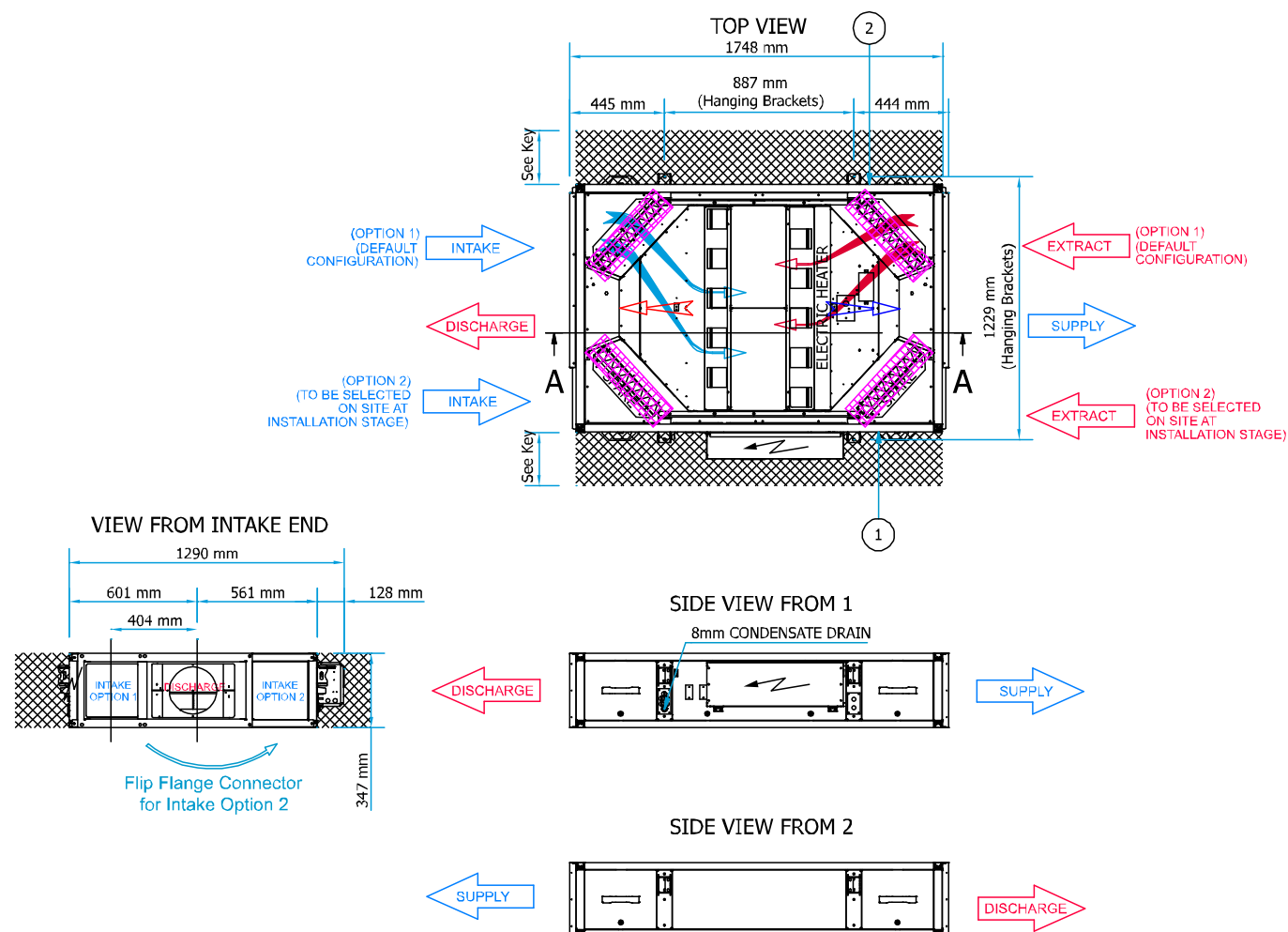
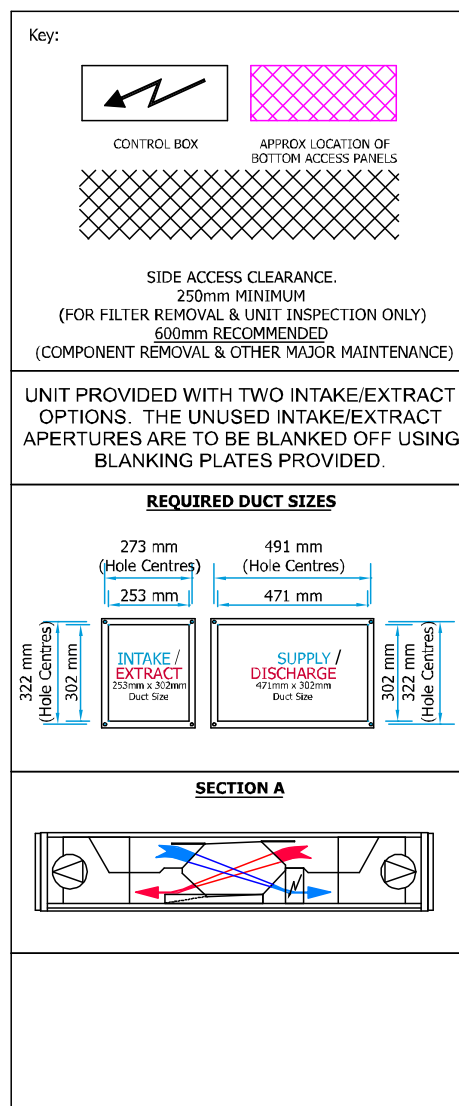
Please **DO NOT** sign this drawing to confirm handings.
Please request the official handing drawings from Nuaire.

Drawing generated automatically by Nuaire Selector

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You can download this CAD drawing from <http://nua-www01.domain.nuaire.co.uk/CAD/xbcplus25-he-ba-r.dwg>

Please Note: This drawing details the factory-standard unit ONLY (unless silencers are shown too). The total length or footprint may differ from that shown depending on the additional ancillaries offered on the quote or if the unit code ends in -QA*****

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SUMMARY FAN DATA SHEET

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UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497

Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: MVHR/GF.03

Technical Data

XBC+

Fan Code: **XBC25HA-ELN-E-LB1S**

Installation Manual Links: **671948**

Supply

Required duty: 0.25 m³/s at 150 Pa

Actual duty: 0.351 m³/s at 295 Pa

Actual at required flow: 0.25 m³/s at 634 Pa

Extract

Required duty: 0.25 m³/s at 150 Pa

Actual duty: 0.351 m³/s at 295 Pa

Actual at required flow: 0.25 m³/s at 634 Pa

When speed controlled to required duty:

