

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 05 Aug 2021 09:00 using software version 4.7.4022.0; by user matthewl

Project Details

Location: EF 5A

Technical Data

OPUSDC - Low Power Ducted Extract Fans

Fan Code: **ES-OPUSDC110-M**
Installation Manual Links: 671339

Required duty: 0.06 m³/s at 0 Pa
Actual duty: 0.103 m³/s at 0 Pa
Actual at required flow: 0.06 m³/s at 211 Pa

When speed controlled to required duty (58.46%):

Motor Input Power: **0.019 kW**
Specific Fan Power: **0.3 W/(l/s)**

At full speed:

Motor Input Power: 0.094 kW
Specific Fan Power: 0.9 W/(l/s)

Maximum Fan Speed:
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 0.09 kW
Motor current (flc): 0.46 A
Motor starting current (sc): 0.61 A

Max. operating temp: 40°C
Weight: 3 kg
Starting currents are nominal.

Sound Data

Acoustic performance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (58.46%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBa
Induct Inlet	73	72	62	53	42	37	28	25	41
Induct Outlet	78	72	65	55	51	50	46	40	44
Breakout	46	48	48	46	38	32	25	<16	28
For 100% speed:	+3	+4	+6	+8	+12	+12	+12	+12	

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

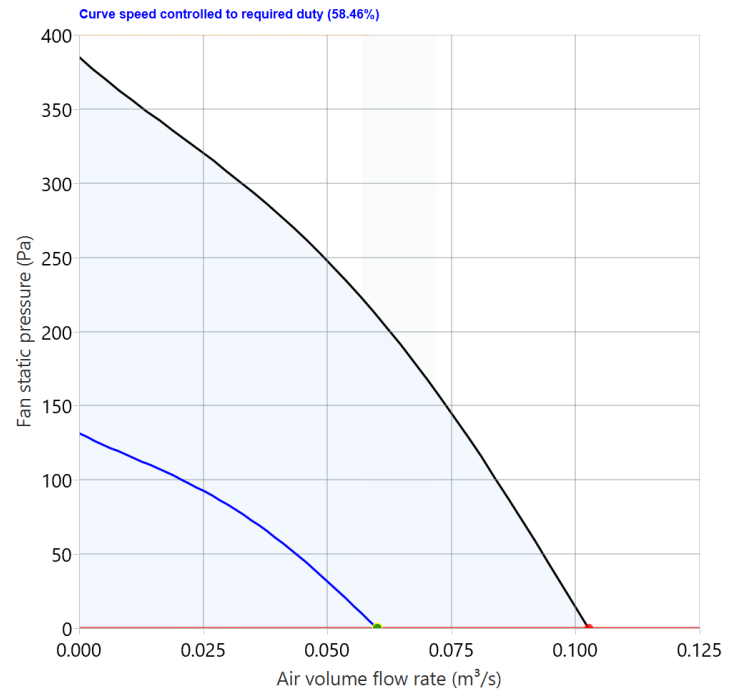
Values shown are for inlet Lw, outlet Lw sound power & breakout levels for Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

SIL-100

At all volumes -10 -12 -15 -18 -29 -45 -27 -15

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 SIL-100 Rectangular silencer

SIL-100 - Rectangular silencer

Size: 600 mm (L) 230 mm (W) 159 mm (H)
Spigot Size (mm): 100
Weight: 4.9 kg

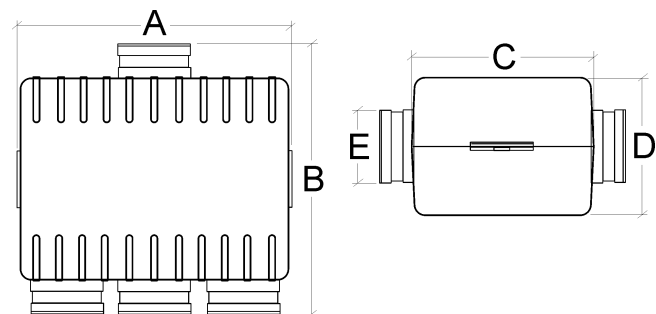
Specification

The ES-OPUSdc incorporates a low energy, high efficiency DC fan/motor assembly with sealed for life bearings, mounted within an acoustically lined, 100% recyclable plastic case. The unit incorporates a quick release mounting bracket as standard. The range has an energy efficient Ecosmart control. The unit can be mounted horizontally or vertically and is fitted with a removable panel allowing for quick and easy access to electrical connections. A miniature control panel mounted on the fascia allows for easy commissioning. All inlets are 100mm diameter.

SIL-100

The In-line attenuator shall be constructed in galvanised steel and be fitted with duct work connection spigots. Acoustic media shall be a low density foam to prevent material migration into the air stream. Resistance to airflow is negligible.

Fan Dimensions



A	B	C	D	E	kg
367	320	242	184	100	3.0

Drawing is for dimensional purposes only. Dimensions in mm.

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Project Details

Location: Kitchen Supply unit

Technical Data

ESBHS - Ecosmart Boxer Supply AHU

Fan Code: **ESBHS3-L**
 Installation Manual Links: 671188
 Required duty: 1.037 m³/s at 0 Pa
 Addition for ancillaries: +292.78 Pa
 Actual duty: 1.155 m³/s at 363 Pa
 Actual at required flow: 1.037 m³/s at 438 Pa

When speed controlled to required duty (89.8%):

Fan Input Power: **1.023 kW**
 Motor Input Power: **1.18 kW**
 Specific Fan Power: **1.1 W/(l/s)**
 Velocity at required duty: 1.894 m/s
 Fan Total Efficiency: 30%

At full speed:

Fan Input Power: 1.412 kW
 Maximum Fan Input Power: 1.571 kW
 Motor Input Power: 1.63 kW
 Specific Fan Power: 1.4 W/(l/s)
 Fan Total Efficiency: 24%
 Maximum Fan Speed: 4 pole, 1,915 RPM
 Electrical Supply: 400V, 3 Phase, 50 Hz
 Nominal Motor Rating: 2.2 kW
 Motor current (flc): 4.58 A
 Motor starting current (sc): 36.182 A
 Motor Efficiency: IE3 / Premium Efficiency

Max. operating temp: 40°C
 Weight: 402 kg

All Ecosmart fans feature soft-starting and stepless variable speed control. A switch disconnector is required to isolate the fan from the electrical supply.

Sound Data

Acoustic performance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (89.8%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	88	83	79	80	73	70	64	59	
Induct Outlet	91	86	80	79	72	68	63	59	
Breakout	77	68	66	52	39	36	37	28	39
For 100% speed:	+1	+1	+2	+2	+3	+3	+3	+3	

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

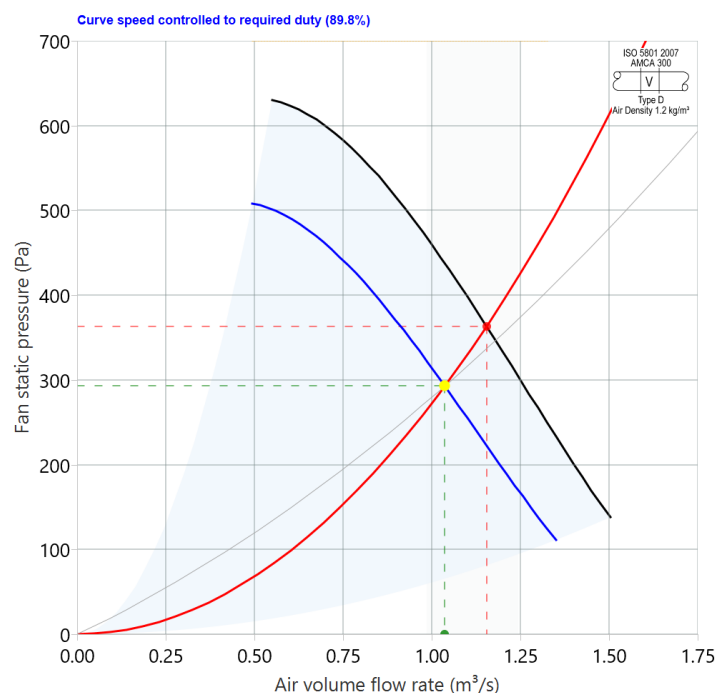
Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

ESBSIL3

At all volumes 0 -6 -8 -18 -22 -20 -16 -15

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Performance Chart



Additional Notes

Please note the LPHW coil in this unit will need to have a water flow and return temperature of 70-44°C in order to offer a supply air temperature of 18.1°C from -5°C externally. The unit is fitted with a 3 port valve as standard.

Please note this unit comes with built-in EcoSmart controls. This provides 0-10V BMS connections for fan enabling / speed control and volt free connections for run and fault monitoring.

Silencers have been.

Our matching silencers have been offered as optional extras.

Selected Ancillaries

2 x ESBSIL3	Inline silencer
1 x ESBS3-FIL(B7)	Replacement bag filter F7
1 x ESBS3-FIL(P)	Replacement panel filter G4
1 x ESBSWP3-L	Weather Proof Roof
1 x ESBSILWP3	Weather Proof Roof for Silencers

ESBSIL3 - Inline silencer

Resistance at required duty 43.01 Pa @ 1.04 m³/s
 Size: 900 mm (L) 800 mm (W) 800 mm (H)
 Weight: 95.0 kg

ESBS3-FIL(B7) - Replacement bag filter F7

Resistance at required duty 119.32 Pa @ 1.04 m³/s

ESBS3-FIL(P) - Replacement panel filter G4

Resistance at required duty 130.45 Pa @ 1.04 m³/s

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Specification

Air handling unit shall consist of fan, G4 filter and LPHW heating coil. Air handling unit shall be constructed with double skinned Magnelis panels on an aluminium Pentapost frame. Air handling unit shall incorporate full Ecosmart control package.

Units will be supplied in modular sections for on site assembly by the installer, this will also necessitate completion of the wiring between modules.

LPHW: -3 to 30°C @ 1.3m³/s, 52 kW, water flow rate 1.12 l/s, water pd 15 kPa, connection 1.25 in BSP.

ESBSIL3

Double skinned silencer with pentapost/Magnelis casing and mineral wool insulation. Splitters with cloth faced mineral wool insulation and perforated galvanised steel enclosure.

- ESBSIL - Splitters are faced with perforated sheet lined to prevent particle migration and filled with high density mineral wool.

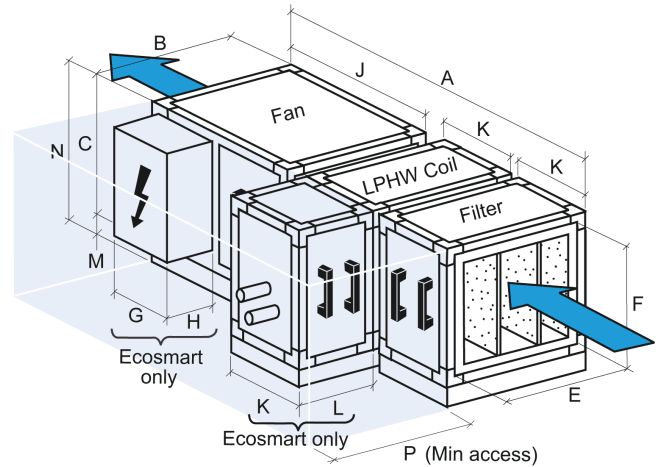
ESBSWP3-L

Duo pitch Magnelis weather proof roof to suit.

ESBSILWP3

Duo pitch Magnelis weather proof roof to suit.

Fan Dimensions



A	B	C	E	F	G	H	J	K
2400	800	800	740	740	460	260	1200	600
L	M	N	P	kg				
350	80	880	800	402.0				

Length: Width: Height:
2400 1060 880

Drawing is for dimensional purposes only. Dimensions in mm.

Section Transport Weights

1 - Filter	60 kg
2 - LPHW Coil	115 kg
3 - Fan	240 kg



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Project Details

Location: Kitchen extract

Technical Data

SQF - Squif Single In-line Fans

Fan Code:

SQFA43-3ES

Installation Manual Links:

671175

Required duty:

1.037 m³/s at 0 Pa

Addition for ancillaries:

+65.6 Pa

Actual duty:

1.878 m³/s at 215 Pa

Actual at required flow:

1.037 m³/s at 519 Pa

When speed controlled to required duty (55.23%):

Fan Input Power:

0.142 kW

Motor Input Power:

0.193 kW

Specific Fan Power:

0.2 W/(l/s)

Velocity at required duty:

2.127 m/s

Fan Total Efficiency:

50%

At full speed:

Fan Input Power:

0.844 kW

Maximum Fan Input Power:

1.043 kW

Motor Input Power:

1.092 kW

Specific Fan Power:

0.6 W/(l/s)

Fan Total Efficiency:

15%

Maximum Fan Speed:

4 pole, 1,440 RPM

Electrical Supply:

400V, 3 Phase, 50 Hz

Nominal Motor Rating:

1.1 kW

Motor current (flc):

2.59 A

Motor starting current (sc):

2.59 A

Motor Efficiency:

IE3 / Premium Efficiency

Max. operating temp:

90°C

Weight:

102 kg

Starting currents are nominal for D.O.L. starting.

Sound Data

Acoustic performance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (55.23%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	85	90	76	70	64	65	65	58	
Induct Outlet	82	91	72	68	69	70	66	60	
Breakout	79	84	68	62	55	56	50	36	49
For 100% speed:	+4	+5	+7	+9	+13	+13	+13	+13	

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

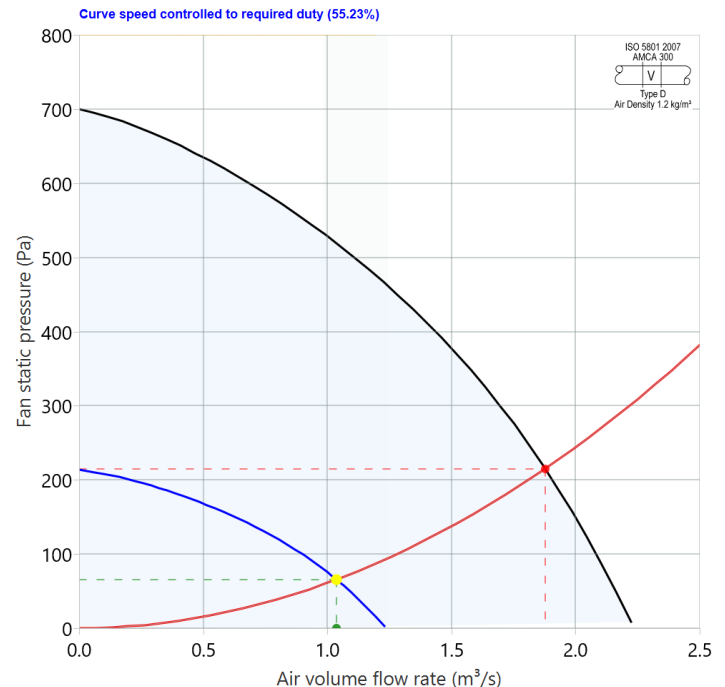
Values shown are for inlet Lw, outlet Lw sound power & breakout levels for Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

SQFS3SMLX

At all volumes 0 -4 -8 -18 -24 -19 -16 -11

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Performance Chart



Additional Notes

Please note this unit comes with built-in EcoSmart controls. This provides 0-10V BMS connections for fan enabling / speed control and volt free connections for run and fault monitoring.

Our matching silencers have been offered as optional extras.

Selected Ancillaries

1 x NAV5	Anti-vibration mounting kit
2 x SQFF3	Square flexible connector double flanged
1 x ES-ISC-WPA	Weatherproof Enclosure for Inverter
2 x SQFS3SMLX	Square short silencer Melinex lined
SQFS3SMLX - Square short silencer Melinex lined	
Resistance at required duty	65.6 Pa @ 1.04 m³/s
Size:	900 mm (L) 810 mm (W) 710 mm (H)
Weight:	32.0 kg

Specification

In-line centrifugal fan suitable for both vertical & horizontal mounting. The unit casing shall be heavy gauge galvanised steel. The fans shall be of high efficiency backward curved centrifugal design, manufactured in galvanised steel. Fans shall be direct drive with IE2 high efficiency motors to BS5000 as standard, where appropriate. The unit motor shall be positioned outside the ventilation airflow path. The unit shall be capable of continuous operation at 90°C. Unit fitted with full Ecosmart controls, BMS interfaces and commissioning controls. Ecosmart fans incorporate (in a convenient separate enclosure) a control package providing full Ecosmart functionality. The fan shall have the following energy saving functions integrally mounted within the fan unit on a purpose made PCB, all components pre-wired by the manufacturer: integral maximum and minimum speed adjustment/setting; integral adjustable run on timer; integral BMS interfaces, 0-10v and volt free failure indication.

NAV5

Resilient rubber anti-vibration mountings, supplied as a set of 4.

SQFF3

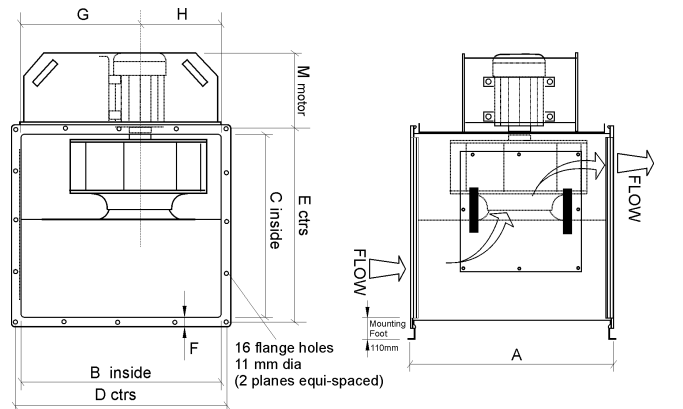
Double flanged flexible connector manufactured from flame proof material. Heat resistant to 400°C with excellent resistance to chemicals, ozone, oil and grease. The connector is air-tight, waterproof and tested to BS476 Part 7.

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Fan Dimensions



A	B	C	D	E	F	G	H	M
750	750	650	780	680	32	412	338	231

kg

102.0

Length: Width: Height:

750 780 911

Drawing is for dimensional purposes only. Dimensions in mm.

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Project Details

Location: EF01-3

Technical Data

XS - Wall Mounted Extract Fans

Fan Code: **XS6WA**
Installation Manual Links: **671051**

Maximum Fan Speed: 2 pole, 2,000 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 0.044 kW
Motor current (flc): 0.19 A
Motor starting current (sc): 0.6 A

Max. operating temp: 60°C
Weight: 4.7 kg

Starting currents are nominal.

Sound Data

Noise calculated speed controlled to required duty (100%)

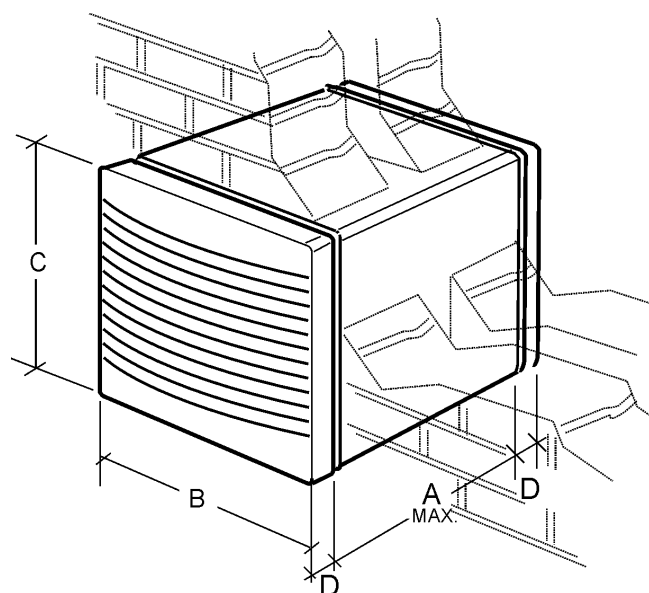
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Open Inlet	54	68	60	57	58	57	49	41	42
Open Inlet	44	51	53	51	57	58	53	42	41
Open Outlet	53	69	59	59	60	61	53	45	45
Open Outlet	44	50	56	50	55	56	52	42	40
For 100% speed:	+0	+0	+0	+0	+0	+0	+0	+0	

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

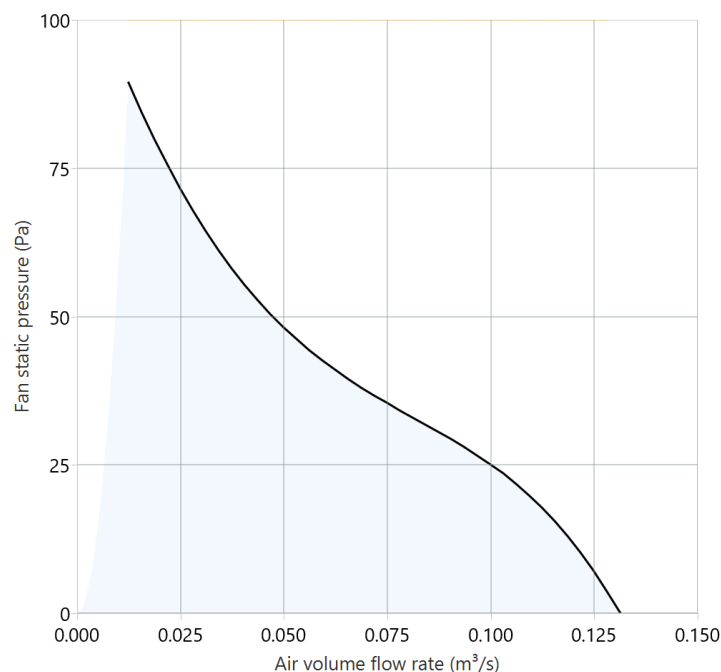


A	B	C	D	kg
370	269	269	31	4.7

Length: 370
Width: 269
Height: 269

Drawing is for dimensional purposes only. Dimensions in mm.