Motor input power: 0.36 kW

Specific Fan Power: 1.4 W/(l/s)

At full speed:

Motor input power: 0.993 kW

Specific Fan Power: 2.8 W/(l/s)

Maximum Fan Speed: 3,740 RPM

Electrical Supply: 230V 1 Phase 50 Hz

Nominal Motor Rating

Motor Current (flc): 5.1 A

Motor Current (sc): 5.1 A

Heater Power: 1.5 kW

Heater Current (flc): 6.5 A

Heater+Motor Current (flc): 11.6 A

Max. operating temp: 60°C

Weight: 242 kg

Sound Data

Noise calculated speed controlled to required duty (71.31%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	64	63	50	53	40	39	39	31	32
Induct Intake	72	66	64	66	61	57	49	48	46
Induct Supply	77	78	73	77	67	67	63	65	56
Induct Discharge	78	79	73	76	67	67	65	66	56
Induct Extract	71	65	63	66	60	57	49	49	45
For 100% speed:	+8	+8	+8	+8	+8	+8	+8	+8	

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

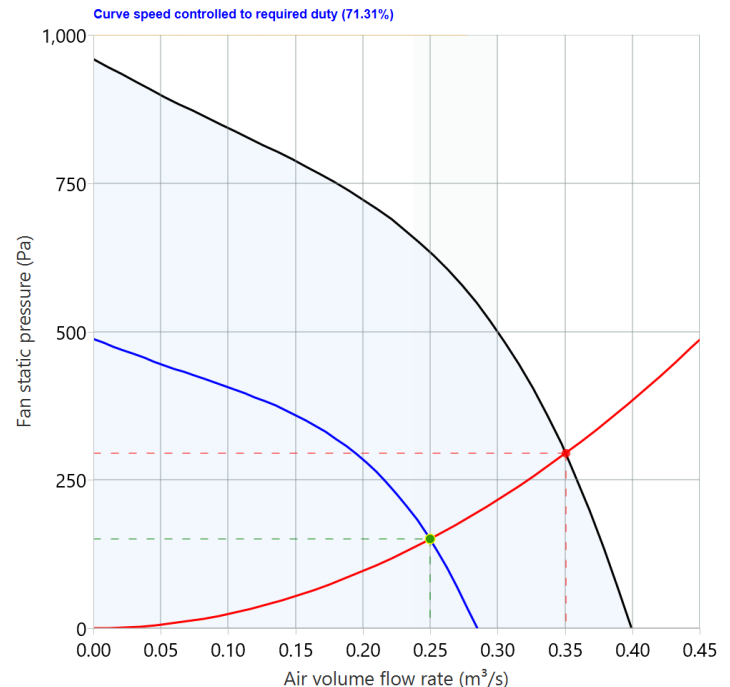
Specification

Nuaire XBOXER Supply & Extract HX unit. Incorporating high efficiency Counterflow plate heat exchanger 100% bypass facility (patent app. for) automatic control and actuator. Backward curved impellers, IP54 EC motors and speed control. Double skinned construction (patented). G4 Supply G4 Extract panel filters (spares included). Electric heater battery and burst fired temperature controller. EcoSmart Classic control of ventilation/heating. For ceiling/underfloor/slab mounted applications. Supply/Discharge connections on unit centreline; Intake/Extract connections are configurable on site to either side of unit. Rotational side mounted control. Unit will be supplied LEFT HANDED with bottom access for filter removal and replacement. 5 year warranty (UK and Ireland only)

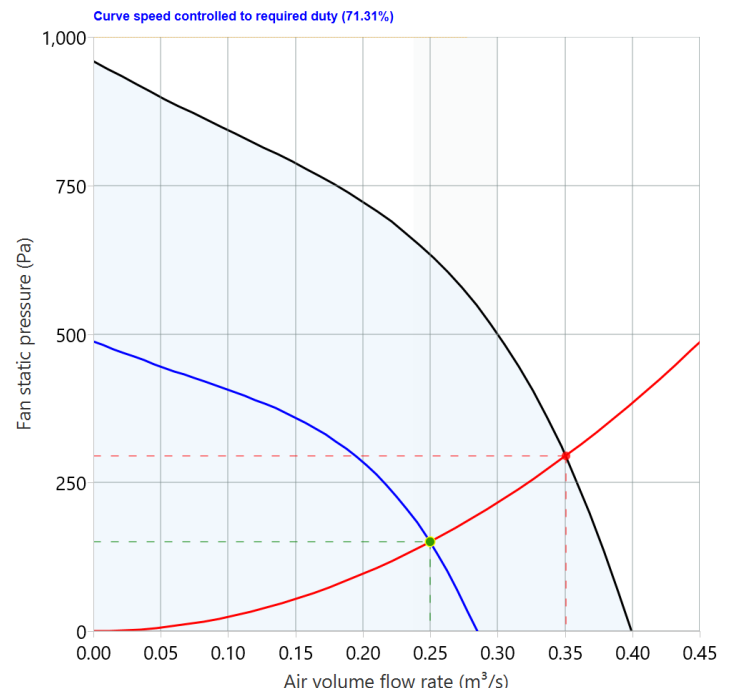
ES-LCD

LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

Performance Chart (supply)



Performance Chart (extract)



Additional Notes

Selected Ancillaries

1 x ES-LCD

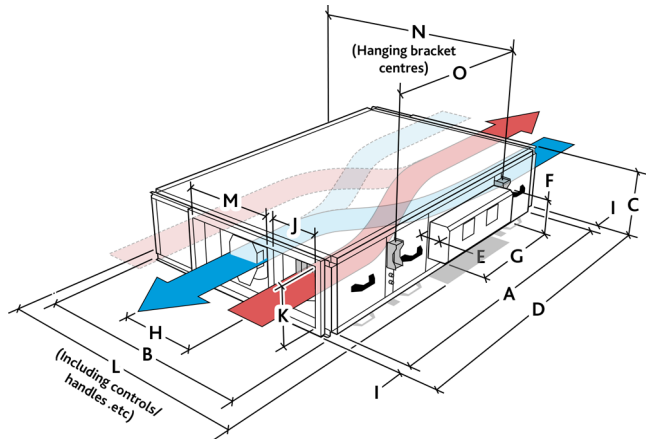
Ecosmart LCD Touch Screen User Control (White)