Performance Chart



Additional Notes

Please note the unit has been selected without any airflow rates or resistances. Please check the unit data sheets for suitability.

Selected Ancillaries

1 x XS-MFC

Multifan controller

Specification

Wall mounted extract fan, manufactured from ABS material. The fan is to have an externally weather louvre and a thermally actuated anti-backdraught shutter at the rear of the fan and the impeller at the front. The fans are controlled via a full range of integral sensors matched to an external remote controller providing on/off, extract, variable / fixed economy speed, auto / manual functions.

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Project Details

Location: EF04

Technical Data

OPUSDC - Low Power Ducted Extract Fans

Fan Code: **ES-OPUSDC110-M**
Installation Manual Links: 671339

Maximum Fan Speed:
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 0.09 kW
Motor current (flc): 0.46 A
Motor starting current (sc): 0.61 A

Max. operating temp: 40°C
Weight: 3 kg

Starting currents are nominal.

Sound Data

Acoustic performance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (100%)

Sound Power Levels re 1 pWatts (Hz):

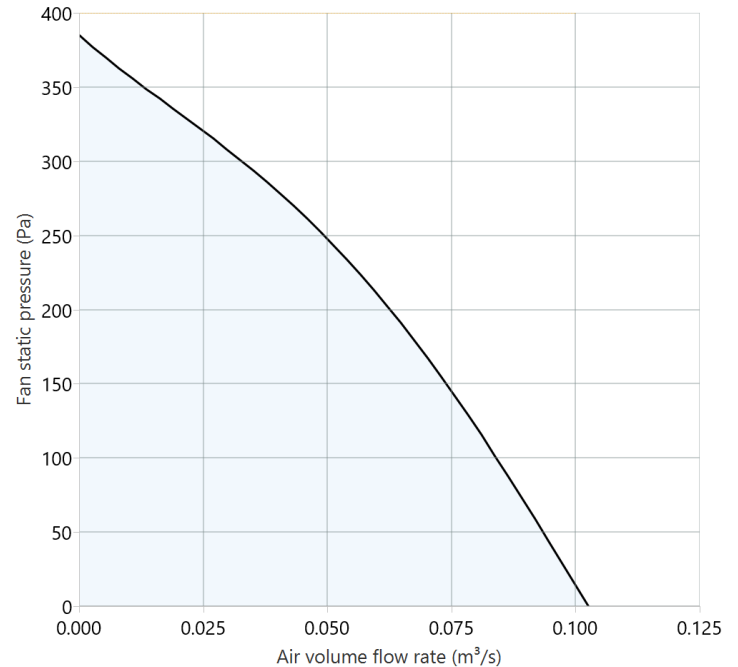
Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	76	76	68	61	54	49	40	37	47
Induct Outlet	81	76	71	63	63	62	58	52	51
Breakout	49	52	54	54	50	44	37	27	37
For 100% speed:	+0	+0	+0	+0	+0	+0	+0	+0	

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



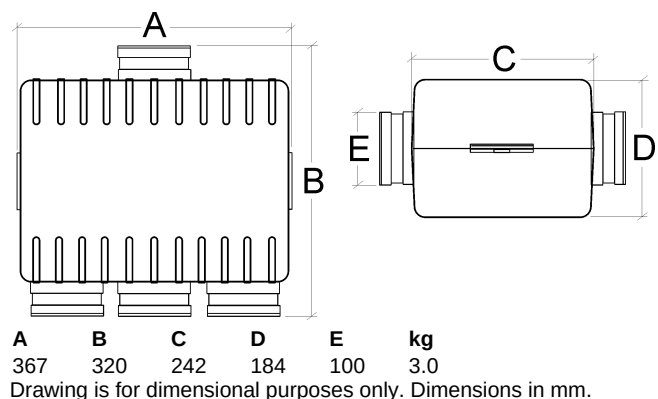
Additional Notes

Please note the unit has been selected without any airflow rates or resistances. Please check the unit data sheets for suitability.

Specification

The ES-OPUSdc incorporates a low energy, high efficiency DC fan/motor assembly with sealed for life bearings, mounted within an acoustically lined, 100% recyclable plastic case. The unit incorporates a quick release mounting bracket as standard. The range has an energy efficient Ecosmart control. The unit can be mounted horizontally or vertically and is fitted with a removable panel allowing for quick and easy access to electrical connections. A miniature control panel mounted on the fascia allows for easy commissioning. All inlets are 100mm diameter.

Fan Dimensions





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Project Details

Location: Unit !

Technical Data

XBC+

Fan Code: **XBC15HA-LH4-E-LS1S**
Installation Manual Links: 671948

Required duty: 0.086 m³/s at 0 Pa
Addition for ancillaries: +13.05 Pa
Actual duty: 0.18 m³/s at 57 Pa
Actual at required flow: 0.086 m³/s at 528 Pa

When speed controlled to required duty (47.83%):

Motor Input Power: 0.039 kW
Specific Fan Power: 0.5 W/(l/s)

At full speed:

Motor Input Power: 0.355 kW
Specific Fan Power: 2.0 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 starting current (sc): 2.8 A

Max. operating temp: 60°C
Weight: 195 kg

Sound Data

Noise calculated speed controlled to required duty (47.83%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	44	40	25	26	24	20	17	<16	<16
Induct Intake	53	43	38	39	45	38	30	26	26
Induct Supply	58	55	48	49	51	47	42	40	34
Induct Discharge	58	56	48	50	51	48	43	41	34
Induct Extract	52	42	38	38	44	38	28	24	25
For 100% speed:	+17	+17	+17	+17	+17	+17	+17	+17	

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

XBC15-HE-MS10

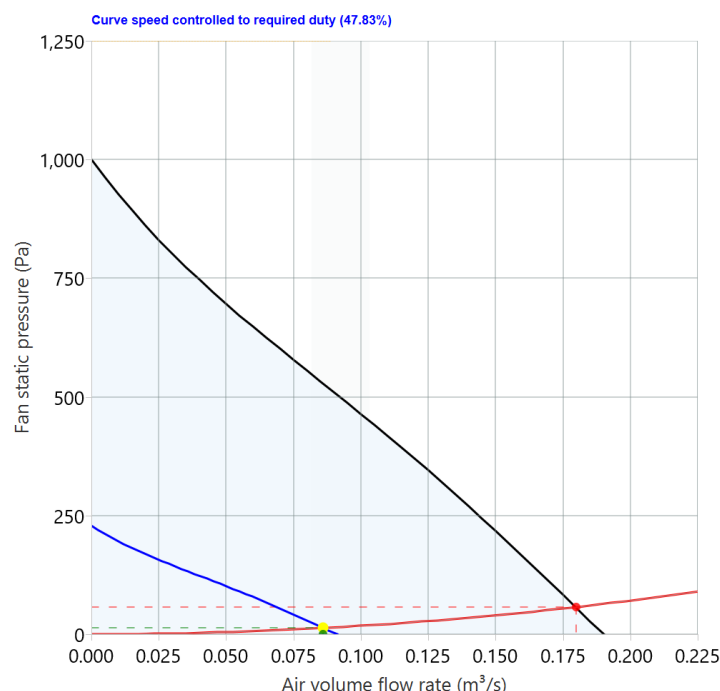
At all volumes -2 -2 -3 -10 -17 -10 -6 -3

XBC15-HS-MS10

At all volumes -5 -11 -12 -19 -27 -28 -24 -19

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Performance Chart



Additional Notes

Selected Ancillaries

2 x XBC15-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length
2 x XBC15-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length
1 x ES-LCD	Ecosmart LCD Touch Screen User Control (White)

XBC15-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 4.6 Pa @ 0.09 m³/s
Size: 1050 mm (L) 250 mm (W) 225 mm (H)
Weight: 37.0 kg

XBC15-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 8.45 Pa @ 0.09 m³/s
Size: 1050 mm (L) 340 mm (W) 225 mm (H)
Weight: 49.0 kg

Specification

XBC15HA-LH4-E-LS1S. Nuair 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). LPHW heater battery, valve and actuator. 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. 5 year warranty (UK and Ireland only)

ES-LCD

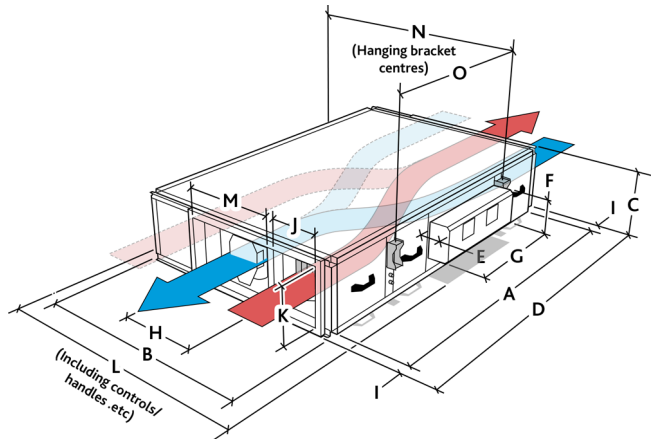
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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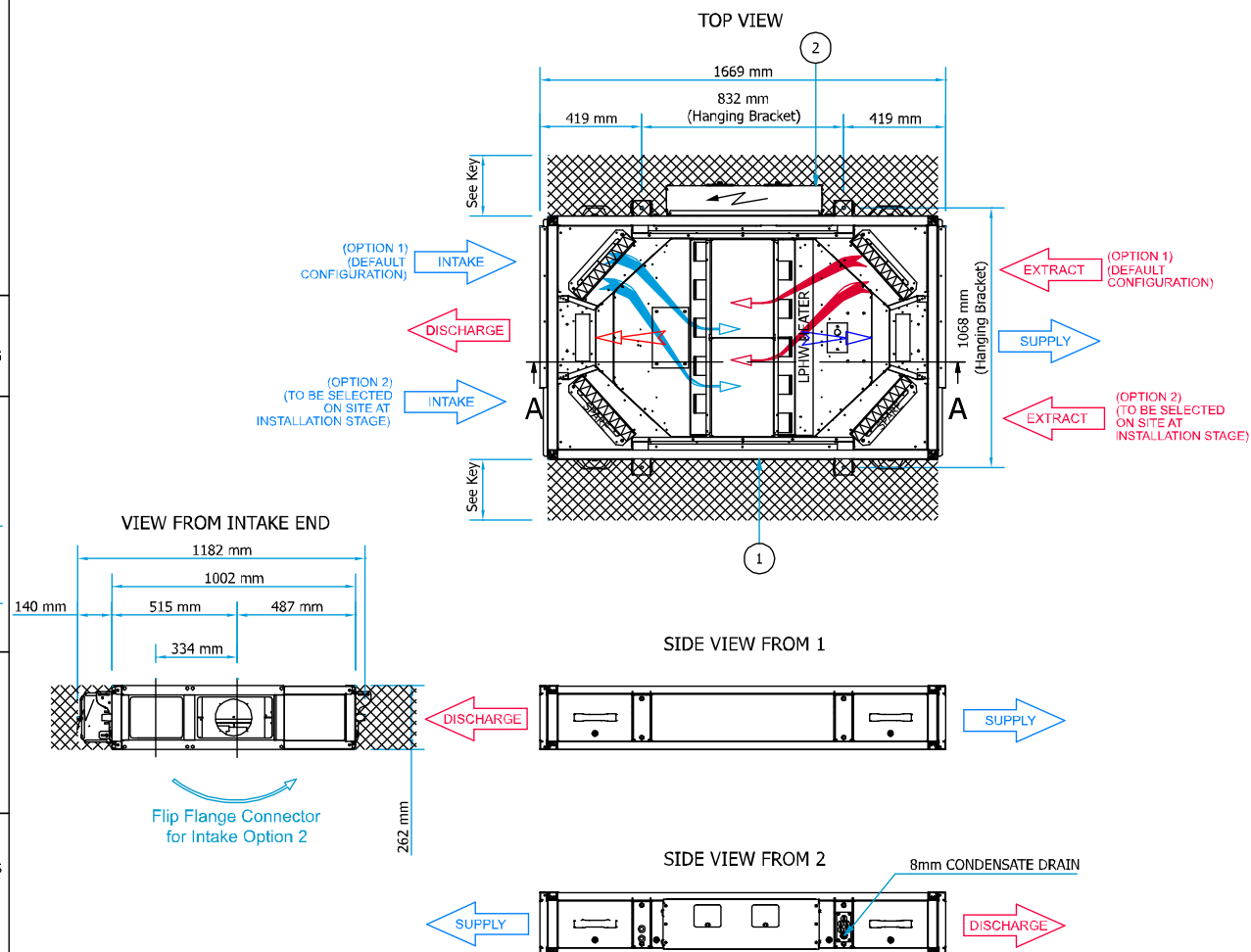
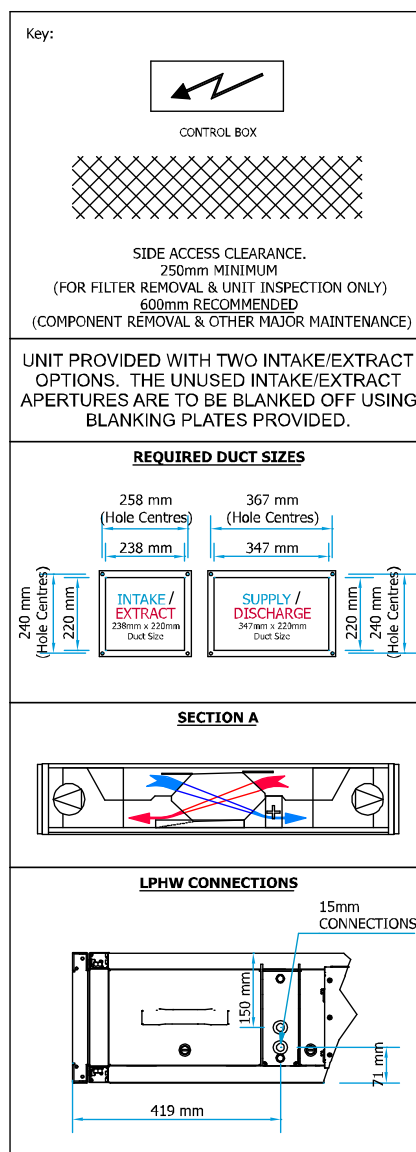
Fan Dimensions



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

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus15-hl-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*****

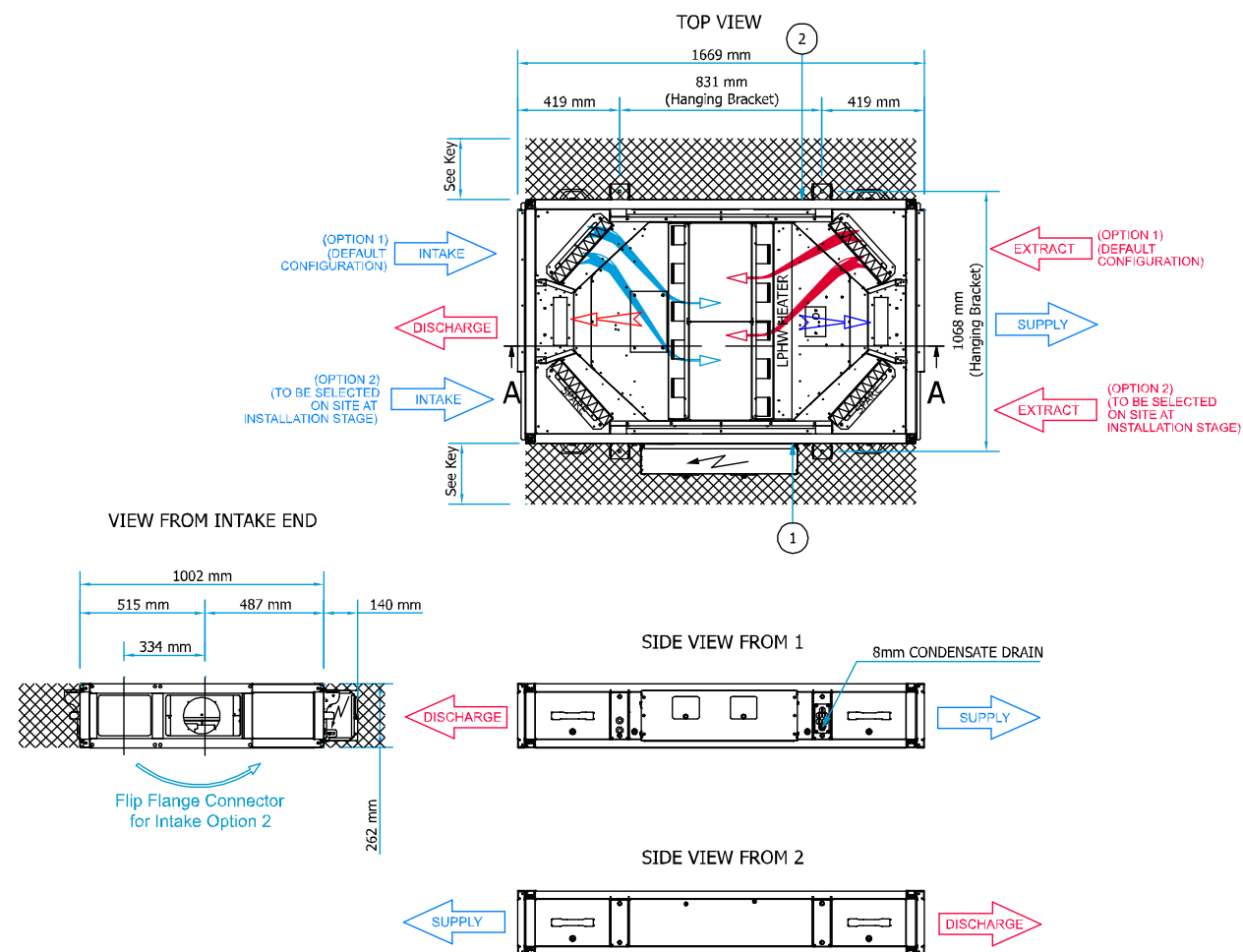
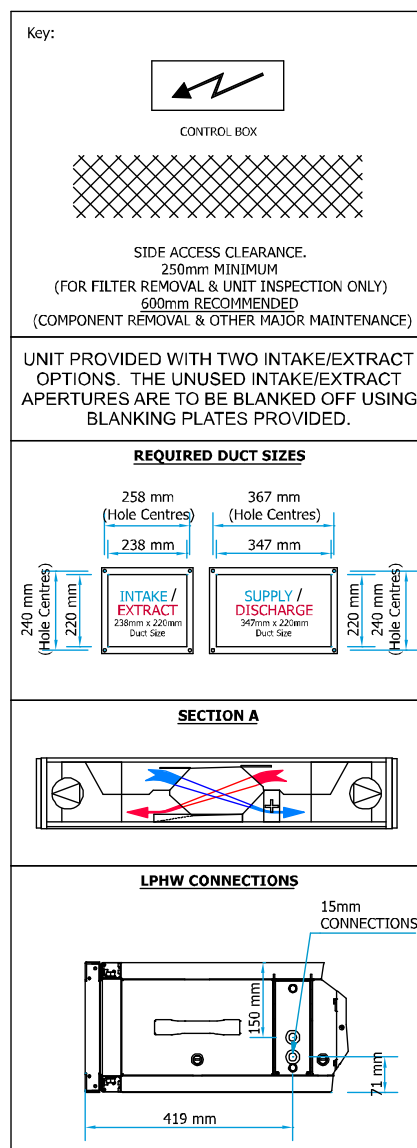
Please DO NOT sign this drawing to confirm handings.
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Drawing generated automatically by Nuaire Selector