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Fan Dimensions

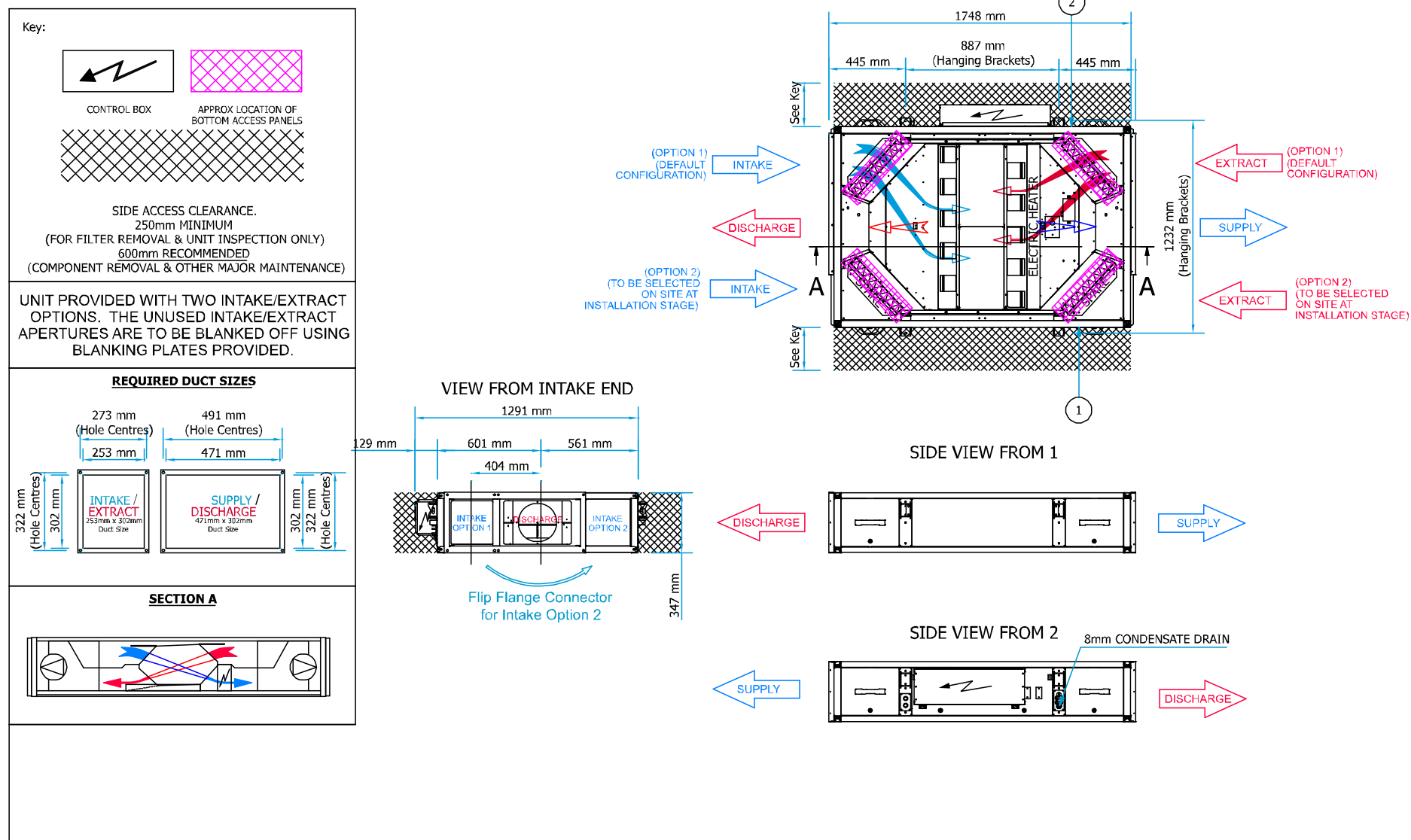


A	B	C	D	E	F	G	H	I
1713	1160	349	1773	130	210	640	404	30
J	K	L	M	kg				
252	270	1369	471	242.0				

Length: Width: Height:
1773 1160 349

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.



You can download this CAD drawing from <http://nua-www01.domain.nuaire.co.uk/CAD/xbcplus25-he-ba-l.dwg>

Please Note: This drawing details the factory-standard unit ONLY (unless silencers are shown too). The total length or footprint may differ from that shown depending on the additional ancillaries offered on the quote or if the unit code ends in -QA*****

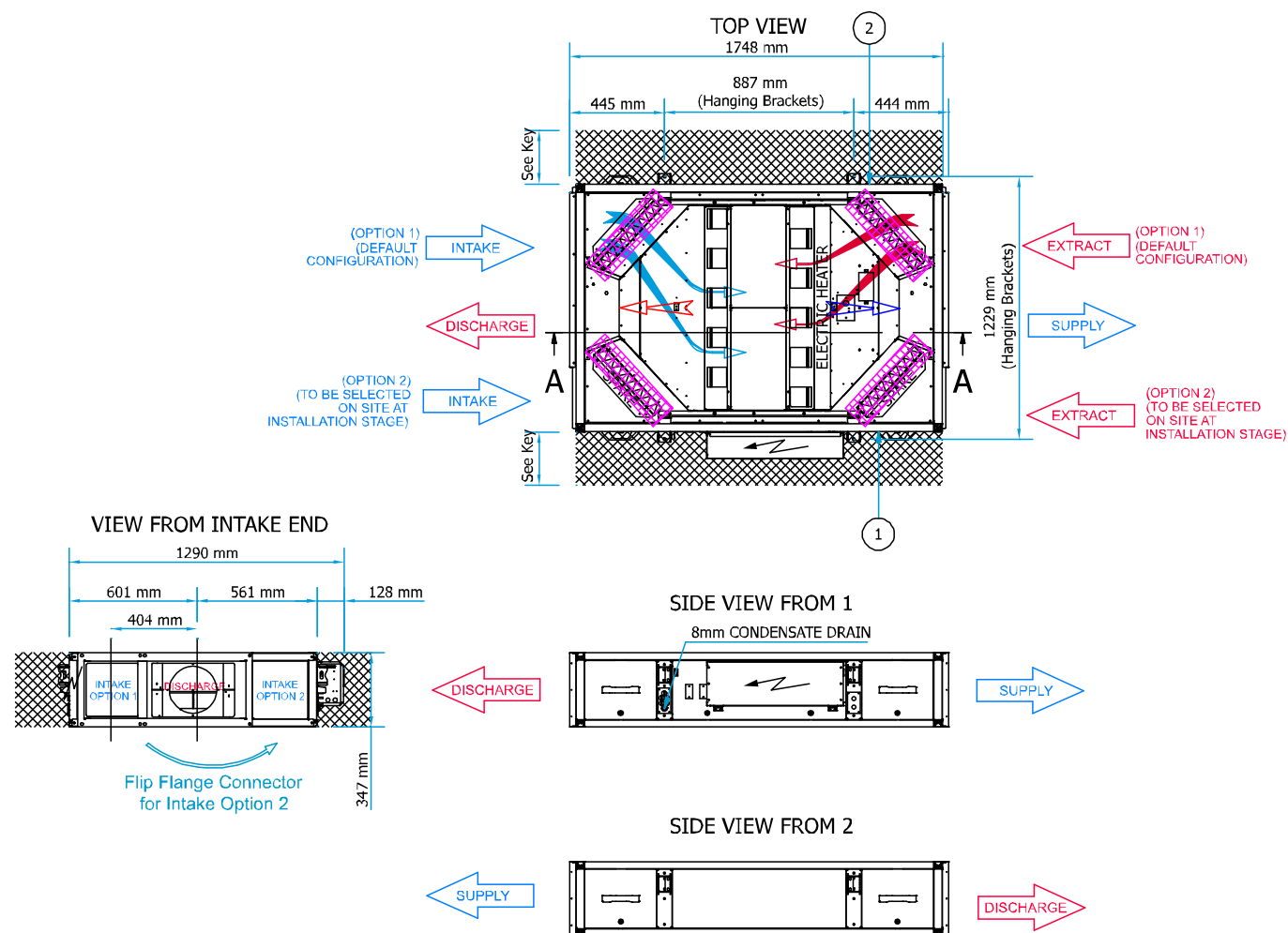
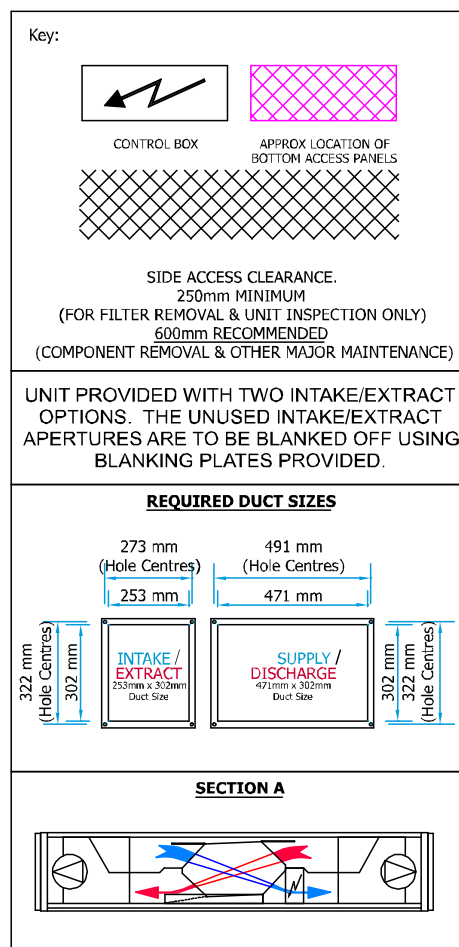
Please **DO NOT** sign this drawing to confirm handings.
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Please Note: This drawing details the factory-standard unit ONLY (unless silencers are shown too). The total length or footprint may differ from that shown depending on the additional ancillaries offered on the quote or if the unit code ends in -QA*****

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SUMMARY FAN DATA SHEET

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UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: EF/B.01

Technical Data

ILMEC - In-line Mixed Flow with EC Motor

Fan Code: **ILMEC-100**

Required duty: 0.008 m³/s at 75 Pa
Actual duty: 0.012 m³/s at 164 Pa
Actual at required flow: 0.008 m³/s at 173 Pa

When speed controlled to required duty (66.97%):

Motor Input Power: **0.007 kW**
Specific Fan Power: **0.9 W/(l/s)**

At full speed:

Motor Input Power: 0.023 kW
Specific Fan Power: 1.9 W/(l/s)

Maximum Fan Speed: 2 pole, 3,018 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 0.032 kW
Motor current (flc): 0.29 A
Motor starting current (sc): 0.37 A

Max. operating temp: 55°C
Weight: 1.75 kg

Starting currents are nominal. 4 kW and above are for Star Delta, all others are for D.O.L. starting.

Sound Data

Noise calculated speed controlled to required duty (66.97%)

Sound Power Levels re 1 pWatts (Hz):

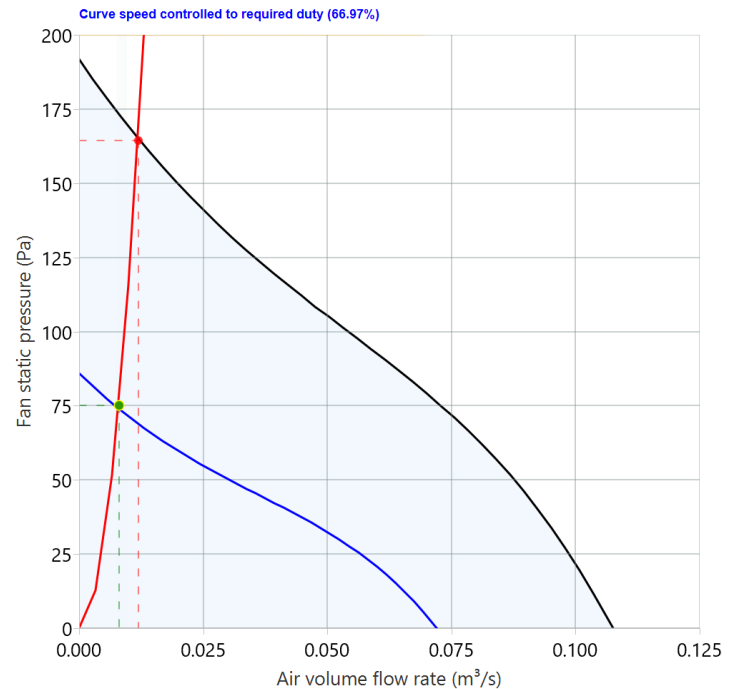
Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	74	70	66	70	58	55	44	39	
Induct Outlet	80	83	76	71	61	56	47	40	
Breakout	68	74	67	66	55	49	35	25	48
For 100% speed:	+3	+3	+5	+6	+9	+9	+9	+9	

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

Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

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

Please note the SFP for this selection is 0.9w/l/s. Please check for suitability.

Selected Ancillaries

2 x CFCH10 Hi-temp flexible connector
CFCH10 - Hi-temp flexible connector
Weight: 0.1 kg

Specification

Mixed flow inline fan with high efficiency EC motor. Polypropylene moulded casing. Removable central unit with a motor, impeller and terminal box is attached to the fittings by means of special mounting brackets with integral latches. Unit has flat mounting plate for secure wall mounting but unit can be installed in any angle. Suitable for 50Hz and 60Hz (1 phase) networks. A separate speed controller is available as ancillary.