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You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus15-hl-r.dwg>

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Project Details

Location: Unit 2

Technical Data

XBC+
Fan Code: **XBC25HLH4E4QA14112B**
Installation Manual Links: 671948

Required duty: 0.174 m³/s at 0 Pa
Addition for ancillaries: +22.56 Pa
Actual duty: 0.383 m³/s at 109 Pa
Actual at required flow: 0.174 m³/s at 758 Pa

When speed controlled to required duty (45.43%):

Motor Input Power: 0.093 kW
Specific Fan Power: 0.5 W/(l/s)

At full speed:

Motor Input Power: 0.995 kW
Specific Fan Power: 2.6 W/(l/s)

Maximum Fan Speed: 3,740 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 60°C
Weight: 242 kg

Sound Data

Noise calculated speed controlled to required duty (45.43%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	54	53	40	43	30	29	29	21	22
Induct Intake	62	56	54	56	51	47	39	38	36
Induct Supply	67	68	63	67	57	57	53	55	46
Induct Discharge	68	69	63	66	57	57	55	56	46
Induct Extract	61	55	53	56	50	47	39	39	36
For 100% speed:	+18	+18	+18	+18	+18	+18	+18	+18	

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

XBC25-HE-MS10-P

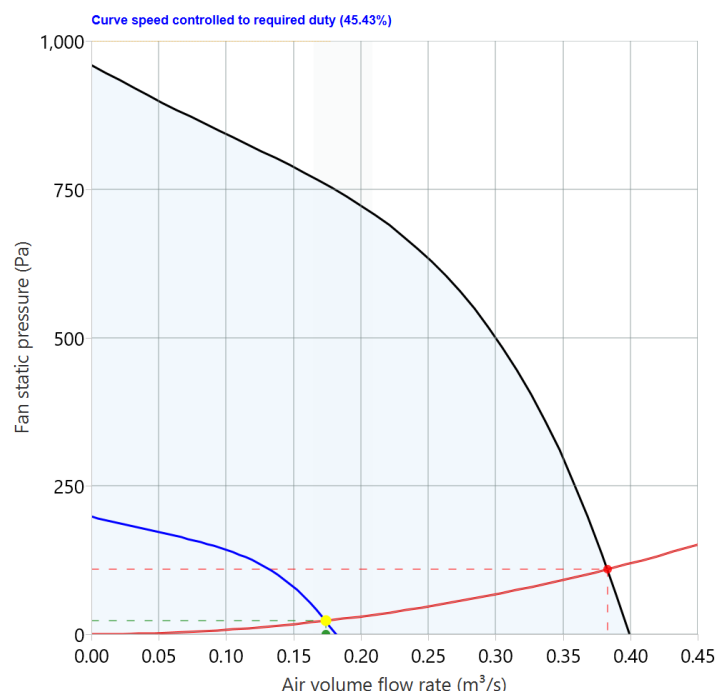
At all volumes -4 -4 -10 -22 -26 -15 -10 -8

XBC25-HS-MS10-P

At all volumes -5 -8 -15 -30 -41 -31 -21 -16

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

Performance Chart



Additional Notes

Selected Ancillaries

- 1 x ES-LCD Ecosmart LCD Touch Screen User Control (White)
- 2 x XBC25-HE-MS10-P Single-skinned painted silencer with C4 protection to BS EN ISO 14713-1:2009. Extract or Intake side, 1050mm length
- 2 x XBC25-HS-MS10-P Single-skinned painted silencer with C4 protection to BS EN ISO 14713-1:2009. Supply or Discharge side, 1050mm length

XBC25-HE-MS10-P - Single-skinned painted silencer with C4 protection to BS EN ISO 14713-1:2009. Extract or Intake side, 1050mm length

Resistance at required duty 8.39 Pa @ 0.17 m³/s
Size: 1050 mm (L) 262 mm (W) 305 mm (H)
Weight: 29.0 kg

XBC25-HS-MS10-P - Single-skinned painted silencer with C4 protection to BS EN ISO 14713-1:2009. Supply or Discharge side, 1050mm length

Resistance at required duty 14.17 Pa @ 0.17 m³/s
Size: 1050 mm (L) 481 mm (W) 305 mm (H)
Weight: 29.0 kg

Specification

XBC25HA-LH4-E-LS4S. 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). LPHW heater battery, valve and actuator. 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. Suitable for Coastal Environment. 1 year warranty (UK and Ireland only) XBC25HLH4E4QA14112B = Unit has been treated for use in a chlorine atmosphere.

ES-LCD

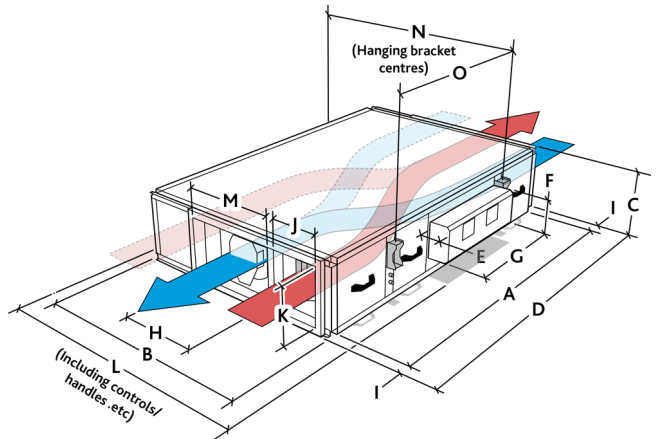
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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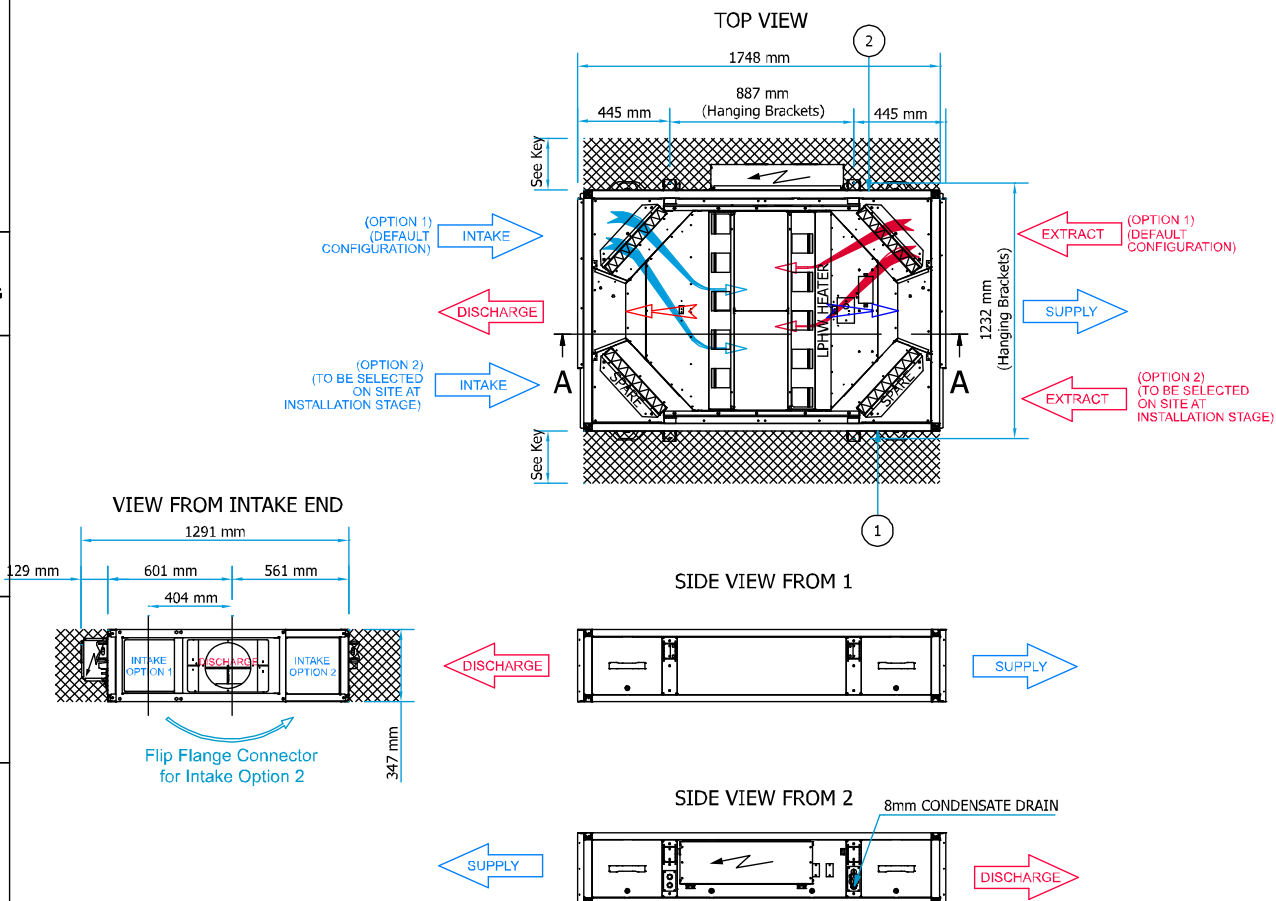
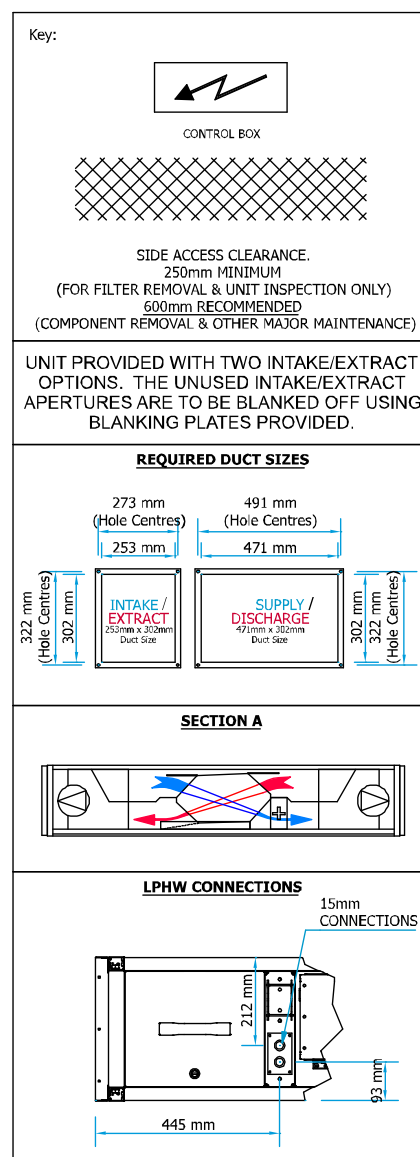
Fan Dimensions



A	B	C	D	E	F	G	H	I
1713	1160	346	1773	140	210	640	413	30
J	K	L	M	N	O	P	kg	
252	302	1350	471	1232	884	242.0		

Length: Width: Height:
1713 1160 346

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus25-hl-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*****

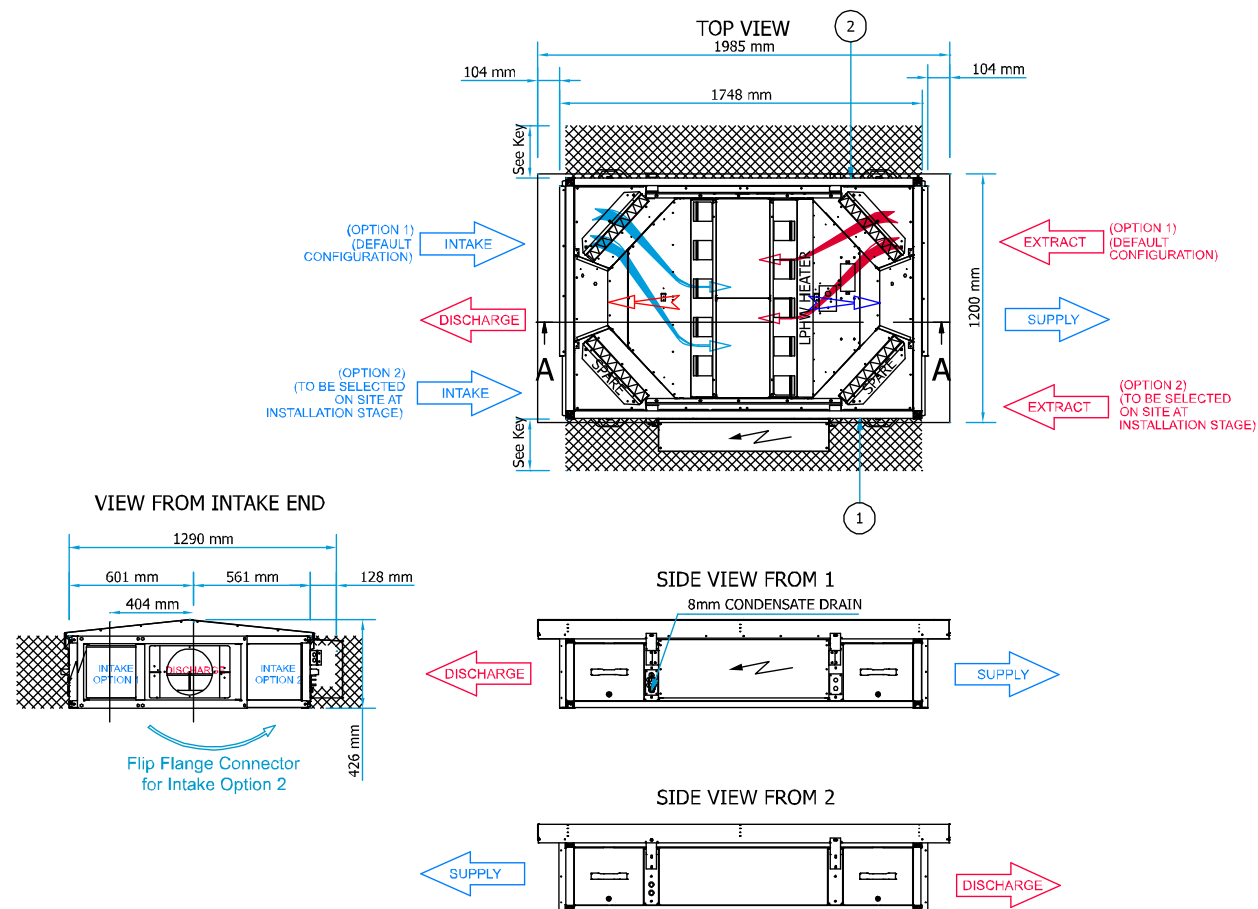
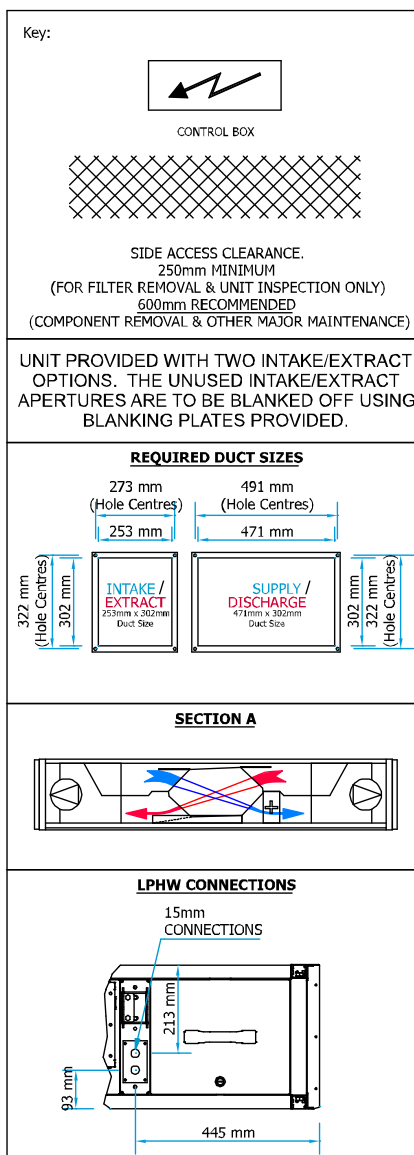
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Project Details

Location: Unit 2A

Technical Data

XBC+
Fan Code: **XBC45HLH4E4QA14112B**
Installation Manual Links: **671948**

Required duty: 0.31 m³/s at 0 Pa
Addition for ancillaries: +27.39 Pa
Actual duty: 0.499 m³/s at 71 Pa
Actual at required flow: 0.31 m³/s at 435 Pa

When speed controlled to required duty (62.11%):

Motor Input Power: 0.228 kW
Specific Fan Power: 0.7 W/(l/s)

At full speed:

Motor Input Power: 0.95 kW
Specific Fan Power: 1.9 W/(l/s)

Maximum Fan Speed: 2,400 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 45°C
Weight: 298 kg

Sound Data

Noise calculated speed controlled to required duty (62.11%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	63	54	51	36	34	33	29	18	25
Induct Intake	72	64	64	53	53	51	43	34	39
Induct Supply	76	69	74	60	61	60	55	51	48
Induct Discharge	77	70	74	60	61	61	55	53	48
Induct Extract	73	64	65	52	53	52	42	33	39
For 100% speed:	+11	+11	+11	+11	+11	+11	+11	+11	

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

XBC45-HE-MS10-P

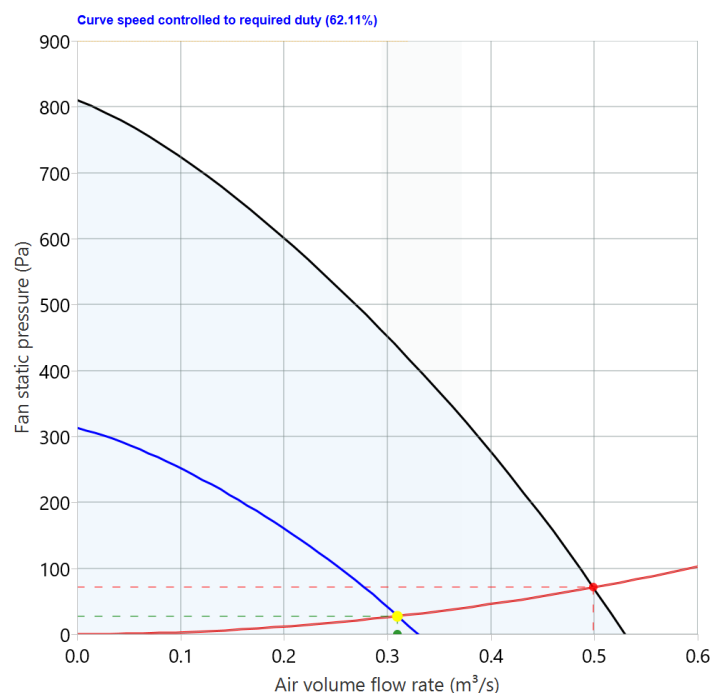
At all volumes -3 -5 -11 -13 -15 -11 -6 -4

XBC45-HS-MS10-P

At all volumes -5 -9 -16 -13 -11 -8 -7 -6

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 ES-LCD Ecosmart LCD Touch Screen User Control (White)
- 2 x XBC45-HE-MS10-P Single-skinned painted silencer with C4 protection to BS EN ISO 14713-1:2009. Extract or Intake side, 1050mm length
- 2 x XBC45-HS-MS10-P Single-skinned painted silencer with C4 protection to BS EN ISO 14713-1:2009. Supply or Discharge side, 1050mm length

XBC45-HE-MS10-P - Single-skinned painted silencer with C4 protection to BS EN ISO 14713-1:2009. Extract or Intake side, 1050mm length

Resistance at required duty 19.7 Pa @ 0.31 m³/s
Size: 1050 mm (L) 280 mm (W) 365 mm (H)
Weight: 32.0 kg

XBC45-HS-MS10-P - Single-skinned painted silencer with C4 protection to BS EN ISO 14713-1:2009. Supply or Discharge side, 1050mm length

Resistance at required duty 7.69 Pa @ 0.31 m³/s
Size: 1050 mm (L) 525 mm (W) 365 mm (H)
Weight: 32.0 kg

Specification

XBC45HA-LH4-E-LS4S. 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). LPHW heater battery, valve and actuator. 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. Suitable for Coastal Environment. 1 year warranty (UK and Ireland only) XBC45HLH4E4QA14112B = Unit has been treated for use in a chlorine atmosphere.

ES-LCD

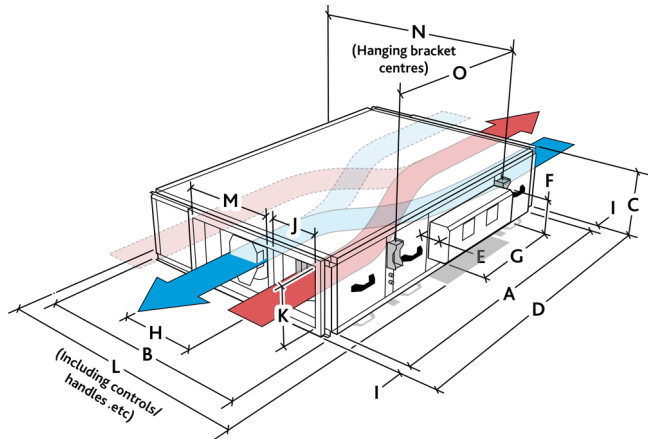
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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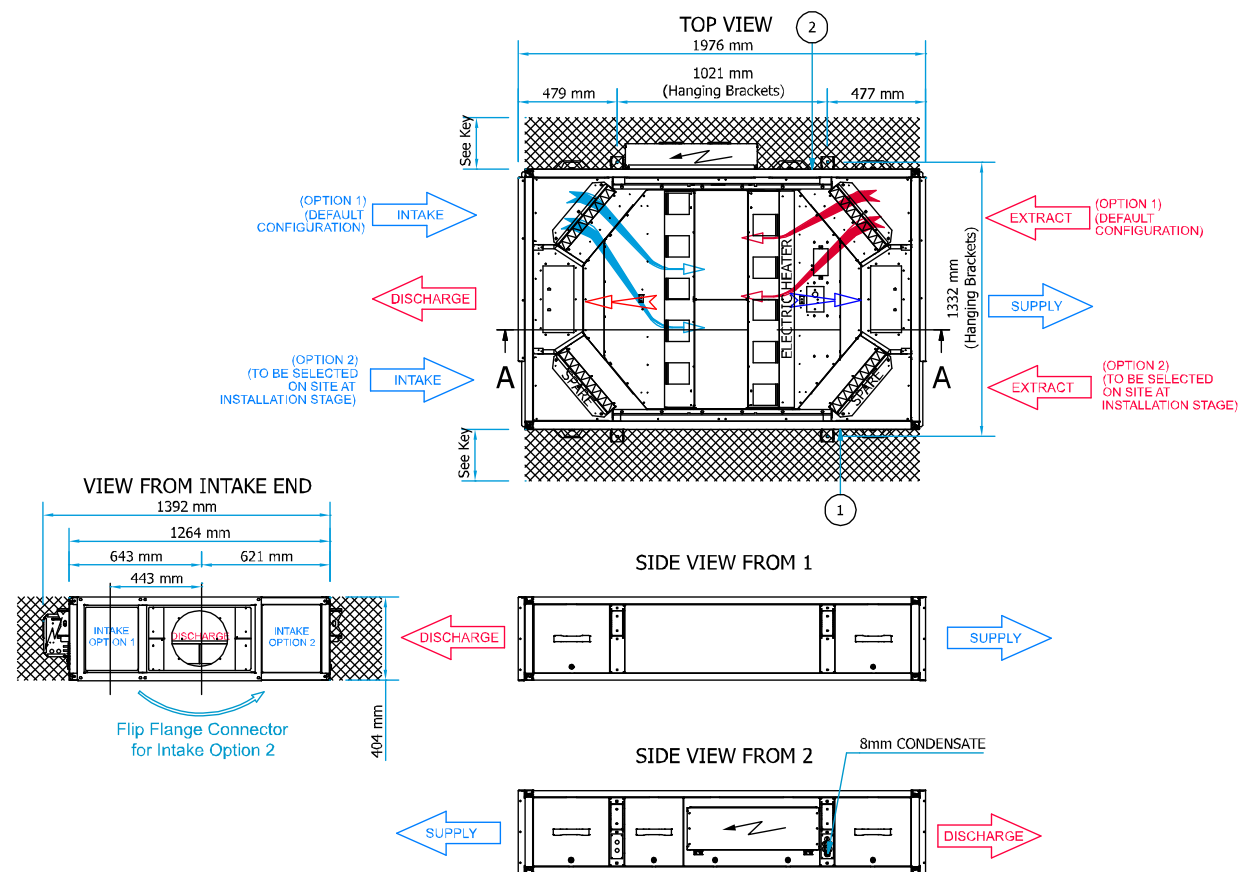
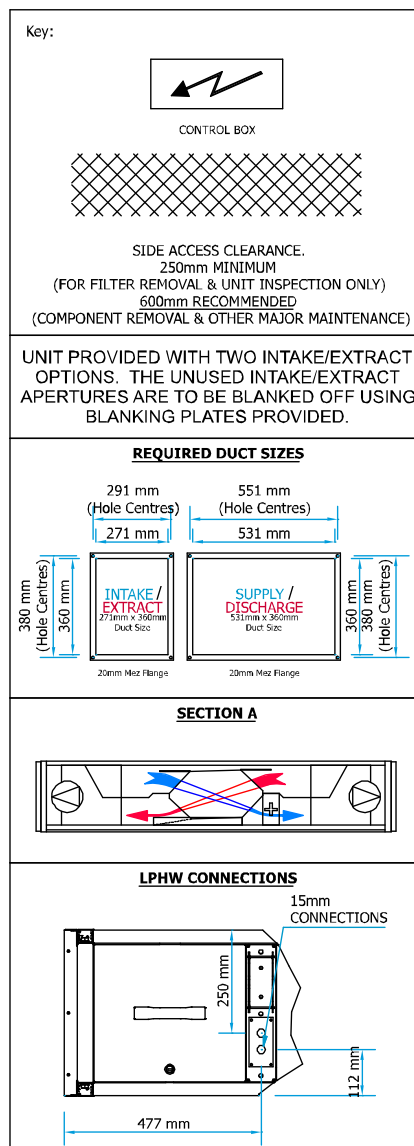
Fan Dimensions



A	B	C	D	E	F	G	H	I
1913	1262	405	1973	140	210	640	443	30
J	K	L	M	N	O	kg		
270	360	1461	531	1332	1020	298.0		

Length: Width: Height:
1913 1262 405

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus45-hl-l.dwg>

Please Note: This drawing details the factory-standard unit (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*****

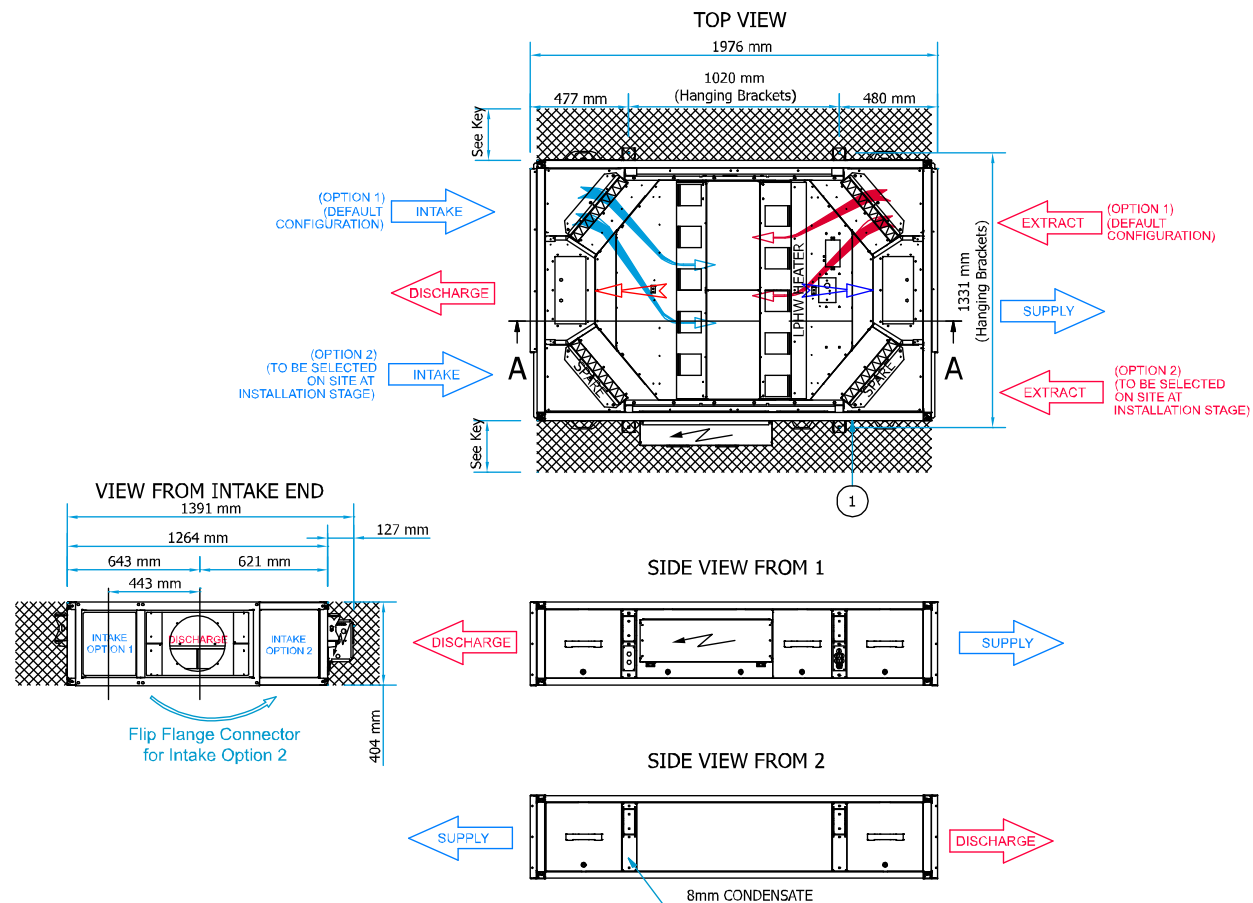
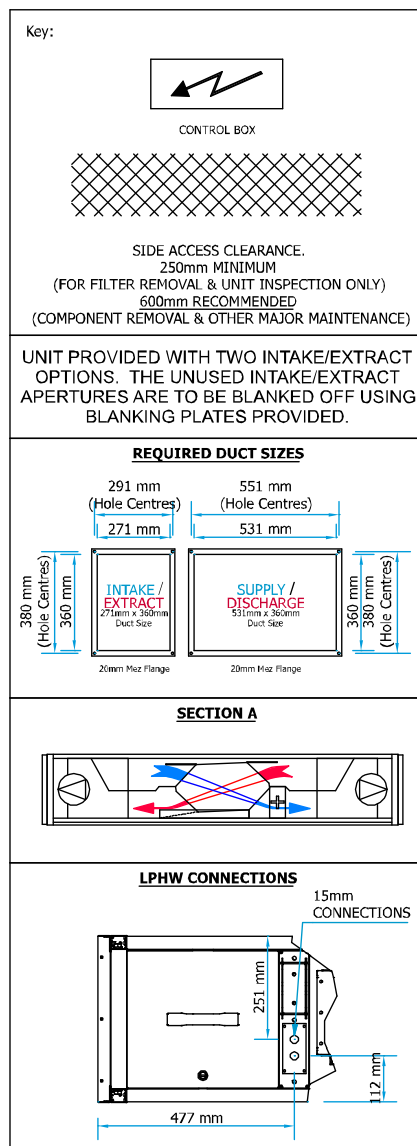
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SUMMARY FAN DATA SHEET

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Project Details

Location: Unit 3

Technical Data

XBC+
Fan Code: **XBC45HA-LH4-E-LS1S**
Installation Manual Links: 671948

Required duty: 0.272 m³/s at 0 Pa
Addition for ancillaries: +21.09 Pa
Actual duty: 0.499 m³/s at 71 Pa
Actual at required flow: 0.272 m³/s at 496 Pa

When speed controlled to required duty (54.5%):

Motor Input Power: 0.154 kW
Specific Fan Power: 0.6 W/(l/s)

At full speed:

Motor Input Power: 0.95 kW
Specific Fan Power: 1.9 W/(l/s)

Maximum Fan Speed: 2,400 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 45°C
Weight: 298 kg

Sound Data

Noise calculated speed controlled to required duty (54.5%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	60	51	48	33	31	30	26	<16	22
Induct Intake	69	61	61	50	50	48	40	31	36
Induct Supply	73	66	71	57	58	57	52	48	45
Induct Discharge	74	67	71	57	58	58	52	50	45
Induct Extract	70	61	62	49	50	49	39	30	36
For 100% speed:	+14	+14	+14	+14	+14	+14	+14	+14	

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

XBC45-HS-MS10

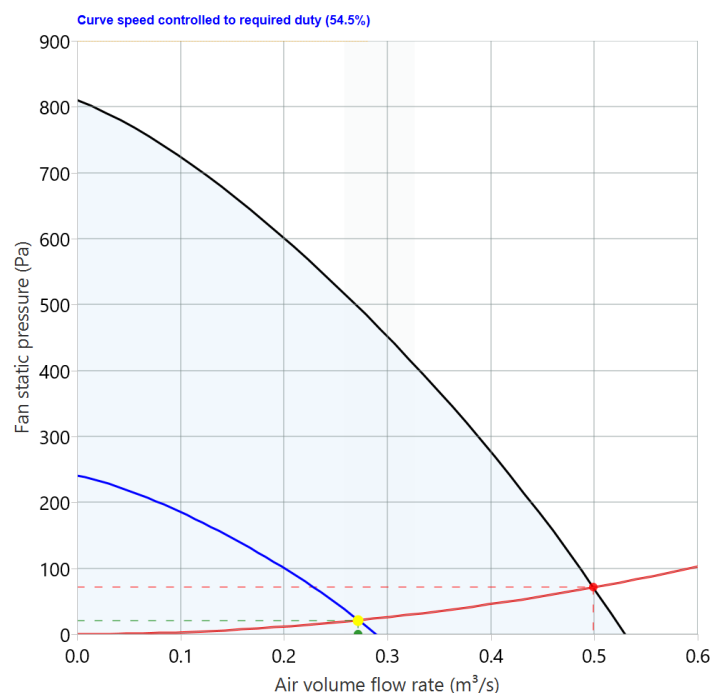
At all volumes -5 -9 -16 -13 -11 -8 -7 -6

XBC45-HE-MS10

At all volumes -3 -5 -11 -13 -15 -11 -6 -4

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 ES-LCD	Ecosmart LCD Touch Screen User Control (White)
2 x XBC45-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length
2 x XBC45-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length

XBC45-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 5.92 Pa @ 0.27 m³/s

Size: 1050 mm (L) 525 mm (W) 365 mm (H)

Weight: 69.0 kg

XBC45-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 15.17 Pa @ 0.27 m³/s

Size: 1050 mm (L) 280 mm (W) 365 mm (H)

Weight: 49.0 kg

Specification

XBC45HA-LH4-E-LS1S. 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). LPHW heater battery, valve and actuator. 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. 5 year warranty (UK and Ireland only)

ES-LCD

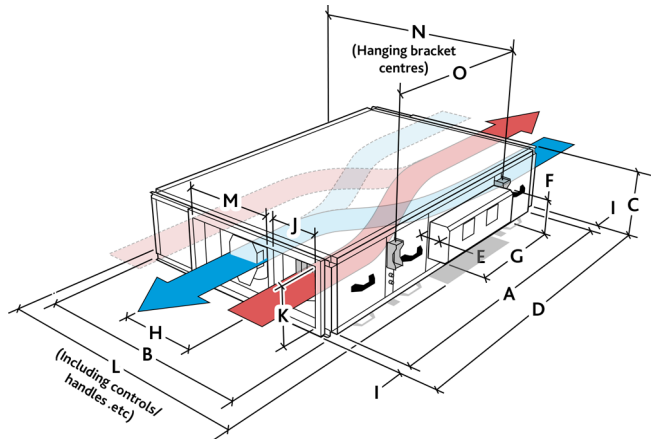
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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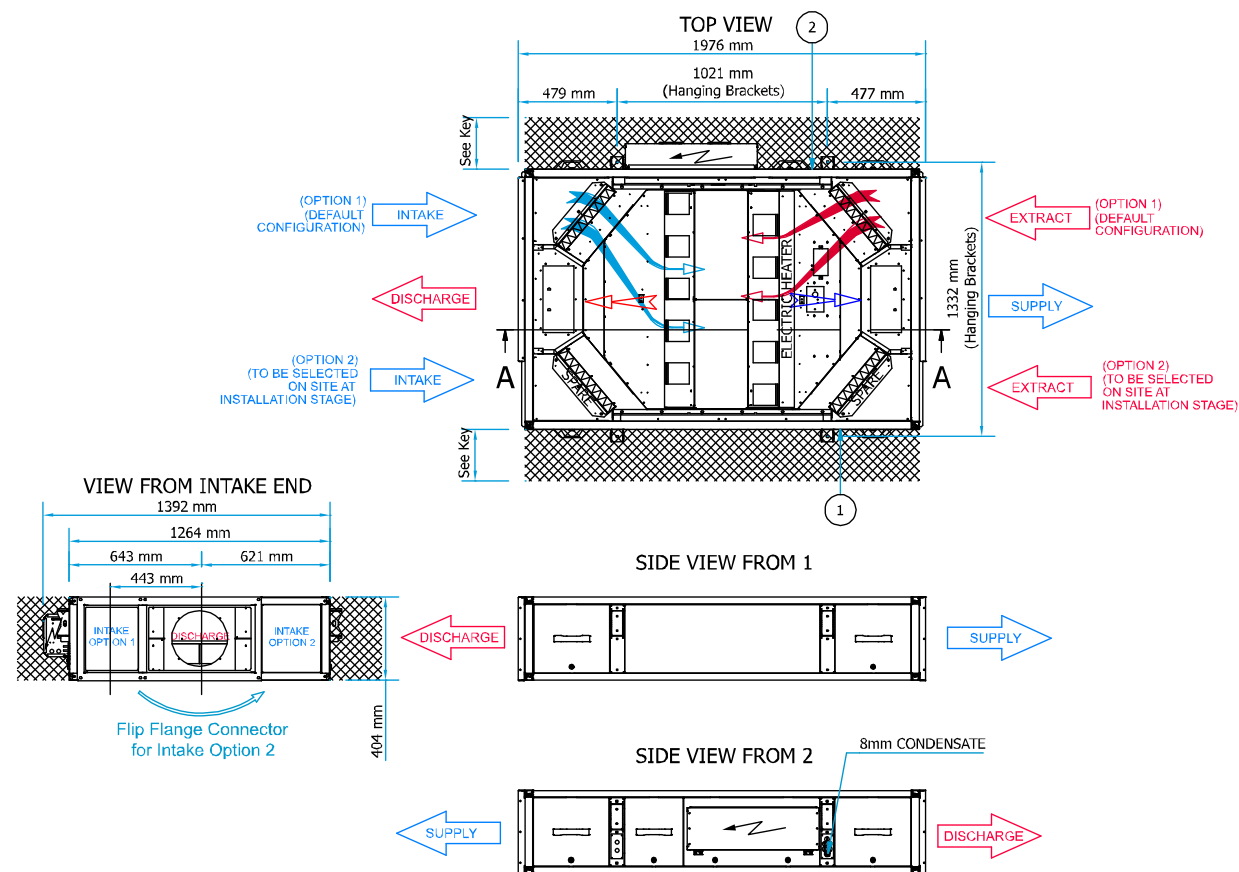
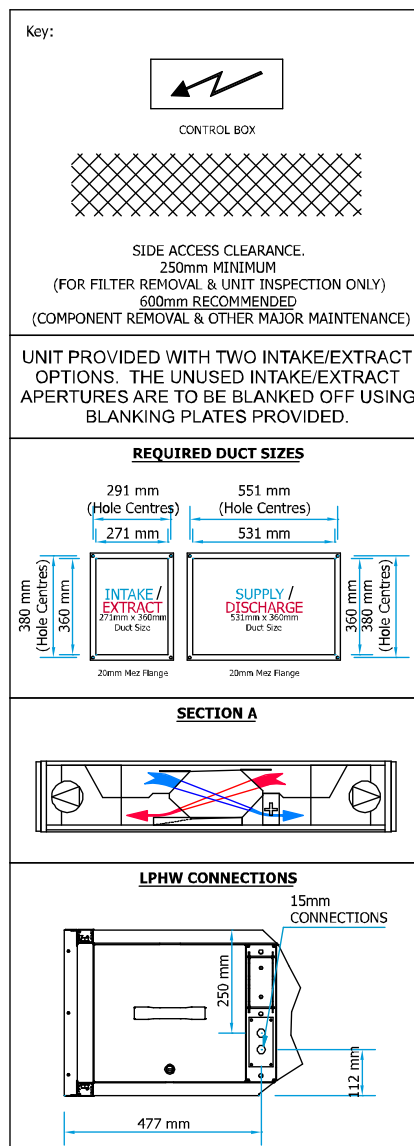
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Fan Dimensions