CFCH10

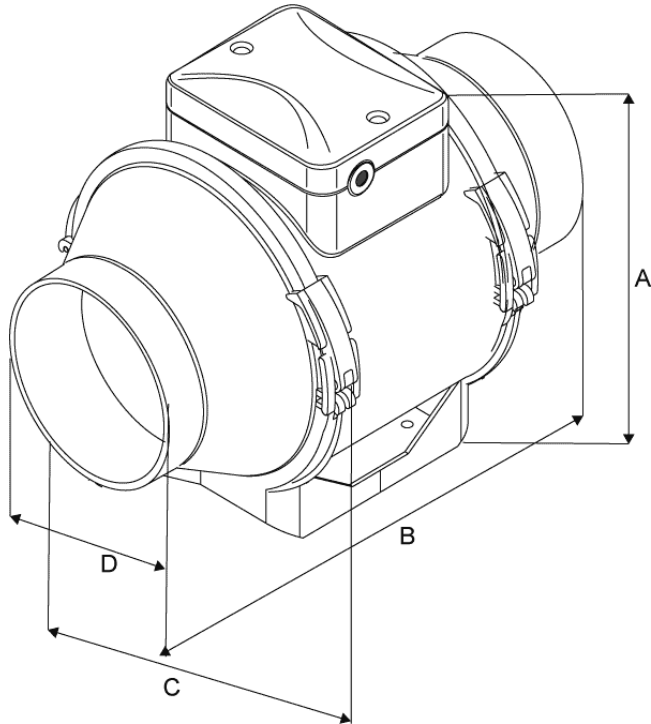
Circular flexible connector without flanges. Flexible duct material is flameproof and resistance to heat up to 400°C, chemicals, ozone, oil and grease. The material is airtight, waterproof and tested to BS476 Part 7. Supplied complete with fixing straps.

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Fan Dimensions



A	B	C	kg
241	303	192	1.75
Length:	Width:	Height:	
303	192	241	
Spigot size:	97		

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.



SUMMARY FAN DATA SHEET

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: EF/B.02

Technical Data

ILMEC - In-line Mixed Flow with EC Motor

Fan Code: ILMEC-100

Required duty: 0.02 m³/s at 75 Pa
Actual duty: 0.027 m³/s at 139 Pa
Actual at required flow: 0.02 m³/s at 150 Pa

When speed controlled to required duty (73.77%):

Motor Input Power: 0.01 kW
Specific Fan Power: 0.5 W/(l/s)

At full speed:

Motor Input Power: 0.026 kW
Specific Fan Power: 1.0 W/(l/s)

Maximum Fan Speed: 2 pole, 3,018 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 0.032 kW
Motor current (flc): 0.29 A
Motor starting current (sc): 0.37 A

Max. operating temp: 55°C
Weight: 1.75 kg

Starting currents are nominal. 4 kW and above are for Star Delta, all others are for D.O.L. starting.

Sound Data

Noise calculated speed controlled to required duty (73.77%)

Sound Power Levels re 1 pWatts (Hz):

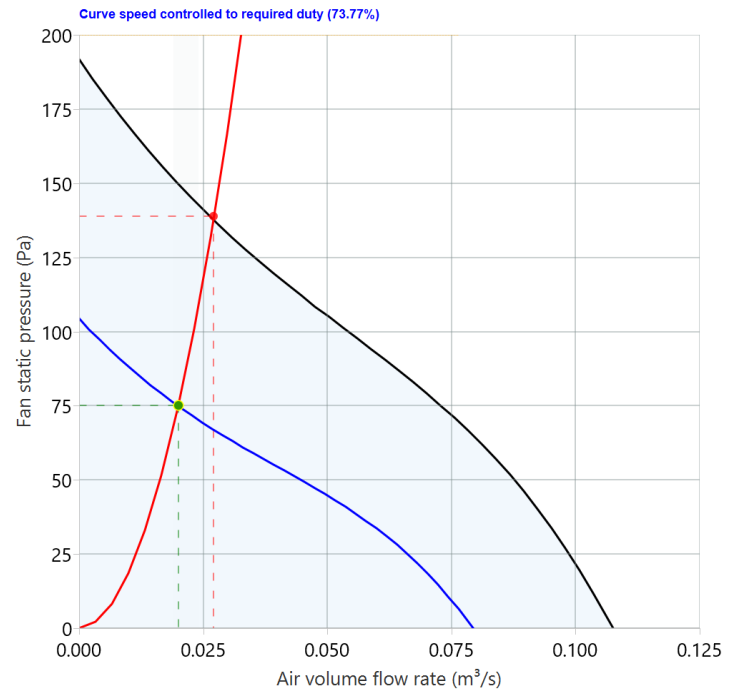
Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	75	70	67	71	60	57	46	41	
Induct Outlet	81	83	77	72	63	58	49	42	
Breakout	69	74	68	67	57	51	37	27	49
For 100% speed:	+2	+3	+4	+5	+7	+7	+7	+7	

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

Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

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

2 x CFCH10 Hi-temp flexible connector

CFCH10 - Hi-temp flexible connector

Weight: 0.1 kg

Specification

Mixed flow inline fan with high efficiency EC motor. Polypropylene moulded casing. Removable central unit with a motor, impeller and terminal box is attached to the fittings by means of special mounting brackets with integral latches. Unit has flat mounting plate for secure wall mounting but unit can be installed in any angle. Suitable for 50Hz and 60Hz (1 phase) networks. A separate speed controller is available as ancillary.

CFCH10

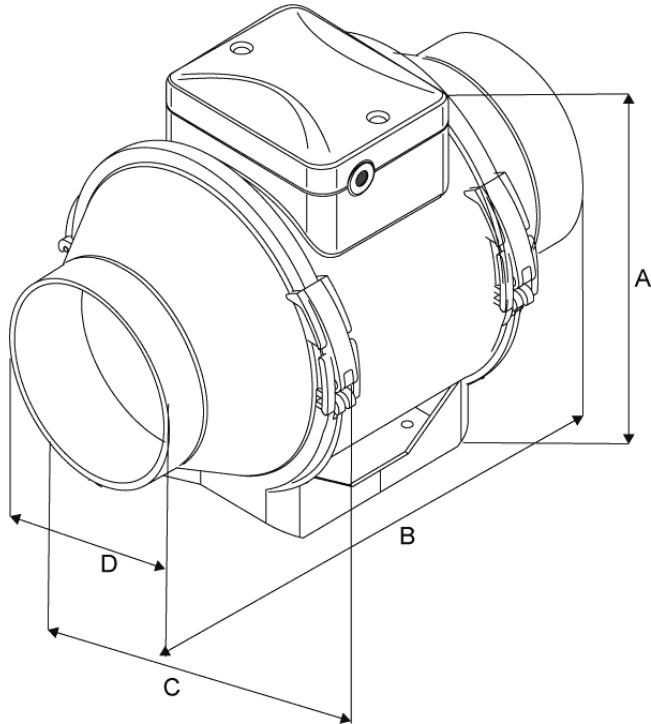
Circular flexible connector without flanges. Flexible duct material is flameproof and resistance to heat up to 400°C, chemicals, ozone, oil and grease. The material is airtight, waterproof and tested to BS476 Part 7. Supplied complete with fixing straps.