A	B	C	D	E	F	G	H	I		
1913	1262	405	1973	140	210	640	443	30		
J	K	L	M	N	O	kg				
270	360	1461	531	1332	1020	298.0				
Length: Width: Height:										
1913	1262	405								

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus45-hl-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*****

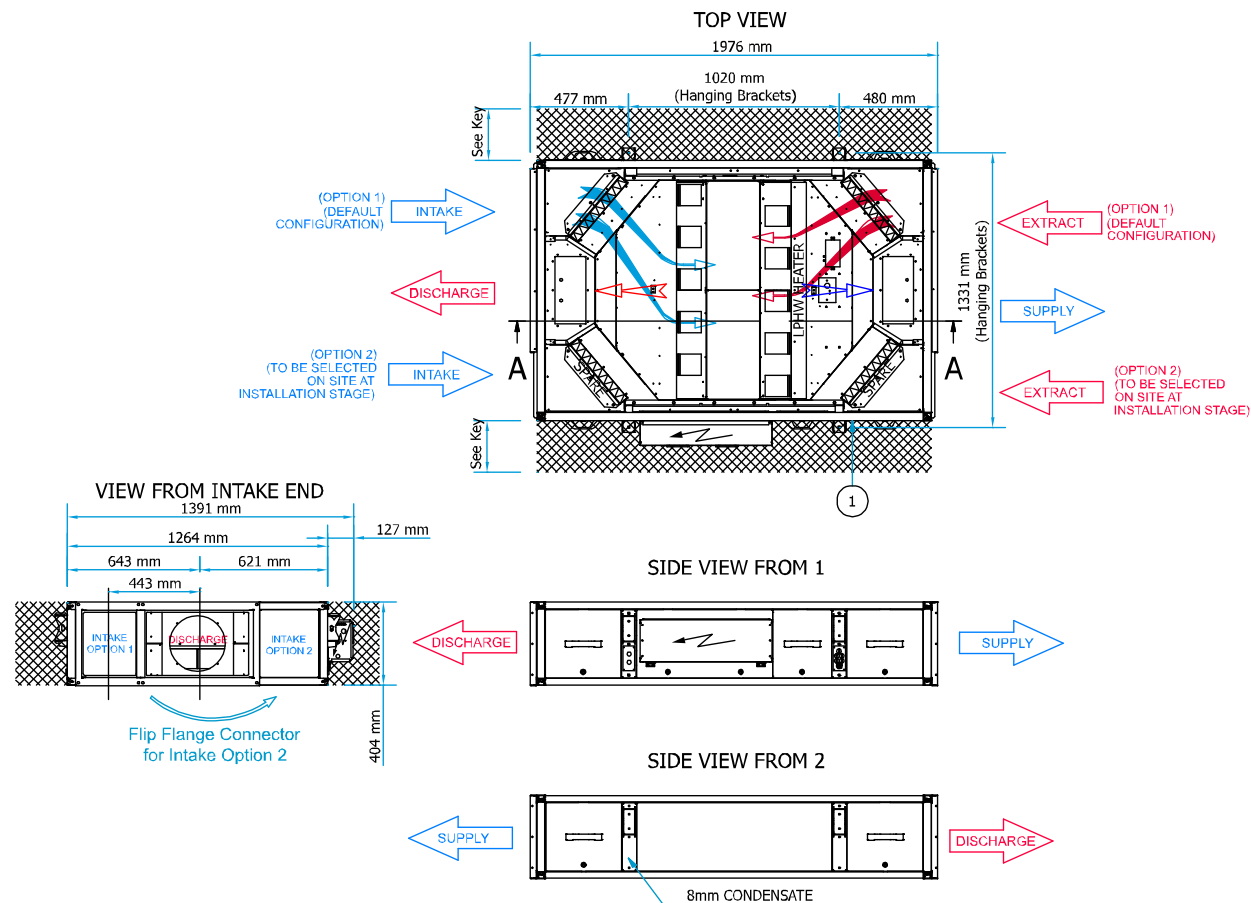
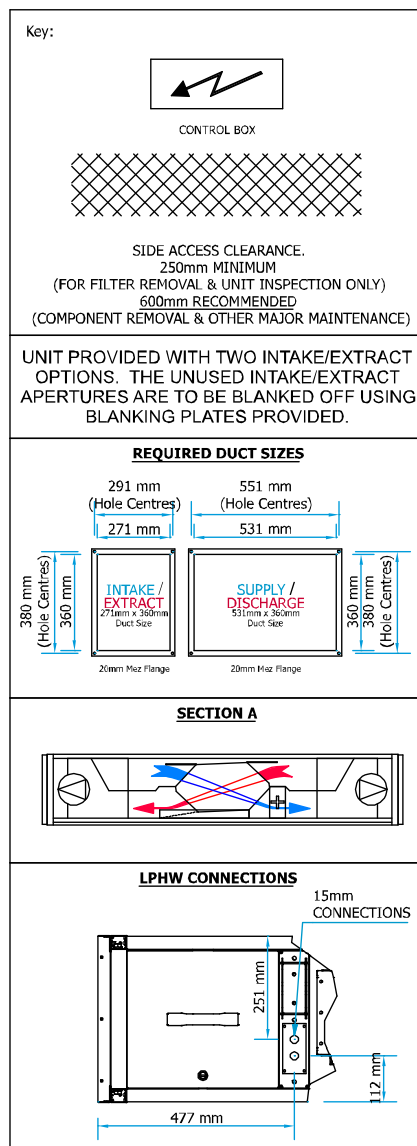
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Project Details

Location: Unit 3A

Technical Data

XBC+
Fan Code: **XBC45HA-LH4-E-LS1S**
Installation Manual Links: 671948

Required duty: 0.302 m³/s at 0 Pa
Addition for ancillaries: +25.99 Pa
Actual duty: 0.499 m³/s at 71 Pa
Actual at required flow: 0.302 m³/s at 448 Pa

When speed controlled to required duty (60.51%):

Motor Input Power: 0.211 kW
Specific Fan Power: 0.7 W/(l/s)

At full speed:

Motor Input Power: 0.95 kW
Specific Fan Power: 1.9 W/(l/s)

Maximum Fan Speed: 2,400 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 45°C
Weight: 298 kg

Sound Data

Noise calculated speed controlled to required duty (60.51%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	63	54	51	36	34	33	29	18	24
Induct Intake	72	64	64	53	53	51	43	34	38
Induct Supply	76	69	74	60	61	60	55	51	47
Induct Discharge	77	70	74	60	61	61	55	53	47
Induct Extract	73	64	65	52	53	52	42	33	39
For 100% speed:	+11	+11	+11	+11	+11	+11	+11	+11	

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

XBC45-HS-MS10

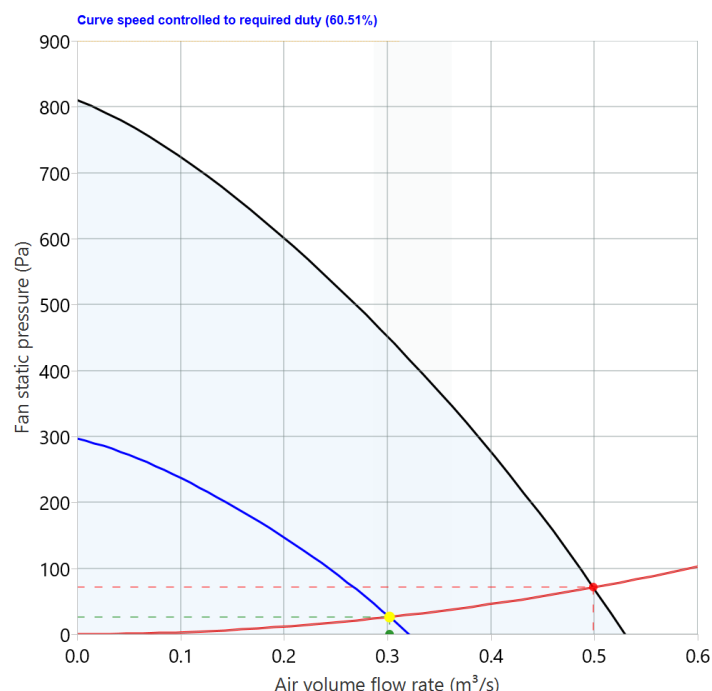
At all volumes -5 -9 -16 -13 -11 -8 -7 -6

XBC45-HE-MS10

At all volumes -3 -5 -11 -13 -15 -11 -6 -4

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 ES-LCD	Ecosmart LCD Touch Screen User Control (White)
2 x XBC45-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length
2 x XBC45-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length

XBC45-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 7.3 Pa @ 0.30 m³/s

Size: 1050 mm (L) 525 mm (W) 365 mm (H)

Weight: 69.0 kg

XBC45-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 18.7 Pa @ 0.30 m³/s

Size: 1050 mm (L) 280 mm (W) 365 mm (H)

Weight: 49.0 kg

Specification

XBC45HA-LH4-E-LS1S. Nuair 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). LPHW heater battery, valve and actuator. 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. 5 year warranty (UK and Ireland only)

ES-LCD

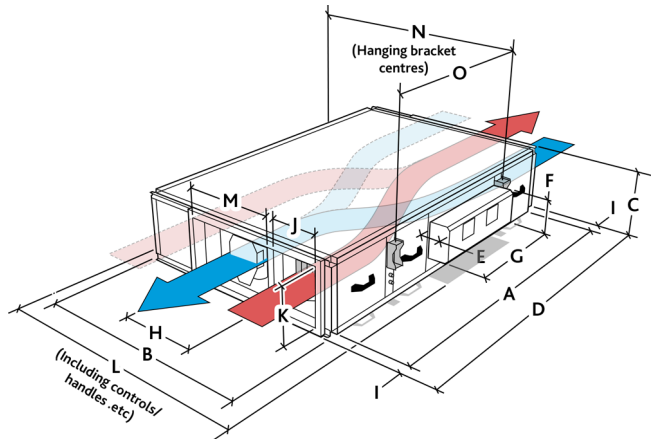
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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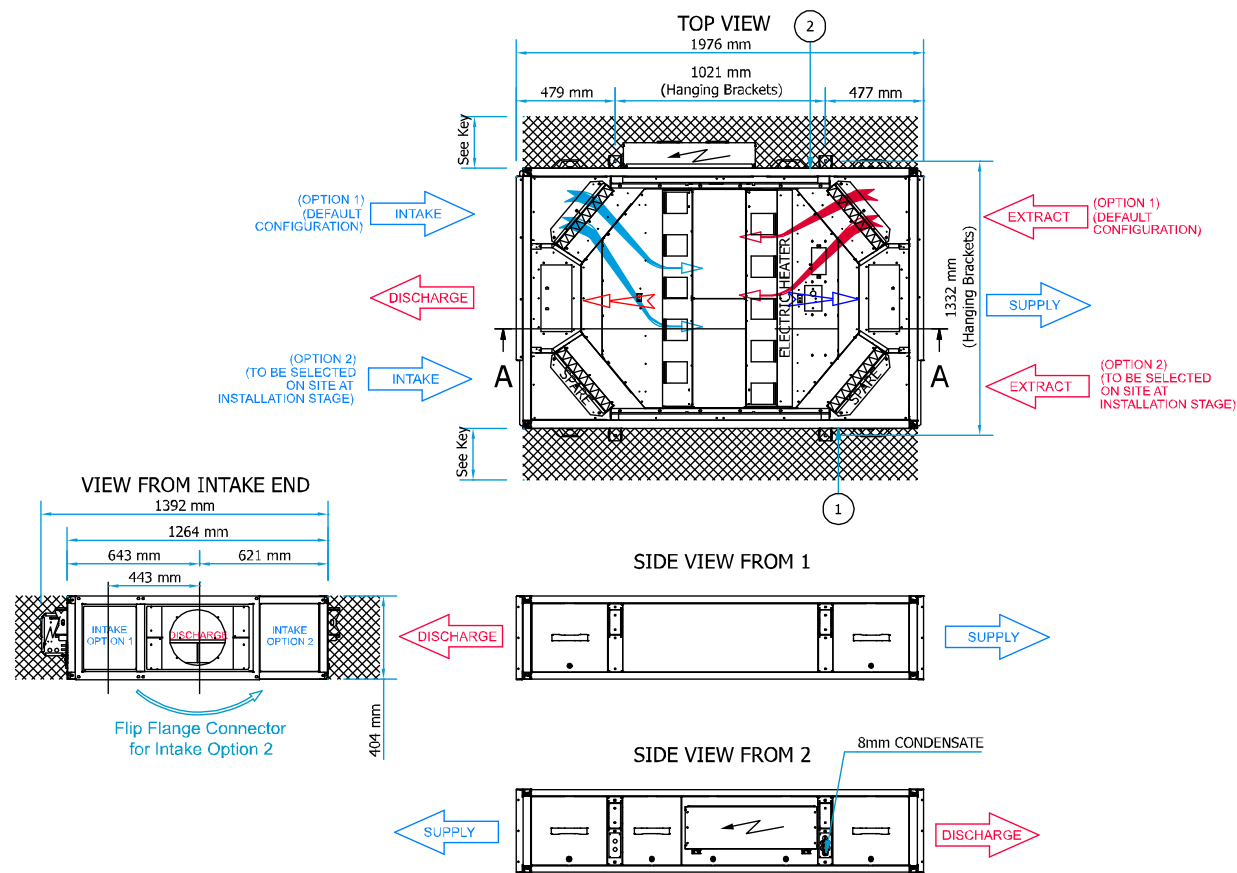
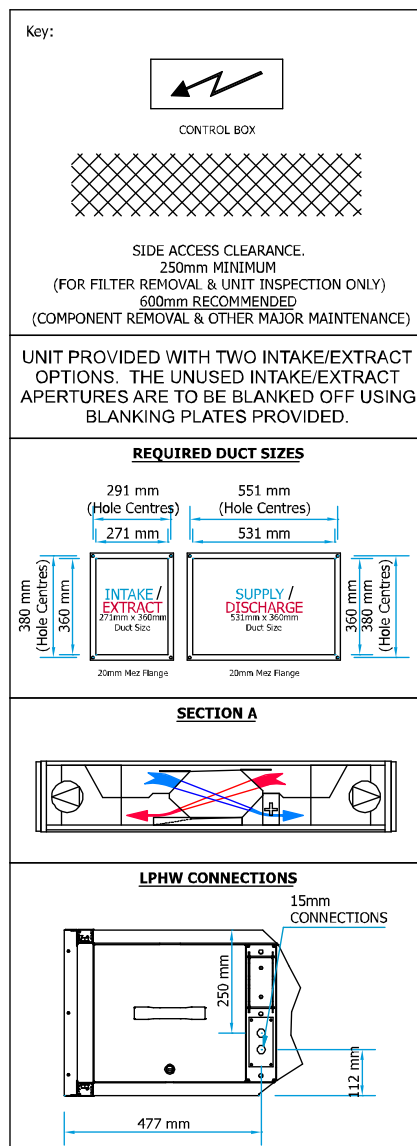
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
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Fan Dimensions



A	B	C	D	E	F	G	H	I
1913	1262	405	1973	140	210	640	443	30
J	K	L	M	N	O	kg		
270	360	1461	531	1332	1020	298.0		
Length: 1913		Width: 1262		Height: 405				

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus45-hl-l.dwg>

Please Note: This drawing details the factory-standard unit (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*****

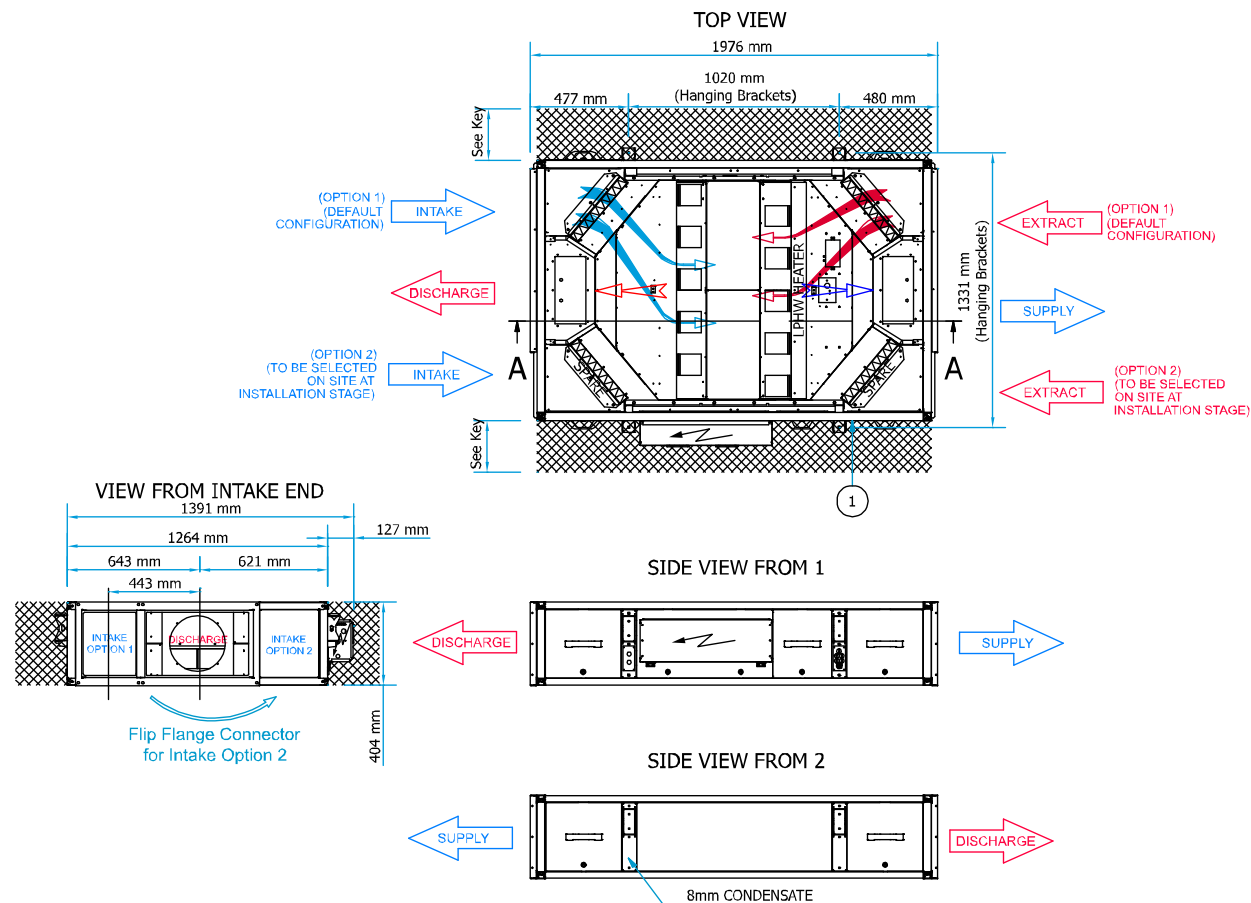
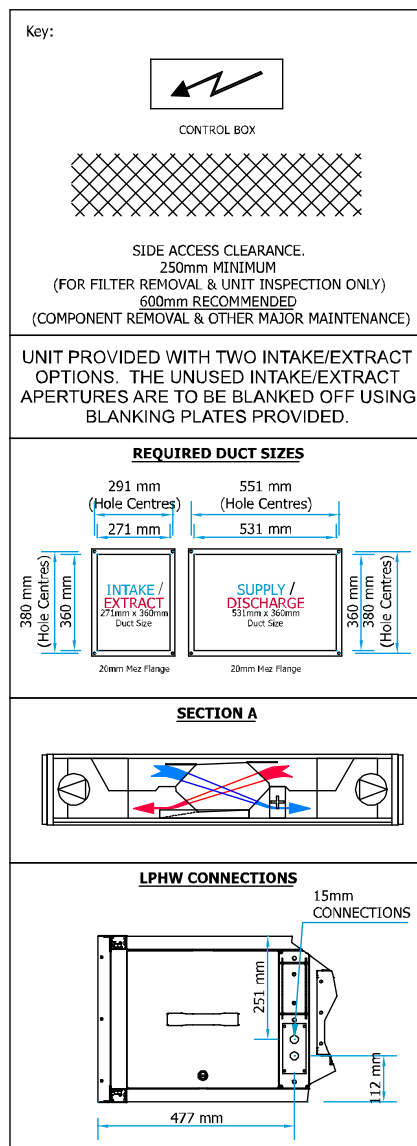
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You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus45-hl-r.dwg>

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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Project Details

Location: Unit 4

Technical Data

XBC+

Fan Code: **XBC45HA-LH4-E-LS1S**
Installation Manual Links: 671948

Required duty: 0.264 m³/s at 0 Pa
Addition for ancillaries: +143.85 Pa
Actual duty: 0.385 m³/s at 306 Pa
Actual at required flow: 0.264 m³/s at 508 Pa

When speed controlled to required duty (68.63%):

Motor Input Power: 0.298 kW
Specific Fan Power: 1.1 W/(l/s)

At full speed:

Motor Input Power: 0.921 kW
Specific Fan Power: 2.4 W/(l/s)

Maximum Fan Speed: 2,400 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 45°C
Weight: 298 kg

Sound Data

Noise calculated speed controlled to required duty (68.63%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	65	56	53	38	36	35	31	20	27
Induct Intake	74	66	66	55	55	53	45	36	41
Induct Supply	78	71	76	62	63	62	57	53	50
Induct Discharge	79	72	76	62	63	63	57	55	50
Induct Extract	75	66	67	54	55	54	44	35	41
For 100% speed:	+9	+9	+9	+9	+9	+9	+9	+9	

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

XBC45-HS-MS10

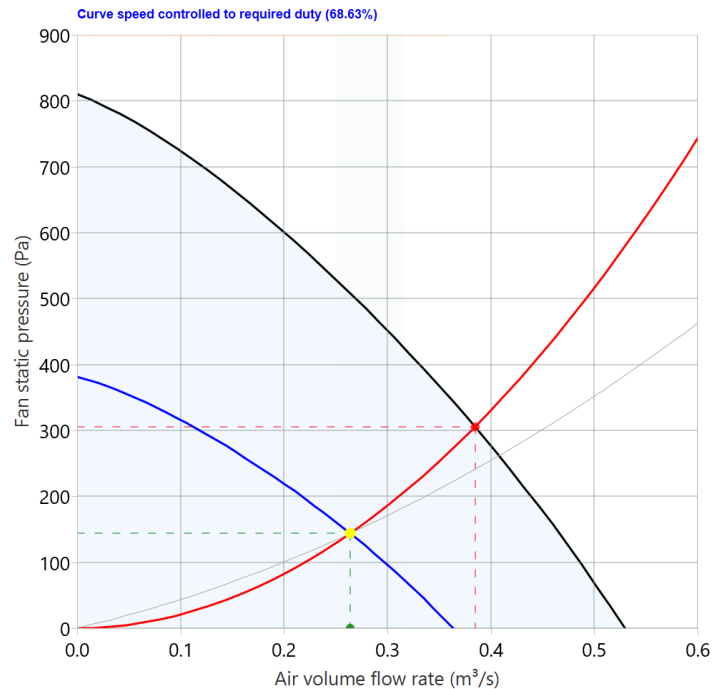
At all volumes -5 -9 -16 -13 -11 -8 -7 -6

XBC45-HE-MS10

At all volumes -3 -5 -11 -13 -15 -11 -6 -4

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 XBC45-F7	F7 panel filter (pressure drop for swapping G4 panel filter)
1 x ES-LCD	Ecosmart LCD Touch Screen User Control (White)
2 x XBC45-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length
2 x XBC45-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length

XBC45-F7 - F7 panel filter (pressure drop for swapping G4 panel filter)

Resistance at required duty 123.99 Pa @ 0.26 m³/s

XBC45-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 5.58 Pa @ 0.26 m³/s

Size: 1050 mm (L) 525 mm (W) 365 mm (H)

Weight: 69.0 kg

XBC45-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 14.29 Pa @ 0.26 m³/s

Size: 1050 mm (L) 280 mm (W) 365 mm (H)

Weight: 49.0 kg

Specification

XBC45HA-LH4-E-LS1S. 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). LPHW heater battery, valve and actuator. 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. 5 year warranty (UK and Ireland only)

ES-LCD

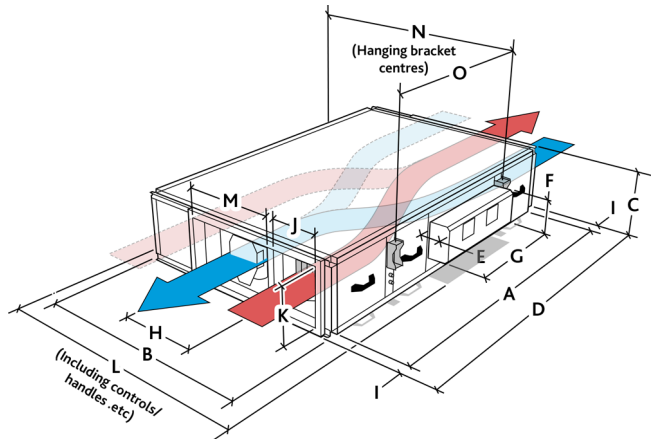
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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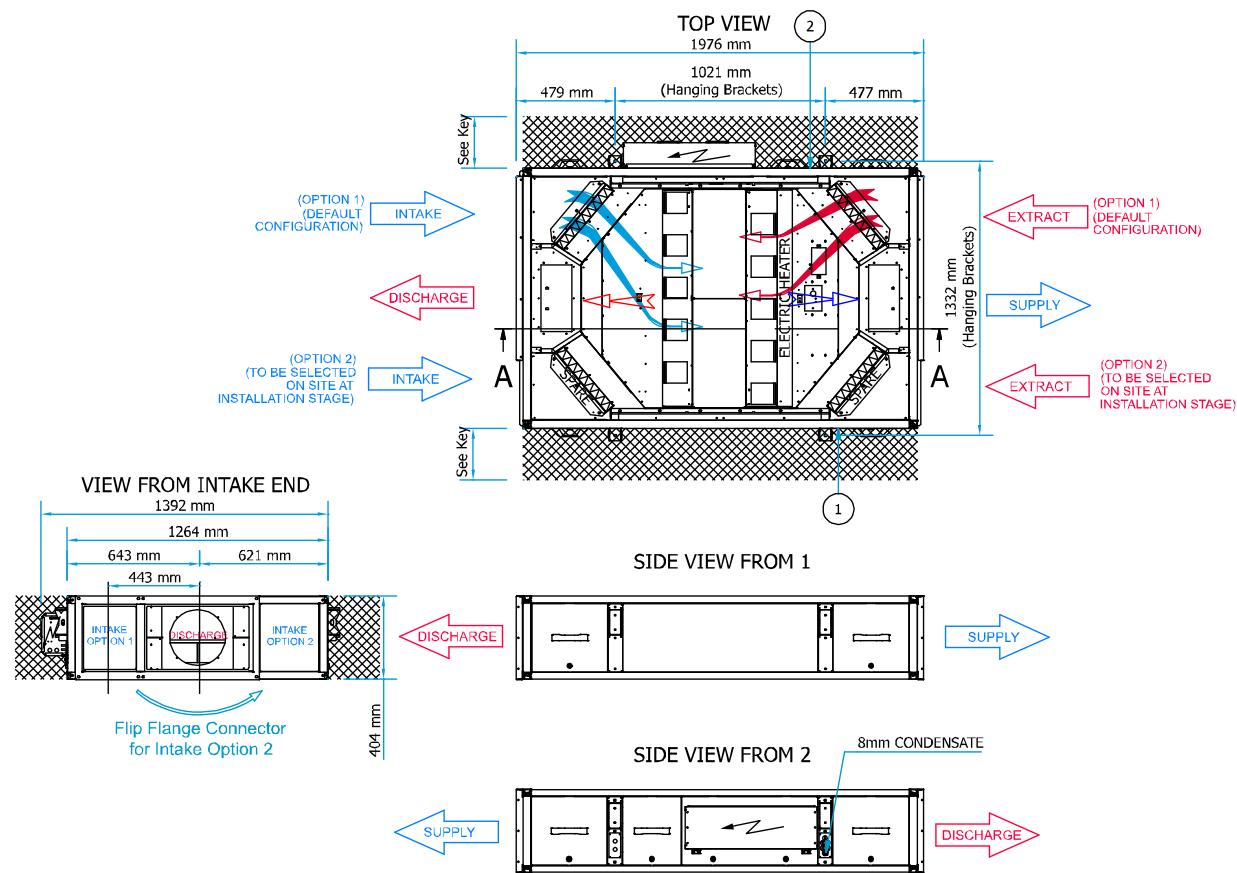
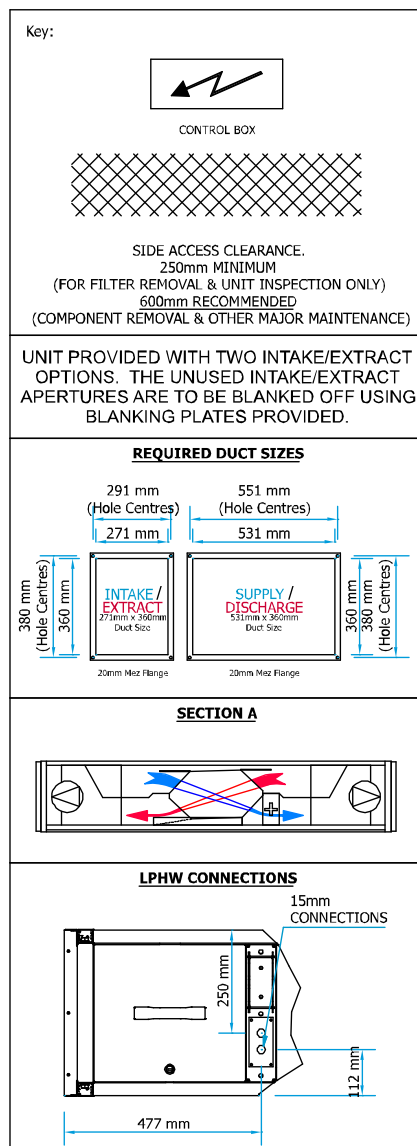
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
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Fan Dimensions



A	B	C	D	E	F	G	H	I
1913	1262	405	1973	140	210	640	443	30
J	K	L	M	N	O	kg		
270	360	1461	531	1332	1020	298.0		
Length: Width: Height:								
1913	1262	405						

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus45-hl-l.dwg>

Please Note: This drawing details the factory-standard unit (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*****

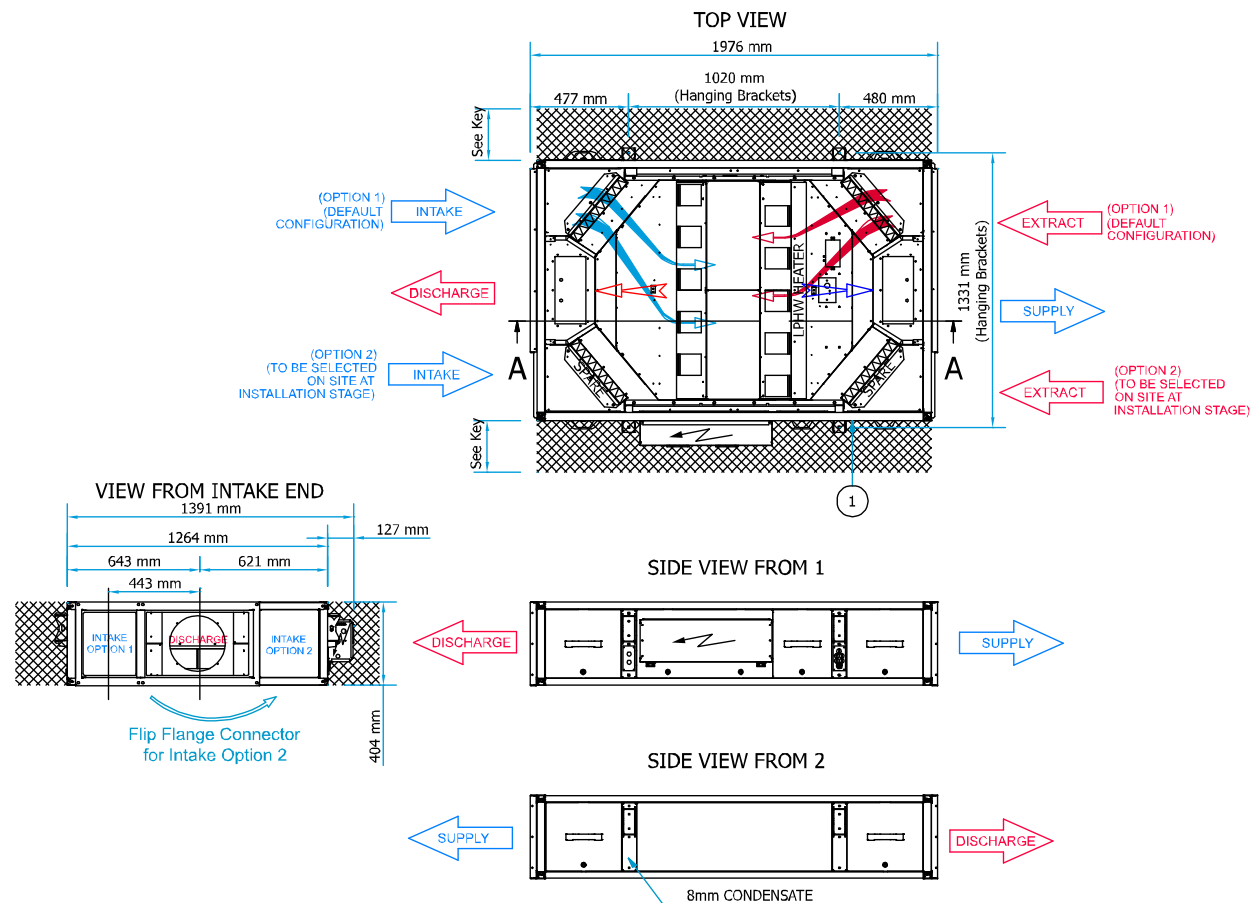
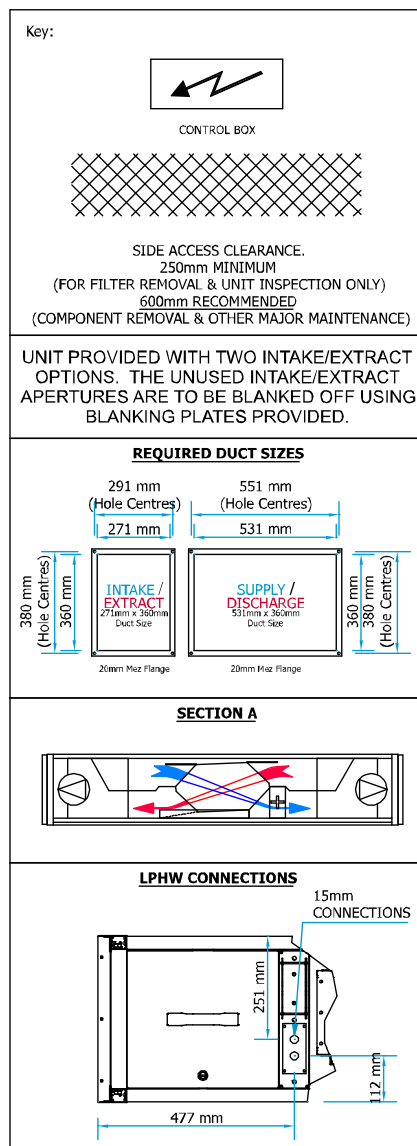
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You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus45-hl-r.dwg>

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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Project Details

Location: Unit 5

Technical Data

XBC+

Fan Code: **XBC45HA-LH4-E-RS1S**
Installation Manual Links: 671948

Required duty: 0.301 m³/s at 0 Pa
Addition for ancillaries: +25.82 Pa
Actual duty: 0.499 m³/s at 71 Pa
Actual at required flow: 0.301 m³/s at 450 Pa

When speed controlled to required duty (60.31%):

Motor Input Power: 0.208 kW
Specific Fan Power: 0.7 W/(l/s)

At full speed:

Motor Input Power: 0.95 kW
Specific Fan Power: 1.9 W/(l/s)

Maximum Fan Speed: 2,400 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 45°C
Weight: 298 kg

Sound Data

Noise calculated speed controlled to required duty (60.31%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	63	54	51	36	34	33	29	18	24
Induct Intake	72	64	64	53	53	51	43	34	38
Induct Supply	76	69	74	60	61	60	55	51	47
Induct Discharge	77	70	74	60	61	61	55	53	47
Induct Extract	73	64	65	52	53	52	42	33	39
For 100% speed:	+11	+11	+11	+11	+11	+11	+11	+11	

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

XBC45-HS-MS10

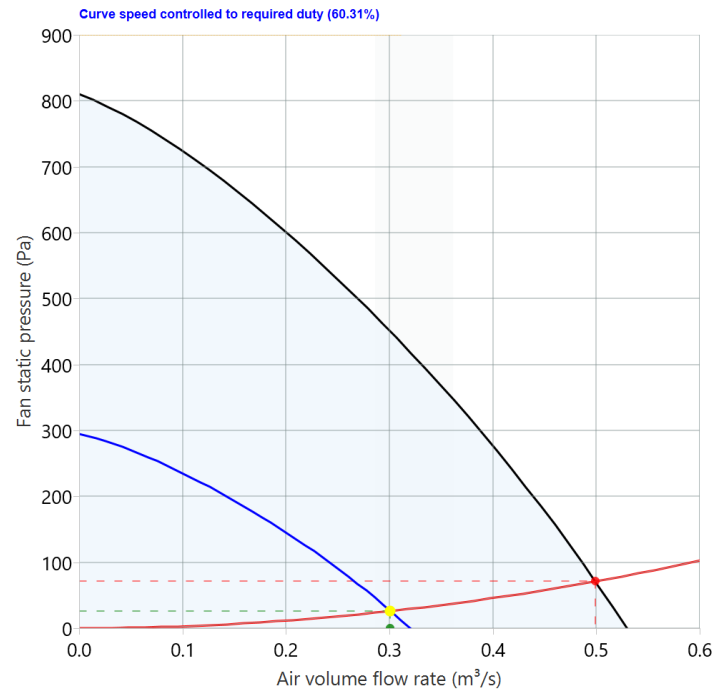
At all volumes -5 -9 -16 -13 -11 -8 -7 -6

XBC45-HE-MS10

At all volumes -3 -5 -11 -13 -15 -11 -6 -4

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 ES-LCD	Ecosmart LCD Touch Screen User Control (White)
2 x XBC45-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length
2 x XBC45-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length

XBC45-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 7.25 Pa @ 0.30 m³/s
Size: 1050 mm (L) 525 mm (W) 365 mm (H)
Weight: 69.0 kg

XBC45-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 18.57 Pa @ 0.30 m³/s
Size: 1050 mm (L) 280 mm (W) 365 mm (H)
Weight: 49.0 kg

Specification

XBC45HA-LH4-E-RS1S. 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). LPHW heater battery, valve and actuator. 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 RIGHT HANDED. 5 year warranty (UK and Ireland only)