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Fan Dimensions



A	B	C	kg
241	303	192	1.75
Length:	Width:	Height:	
303	192	241	
Spigot size:	97		

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.



SUMMARY FAN DATA SHEET

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: EF/GF.01

Technical Data

ILMEC - In-line Mixed Flow with EC Motor

Fan Code: **ILMEC-100**

Required duty: 0.008 m³/s at 75 Pa
Actual duty: 0.012 m³/s at 164 Pa
Actual at required flow: 0.008 m³/s at 173 Pa

When speed controlled to required duty (66.97%):

Motor Input Power: **0.007 kW**
Specific Fan Power: **0.9 W/(l/s)**

At full speed:

Motor Input Power: 0.023 kW
Specific Fan Power: 1.9 W/(l/s)

Maximum Fan Speed: 2 pole, 3,018 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 0.032 kW
Motor current (flc): 0.29 A
Motor starting current (sc): 0.37 A

Max. operating temp: 55°C
Weight: 1.75 kg

Starting currents are nominal. 4 kW and above are for Star Delta, all others are for D.O.L. starting.

Sound Data

Noise calculated speed controlled to required duty (66.97%)

Sound Power Levels re 1 pWatts (Hz):

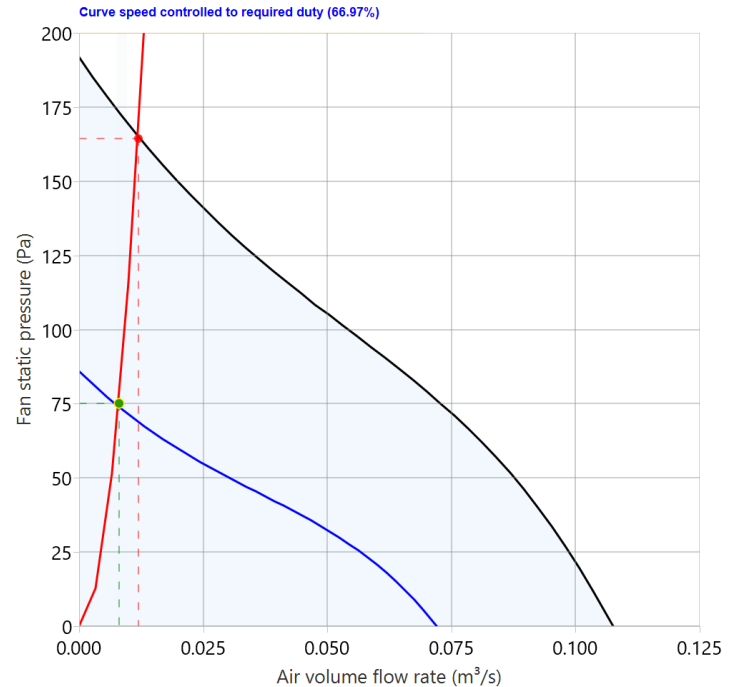
Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	74	70	66	70	58	55	44	39	
Induct Outlet	80	83	76	71	61	56	47	40	
Breakout	68	74	67	66	55	49	35	25	48
For 100% speed:	+3	+3	+5	+6	+9	+9	+9	+9	

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

Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

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Performance Chart



Additional Notes

Please note the SFP for this selection is 0.9w/l/s. Please check for suitability.

Selected Ancillaries

2 x CFCH10 Hi-temp flexible connector
CFCH10 - Hi-temp flexible connector
Weight: 0.1 kg

Specification

Mixed flow inline fan with high efficiency EC motor. Polypropylene moulded casing. Removable central unit with a motor, impeller and terminal box is attached to the fittings by means of special mounting brackets with integral latches. Unit has flat mounting plate for secure wall mounting but unit can be installed in any angle. Suitable for 50Hz and 60Hz (1 phase) networks. A separate speed controller is available as ancillary.

CFCH10

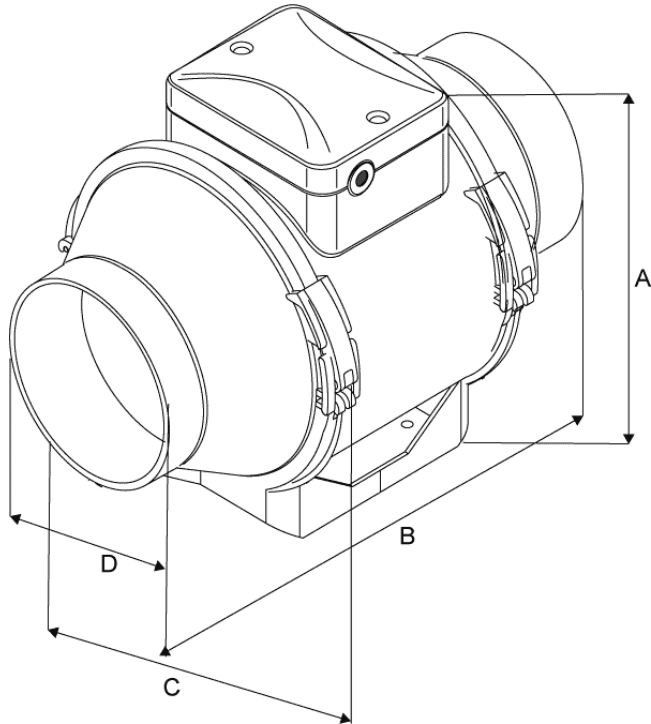
Circular flexible connector without flanges. Flexible duct material is flameproof and resistance to heat up to 400°C, chemicals, ozone, oil and grease. The material is airtight, waterproof and tested to BS476 Part 7. Supplied complete with fixing straps.

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This data sheet produced on 06 Oct 2023 09:53 using software version 5.8.4578.0

Fan Dimensions



A	B	C	kg
241	303	192	1.75
Length:	Width:	Height:	
303	192	241	
Spigot size:	97		

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.



SUMMARY FAN DATA SHEET

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: EF/1.01

Technical Data

ILMEC - In-line Mixed Flow with EC Motor

Fan Code: **ILMEC-100**

Required duty: 0.015 m³/s at 75 Pa
Actual duty: 0.021 m³/s at 147 Pa
Actual at required flow: 0.015 m³/s at 159 Pa

When speed controlled to required duty (71.13%):

Motor Input Power: **0.009 kW**
Specific Fan Power: **0.6 W/(l/s)**

At full speed:

Motor Input Power: 0.025 kW
Specific Fan Power: 1.2 W/(l/s)

Maximum Fan Speed: 2 pole, 3,018 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 0.032 kW
Motor current (flc): 0.29 A
Motor starting current (sc): 0.37 A

Max. operating temp: 55°C
Weight: 1.75 kg

Starting currents are nominal. 4 kW and above are for Star Delta, all others are for D.O.L. starting.