ES-LCD

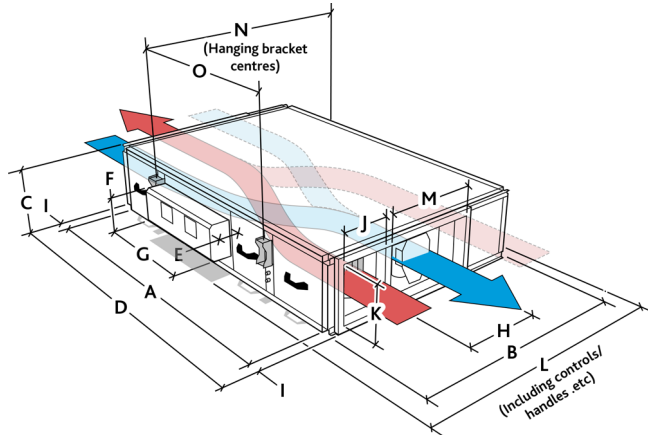
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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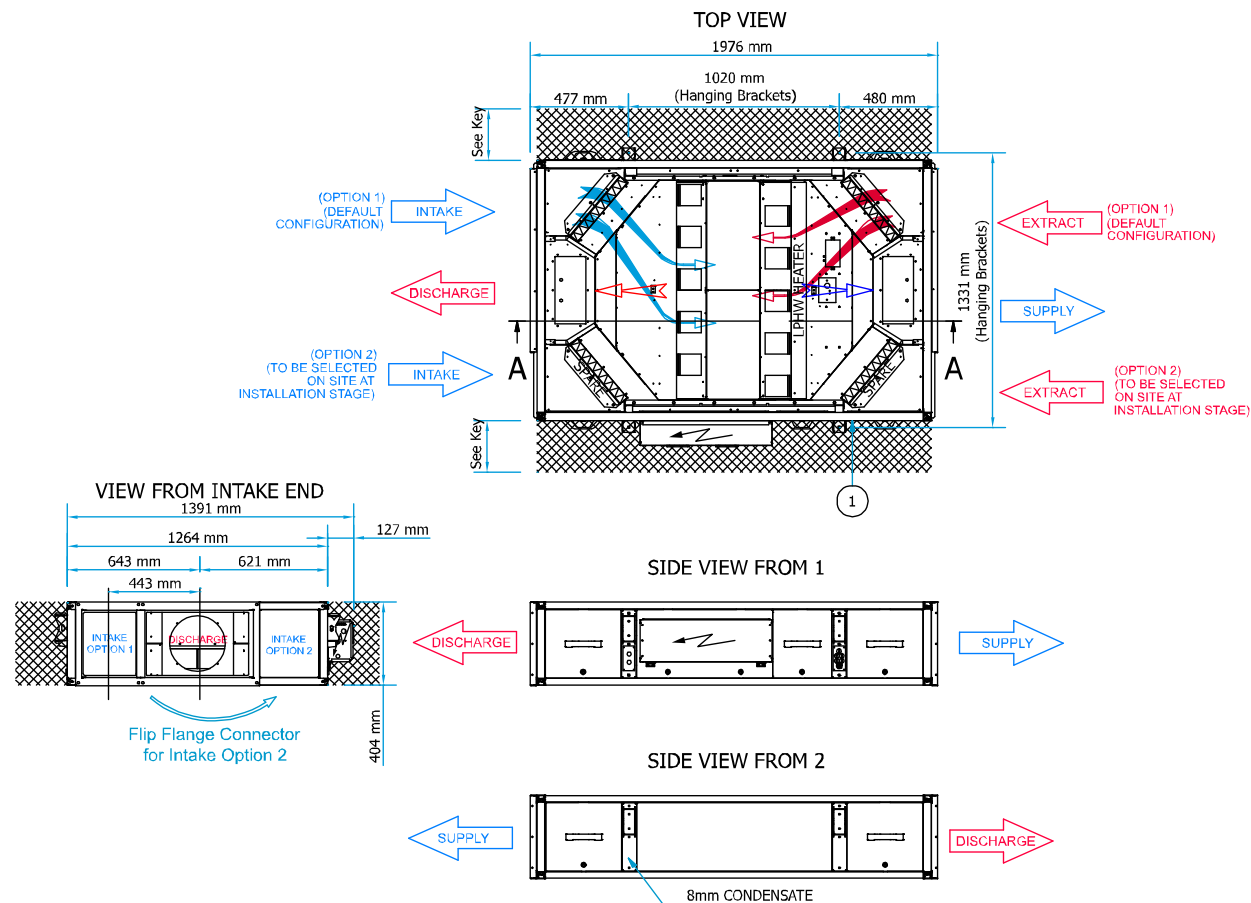
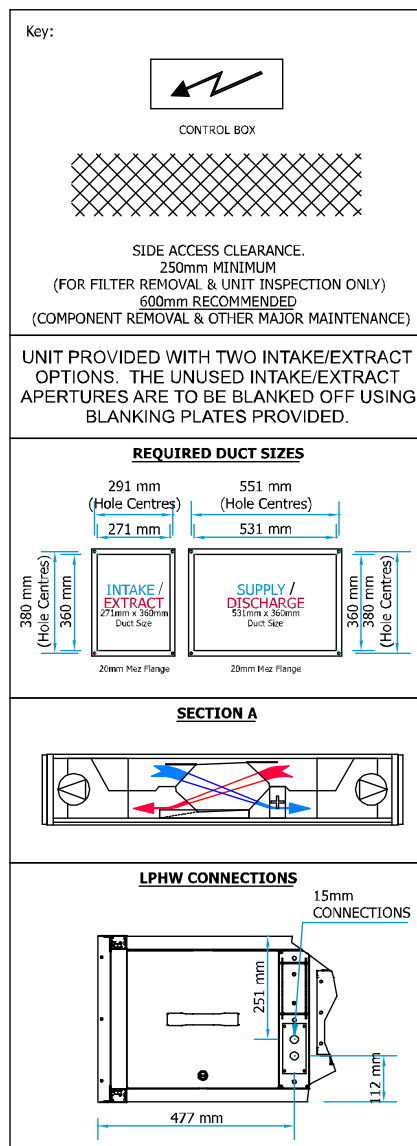
Fan Dimensions



A	B	C	D	E	F	G	H	I
1913	1262	405	1973	140	210	640	443	30
J	K	L	M	N	O	kg		
270	360	1461	531	1332	1020	298.0		

Length: Width: Height:
1913 1262 405

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus45-hl-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*****

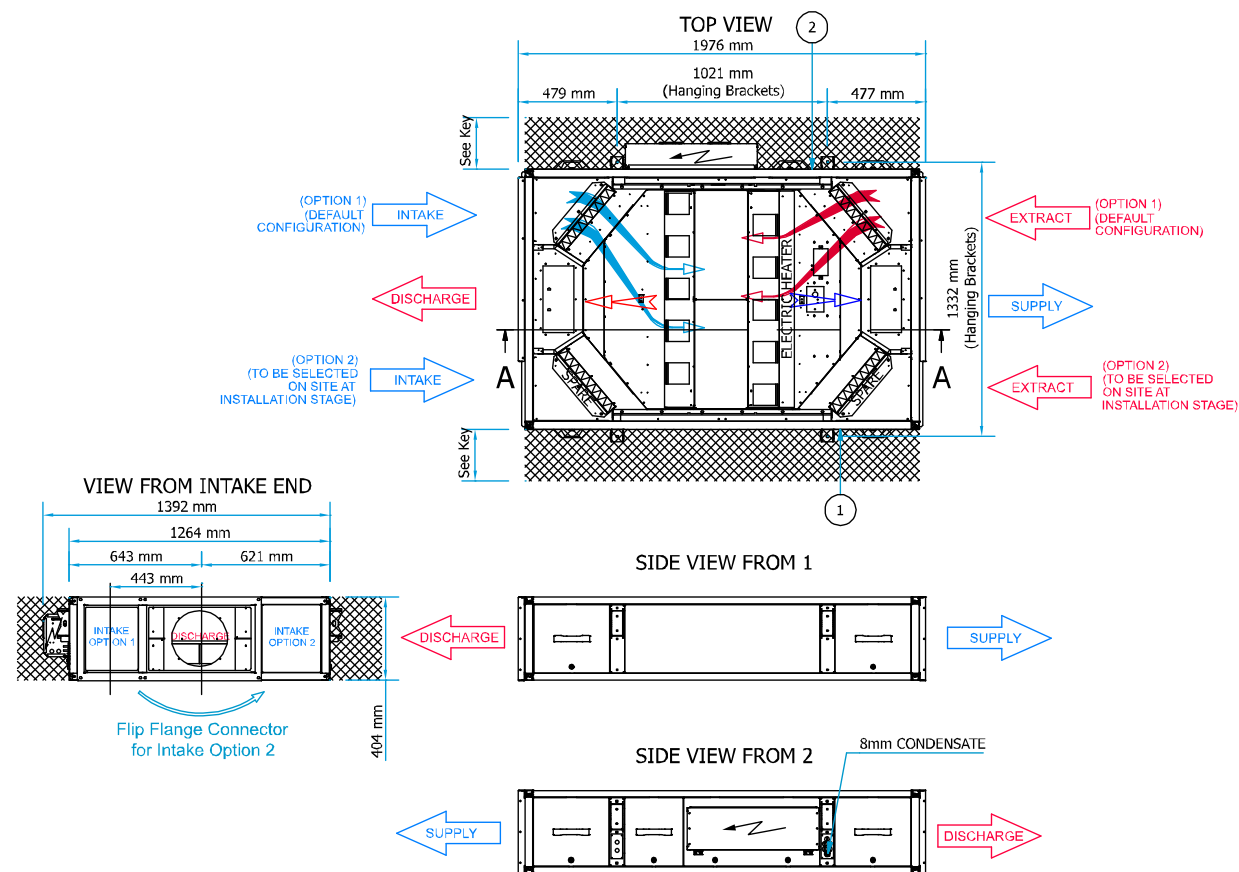
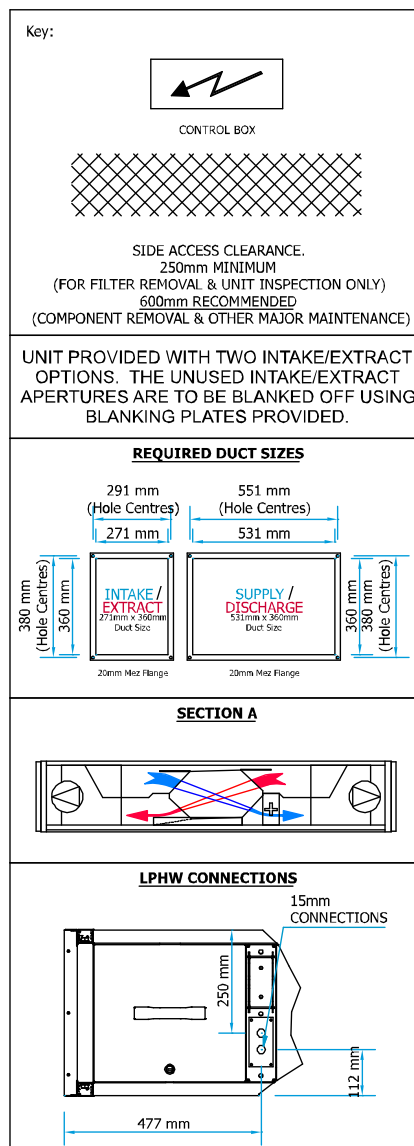
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Please Note: This drawing details the factory-standard unit ONLY (unless silencers are shown too). The total length or footprint may differ from that shown depending on the additional ancillaries offered on the quote or if the unit code ends in -QA*****

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Project Details

Location: Unit 6

Technical Data

XBC+

Fan Code: **XBC55HA-LH4-E-LS1S**
Installation Manual Links: 671948

Maximum Fan Speed: 2,400 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 45°C
Weight: 375 kg

Sound Data

Noise calculated speed controlled to required duty (100%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	72	65	61	47	45	43	40	28	35
Induct Intake	81	74	75	63	64	61	53	41	49
Induct Supply	85	80	84	71	72	70	66	61	58
Induct Discharge	86	81	84	71	72	71	66	63	58
Induct Extract	82	75	75	63	64	62	53	43	49
For 100% speed:	+0	+0	+0	+0	+0	+0	+0	+0	

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

XBC55-HS-MS10

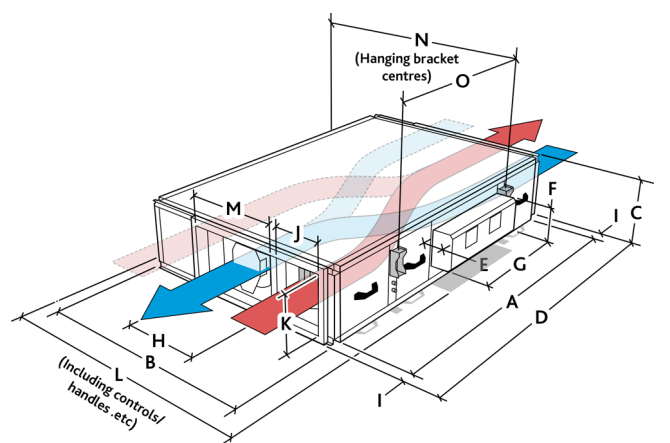
At all volumes -4 -10 -17 -19 -23 -18 -15 -11

XBC55-HE-MS10

At all volumes -3 -6 -12 -15 -15 -11 -6 -4

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

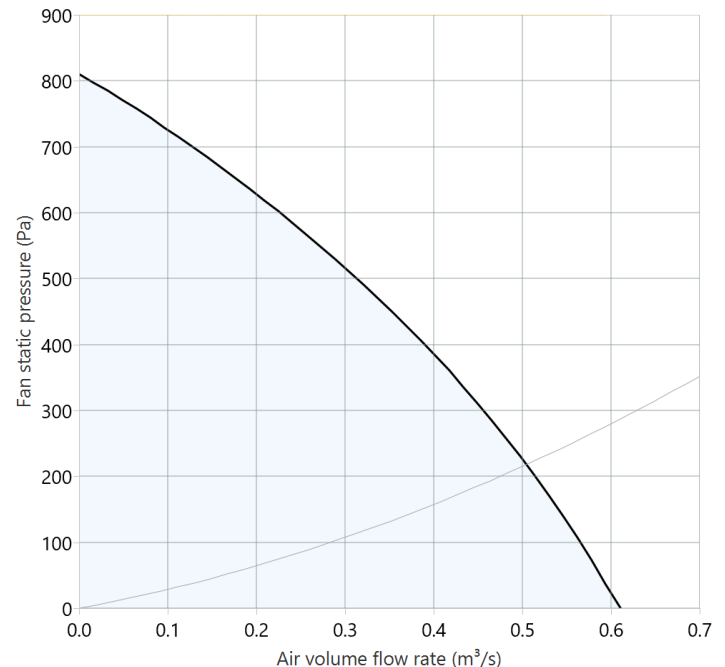


A	B	C	D	E	F	G	H	I
1900	1560	470	1960	140	210	640	535	30
J	K	L	M	N	O	kg		
397	430	1751	587	1632	1052	375.0		

Length: Width: Height:
1900 1560 470

Drawing is for dimensional purposes only. Dimensions in mm.

Performance Chart



Additional Notes

Please note the unit has been selected without any airflow rates or resistances. Please check the unit data sheets for suitability.

Selected Ancillaries

- 1 x ES-LCD Ecosmart LCD Touch Screen User Control (White)
- 1 x XBC55-F7 F7 panel filter (pressure drop for swapping G4 panel filter)
- 2 x XBC55-HS-MS10 Double-skinned Silencer, Supply or Discharge side, 1050mm length
- 2 x XBC55-HE-MS10 Double-skinned Silencer, Extract or Intake side, 1050mm length

XBC55-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Size: 1050 mm (L) 580 mm (W) 435 mm (H)
Weight: 79.0 kg

XBC55-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

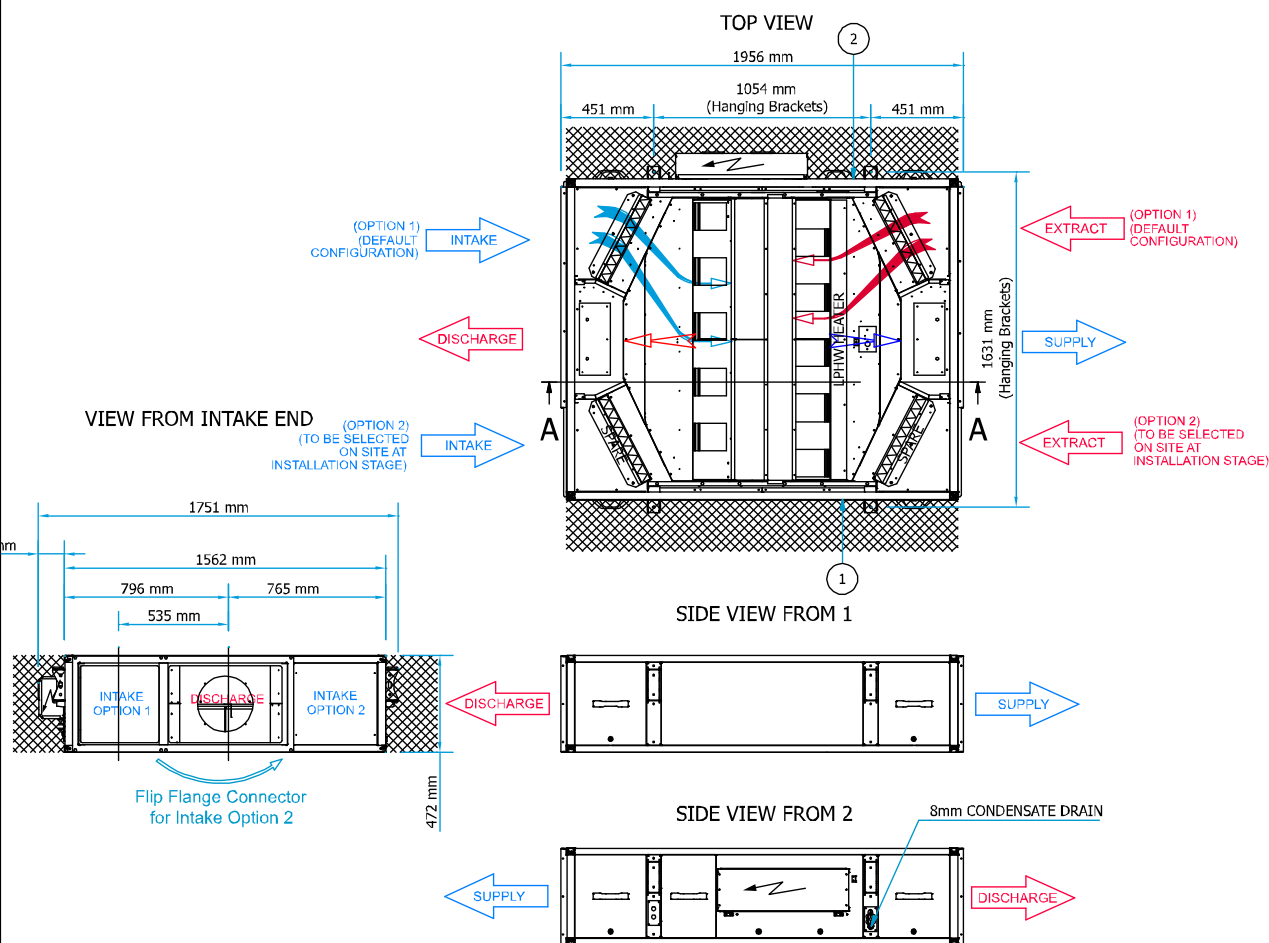
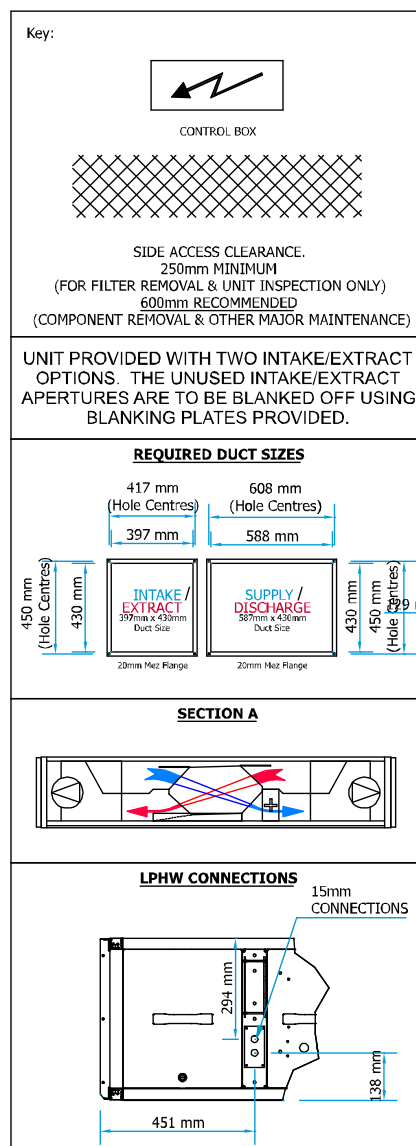
Size: 1050 mm (L) 410 mm (W) 435 mm (H)
Weight: 62.0 kg