Sound Data

Noise calculated speed controlled to required duty (71.13%)

Sound Power Levels re 1 pWatts (Hz):

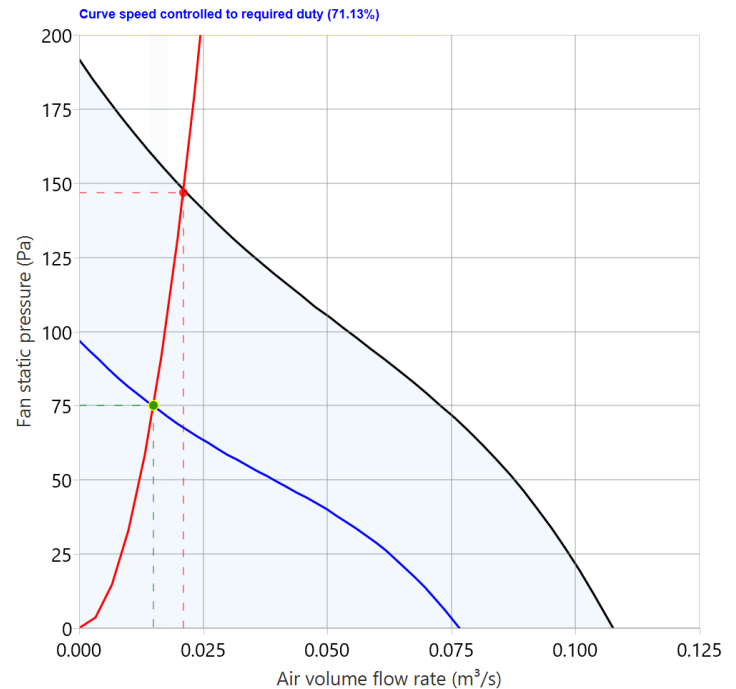
Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	75	70	67	71	59	56	45	40	
Induct Outlet	81	83	77	72	62	57	48	41	
Breakout	69	74	68	67	56	50	36	26	49
For 100% speed:	+2	+3	+4	+5	+8	+8	+8	+8	

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

Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

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

Please note the SFP for this selection is 0.6w/l/s. Please check for suitability.

Selected Ancillaries

2 x CFCH10 Hi-temp flexible connector
CFCH10 - Hi-temp flexible connector
Weight: 0.1 kg

Specification

Mixed flow inline fan with high efficiency EC motor. Polypropylene moulded casing. Removable central unit with a motor, impeller and terminal box is attached to the fittings by means of special mounting brackets with integral latches. Unit has flat mounting plate for secure wall mounting but unit can be installed in any angle. Suitable for 50Hz and 60Hz (1 phase) networks. A separate speed controller is available as ancillary.

CFCH10

Circular flexible connector without flanges. Flexible duct material is flameproof and resistance to heat up to 400°C, chemicals, ozone, oil and grease. The material is airtight, waterproof and tested to BS476 Part 7. Supplied complete with fixing straps.



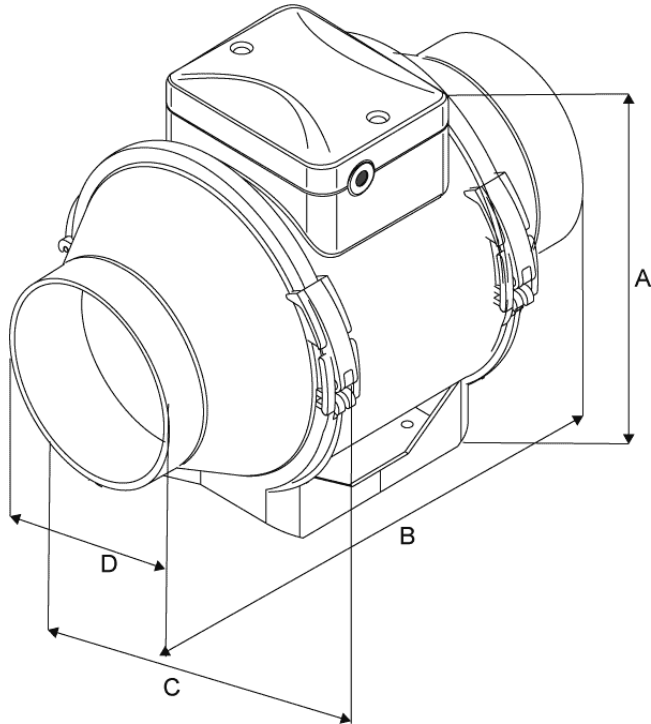
SUMMARY FAN DATA SHEET

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 06 Oct 2023 09:53 using software version 5.8.4578.0

Fan Dimensions



A	B	C	kg
241	303	192	1.75
Length:	Width:	Height:	
303	192	241	
Spigot size:	97		

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: MEV/1.01

Technical Data

MEV-ECO - Continuous mechanical extract

Fan Code: **MEV-ECO**

Required duty: 0.031 m³/s at 75 Pa
Actual duty: 0.063 m³/s at 310 Pa
Actual at required flow: 0.031 m³/s at 458 Pa

When speed controlled to required duty (49.29%):

Motor Input Power: **0.009 kW**
Specific Fan Power: **0.3 W/(l/s)**
Velocity at required duty: 2.768 m/s

At full speed:

Motor Input Power: 0.077 kW
Specific Fan Power: 1.2 W/(l/s)
Maximum Fan Speed: 3,300 RPM
Electrical Supply: 1 Phase, 50 Hz
Nominal Motor Rating: 0.087 kW
Motor current (flc): 0.66 A
Motor starting current (sc): 0.45 A

Max. operating temp: 50°C
Weight: 4 kg

Sound Data

Noise calculated speed controlled to required duty (49.29%)

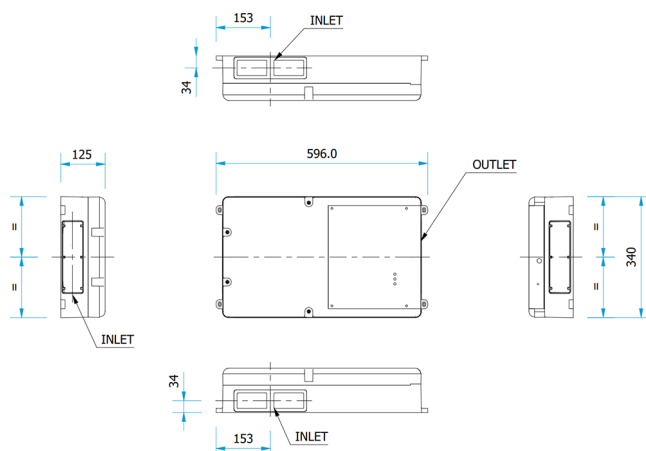
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Open Inlet	46	50	54	51	51	44	35	27	
Open Outlet	42	56	61	62	58	54	44	29	
Breakout	44	47	50	46	38	37	26	20	25

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

Fan Dimensions



Length: 596 mm
Width: 340 mm
Height: 125 mm

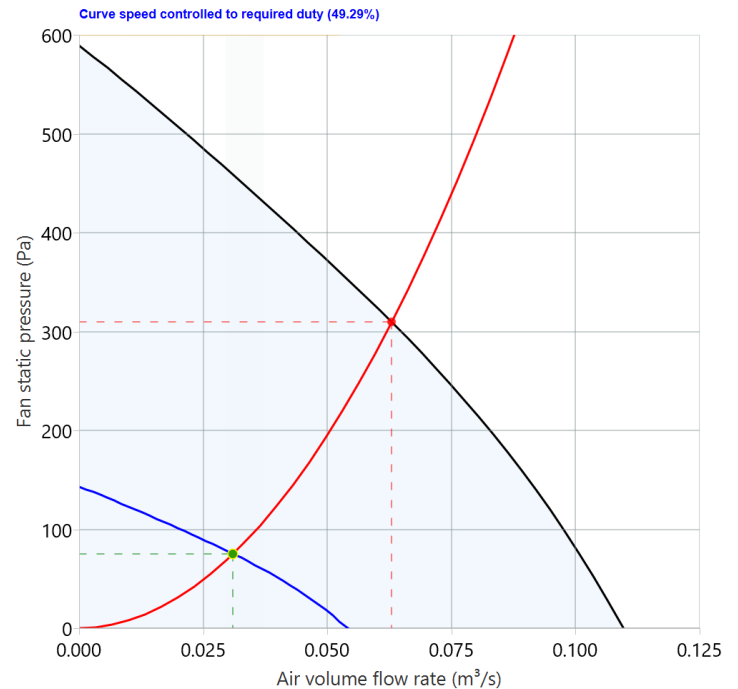
Spigot size: 204 x 60

Duct size: 204 x 60

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

Performance Chart



Additional Notes

Specification

The unit shall be constructed from metal, moulded plastic and EPP, access to motor and PCB enabling maintenance in situ.

When installed the unit shall not project further than 125mm from the surface onto which it is installed.

The unit shall have low energy, high efficiency EC fan/motor assemblies, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 50°C.

The unit shall have three variable speed settings.

The unit shall be suitable for 204 x 60mm ducting.

The unit shall have the option to connect multiple inlet ducts.

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

The unit shall be offered with a five year warranty.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)
Kitchen + 1 wet room	0.17
Kitchen + 2 wet rooms	0.17
Kitchen + 3 wet rooms	0.2
Kitchen + 4 wet rooms	0.24
Kitchen + 5 wet rooms	0.3
Kitchen + 6 wet rooms	0.35

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Project: 23/19787/COM

808-812 TOTTENHAM HIGH ROAD

Location: MEV/1.02

Technical Data

MEV-ECO - Continuous mechanical extract

Fan Code: **MEV-ECO**

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Actual duty: 0.063 m³/s at 310 Pa
Actual at required flow: 0.031 m³/s at 458 Pa

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Motor Input Power: **0.009 kW**
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Velocity at required duty: 2.768 m/s

At full speed:

Motor Input Power: 0.077 kW
Specific Fan Power: 1.2 W/(l/s)
Maximum Fan Speed: 3,300 RPM
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Motor current (flc): 0.66 A
Motor starting current (sc): 0.45 A

Max. operating temp: 50°C
Weight: 4 kg

Sound Data

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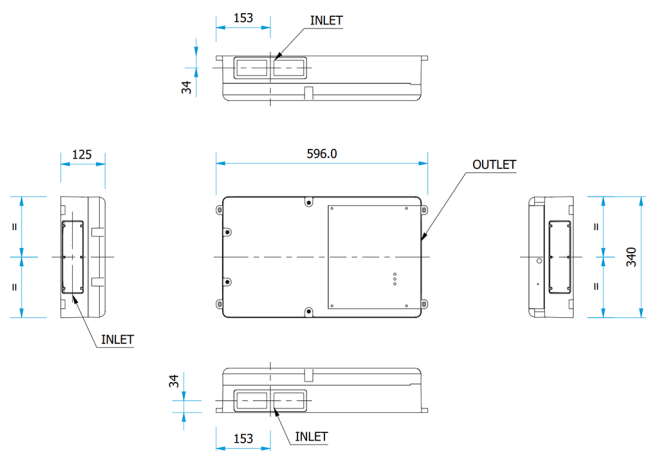
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Fan Dimensions



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Width: 340 mm
Height: 125 mm

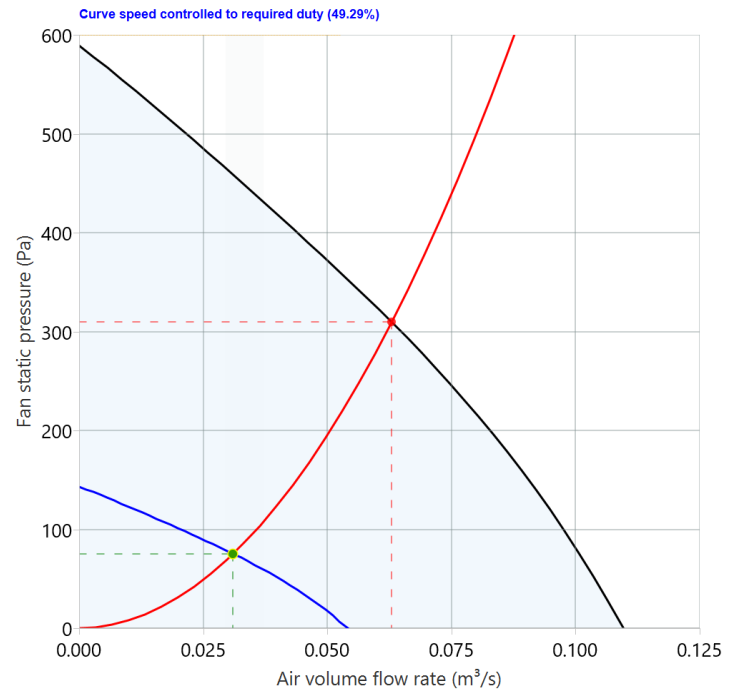
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Duct size: 204 x 60

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Performance Chart



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