Specification

XBC55HA-LH4-E-LS1S. 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). LPHW heater battery, valve and actuator. 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. 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.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus55-hl-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*****

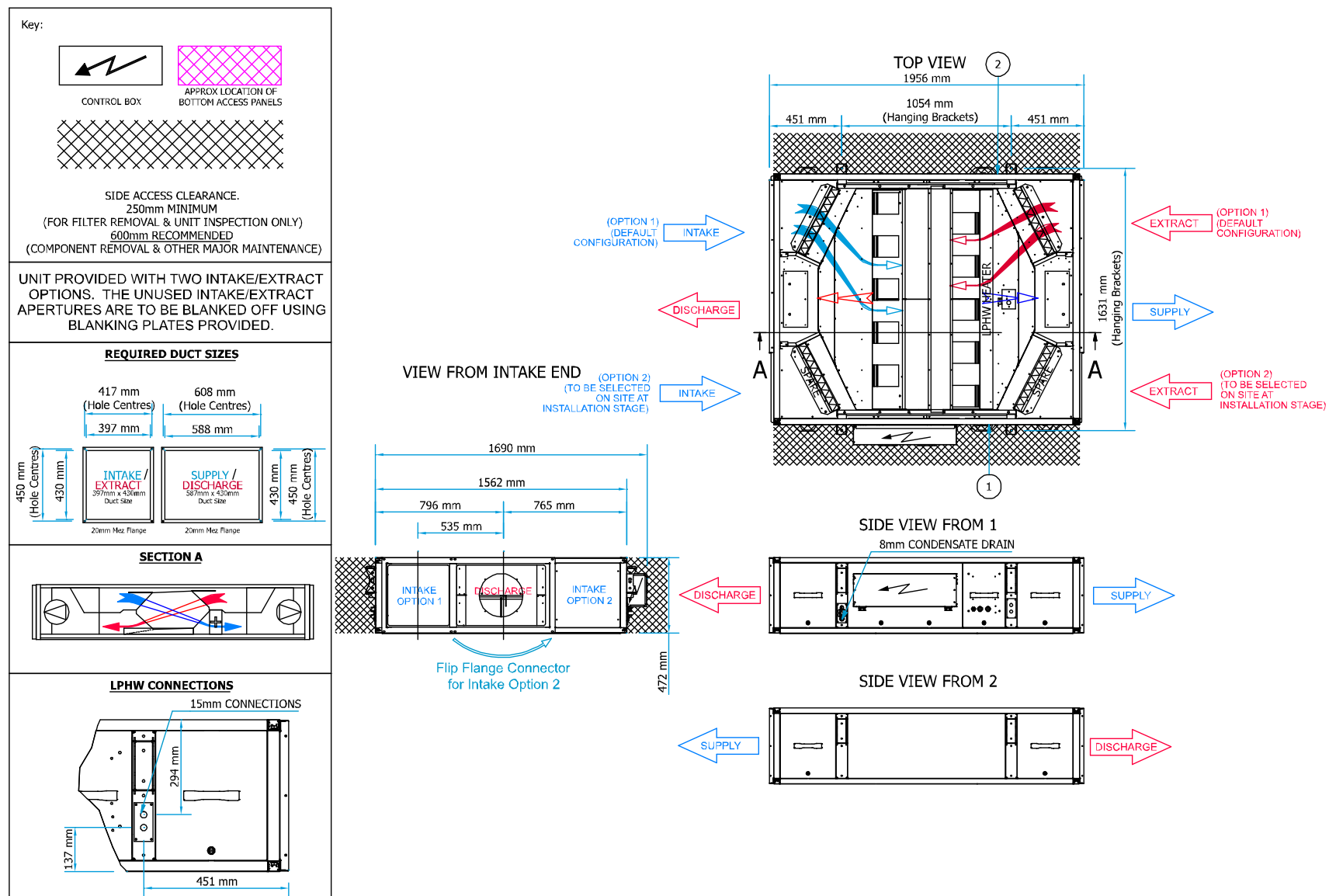
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You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus55-hl-r.dwg>

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*****

Please DO NOT sign this drawing to confirm handings.
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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 Details

Location: Unit 7

Technical Data

XBC+

Fan Code: **XBC15HA-LH4-E-LS1S**
Installation Manual Links: 671948

Required duty: 0.157 m³/s at 0 Pa
Addition for ancillaries: +43.48 Pa
Actual duty: 0.18 m³/s at 57 Pa
Actual at required flow: 0.157 m³/s at 181 Pa

When speed controlled to required duty (87.32%):

Motor Input Power: 0.236 kW
Specific Fan Power: 1.5 W/(l/s)

At full speed:

Motor Input Power: 0.355 kW
Specific Fan Power: 2.0 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 starting current (sc): 2.8 A

Max. operating temp: 60°C
Weight: 195 kg

Sound Data

Noise calculated speed controlled to required duty (87.32%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	58	54	39	40	38	34	31	20	23
Induct Intake	67	57	52	53	59	52	44	40	39
Induct Supply	72	69	62	63	65	61	56	54	47
Induct Discharge	72	70	62	64	65	62	57	55	47
Induct Extract	66	56	52	52	58	52	42	38	38
For 100% speed:	+3	+3	+3	+3	+3	+3	+3	+3	

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

XBC15-HE-MS10

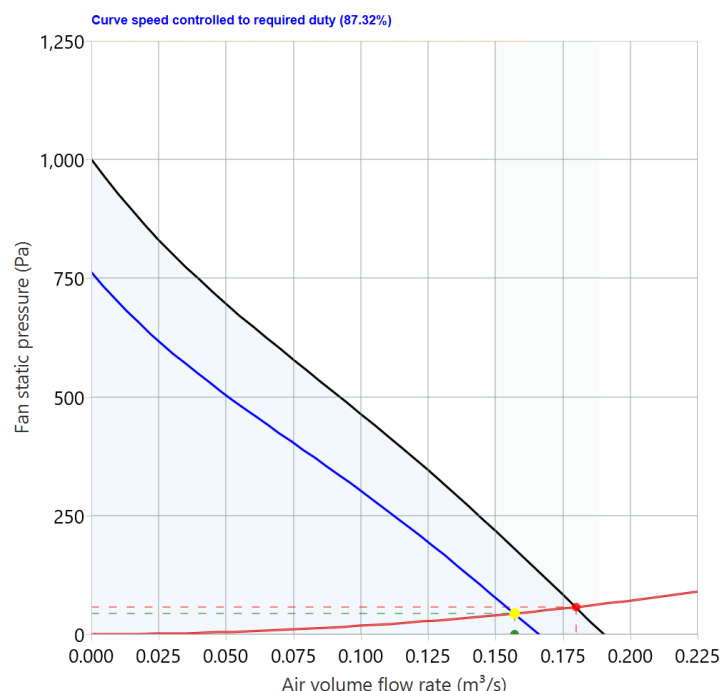
At all volumes -2 -2 -3 -10 -17 -10 -6 -3

XBC15-HS-MS10

At all volumes -5 -11 -12 -19 -27 -28 -24 -19

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, only the Standard G4 filter has been offered on this unit as the unit cannot achieve the design airflow with the added resistance of an integral F7 filter.

Selected Ancillaries

1 x ES-LCD	Ecosmart LCD Touch Screen User Control (White)
2 x XBC15-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length
2 x XBC15-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length

XBC15-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 15.33 Pa @ 0.16 m³/s
Size: 1050 mm (L) 250 mm (W) 225 mm (H)
Weight: 37.0 kg

XBC15-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 28.15 Pa @ 0.16 m³/s
Size: 1050 mm (L) 340 mm (W) 225 mm (H)
Weight: 49.0 kg

Specification

XBC15HA-LH4-E-LS1S. 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). LPHW heater battery, valve and actuator. 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. 5 year warranty (UK and Ireland only)

ES-LCD

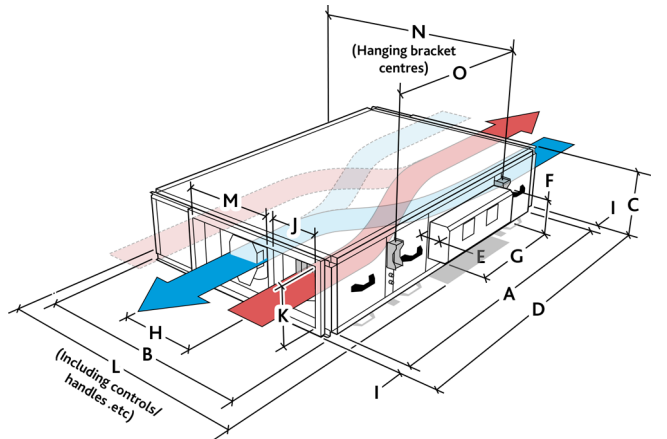
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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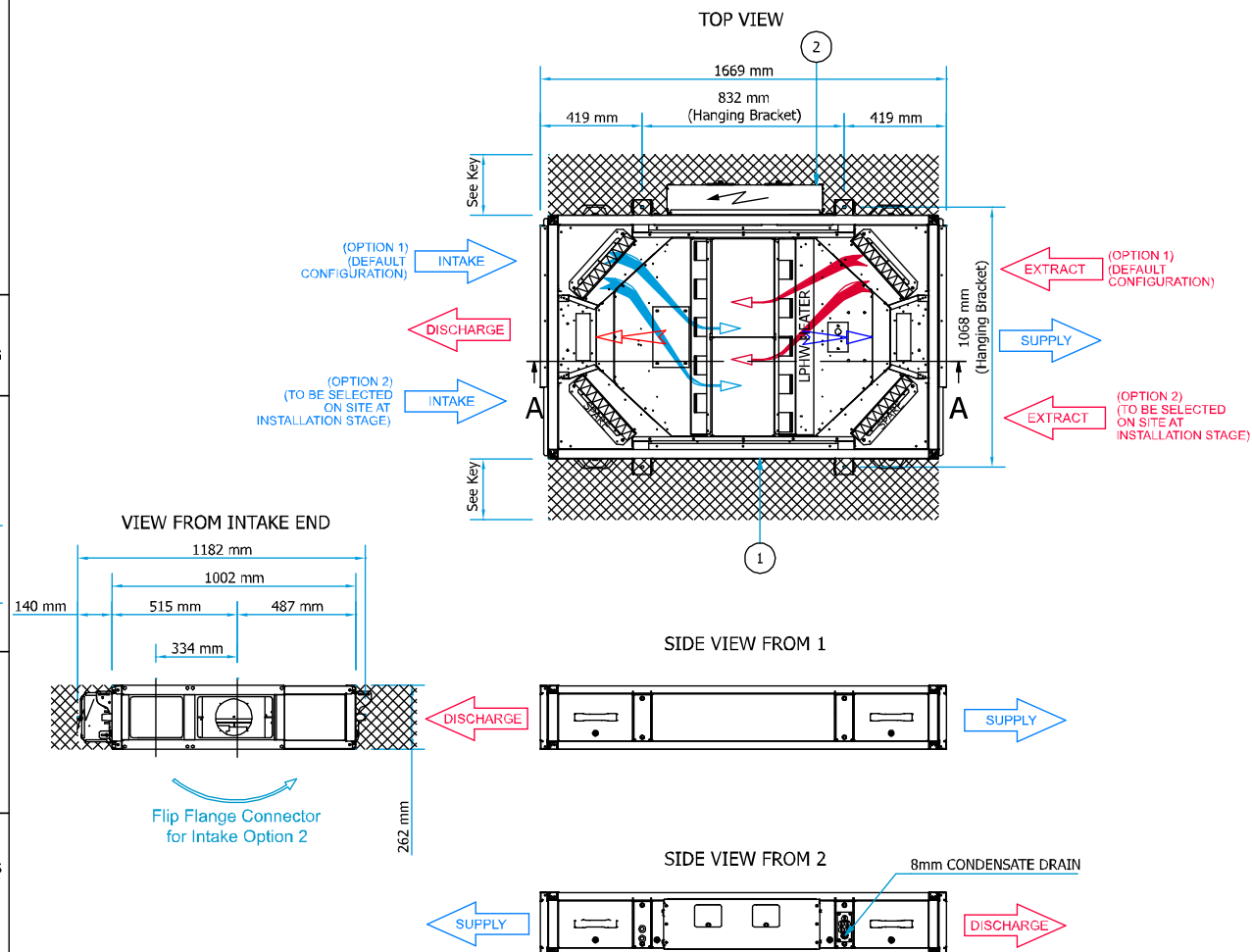
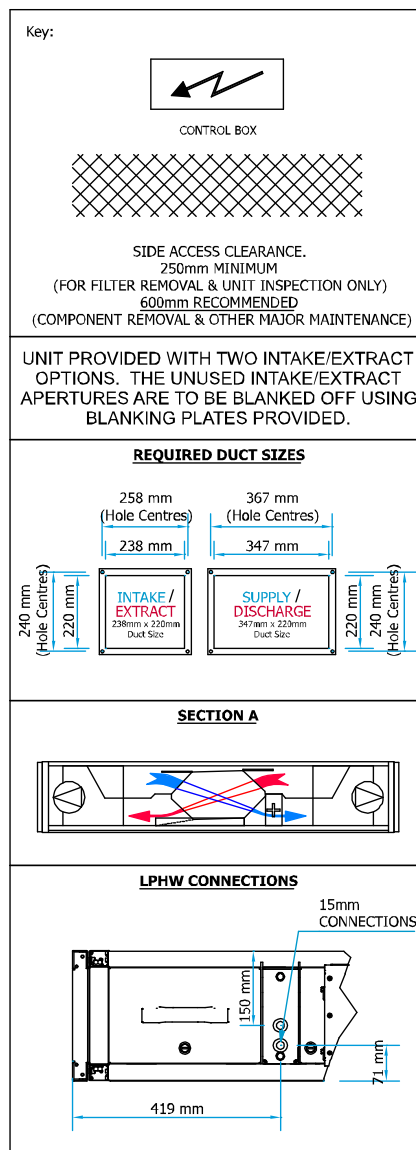
Fan Dimensions



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

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus15-hl-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*****

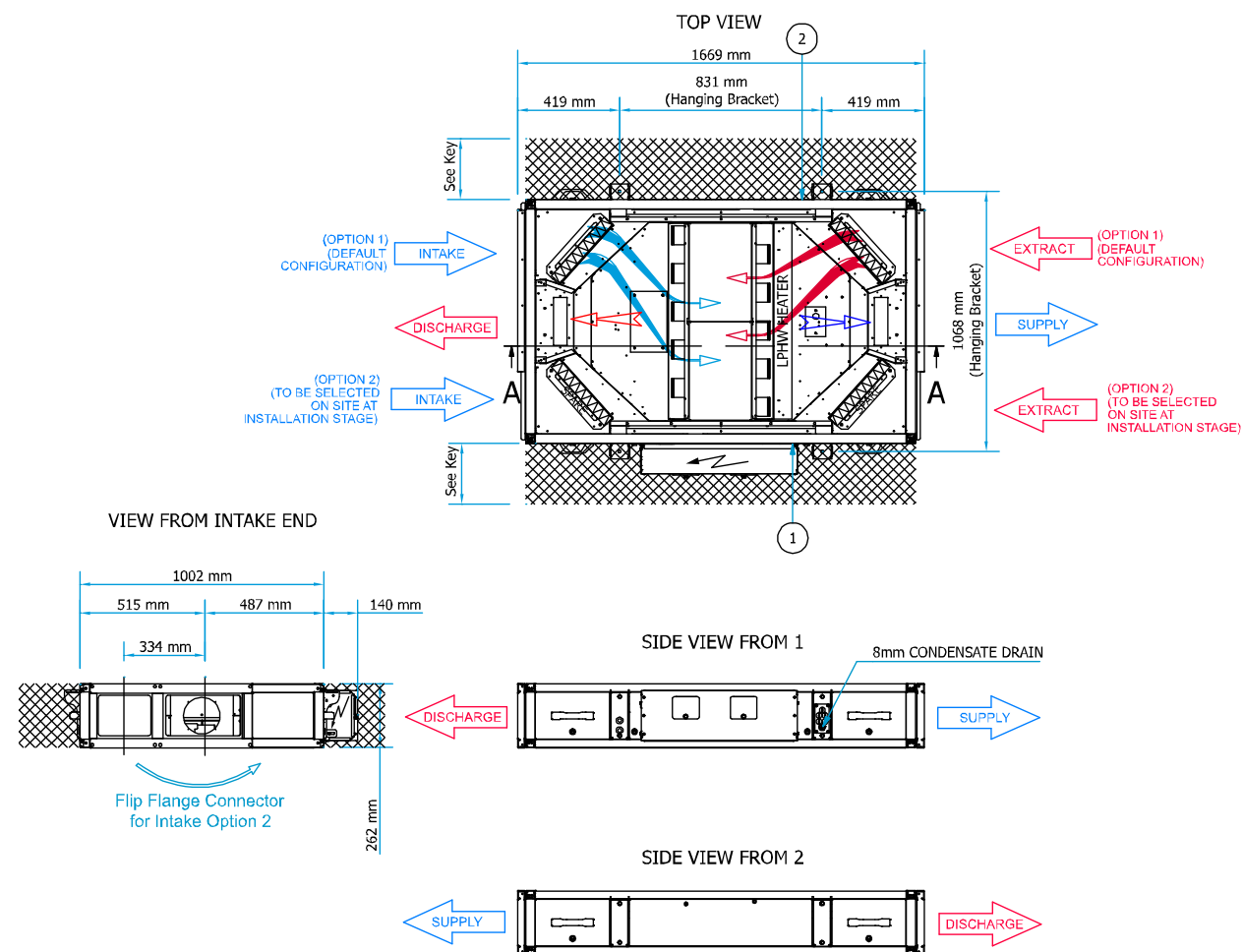
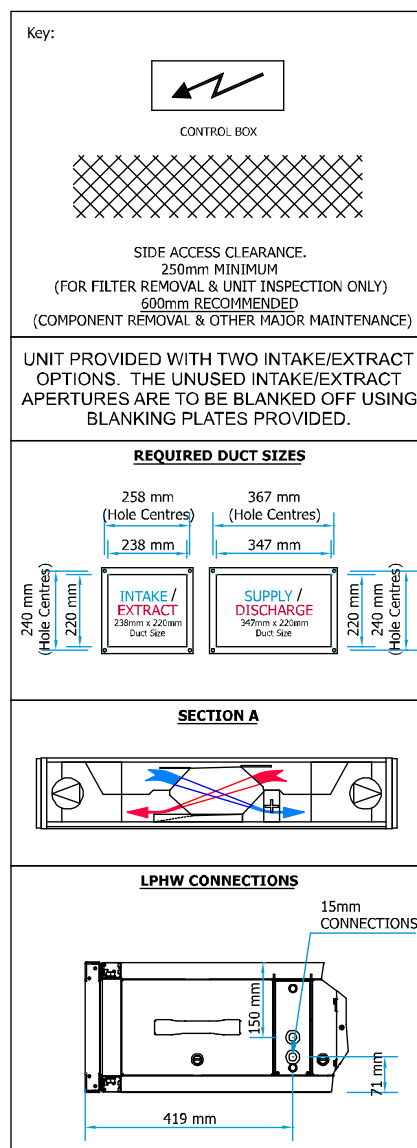
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You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus15-hl-r.dwg>

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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Project Details

Location: Unit 8

Technical Data

XBC+

Fan Code: **XBC15HA-LH4-E-LS1S**
Installation Manual Links: 671948

Required duty: 0.11 m³/s at 0 Pa
Addition for ancillaries: +21.34 Pa
Actual duty: 0.18 m³/s at 57 Pa
Actual at required flow: 0.11 m³/s at 417 Pa

When speed controlled to required duty (61.18%):

Motor Input Power: 0.081 kW
Specific Fan Power: 0.7 W/(l/s)

At full speed:

Motor Input Power: 0.355 kW
Specific Fan Power: 2.0 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 starting current (sc): 2.8 A

Max. operating temp: 60°C
Weight: 195 kg

Sound Data

Noise calculated speed controlled to required duty (61.18%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	50	46	31	32	30	26	23	<16	<16
Induct Intake	59	49	44	45	51	44	36	32	32
Induct Supply	64	61	54	55	57	53	48	46	39
Induct Discharge	64	62	54	56	57	54	49	47	40
Induct Extract	58	48	44	44	50	44	34	30	31
For 100% speed:	+11	+11	+11	+11	+11	+11	+11	+11	

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

XBC15-HE-MS10

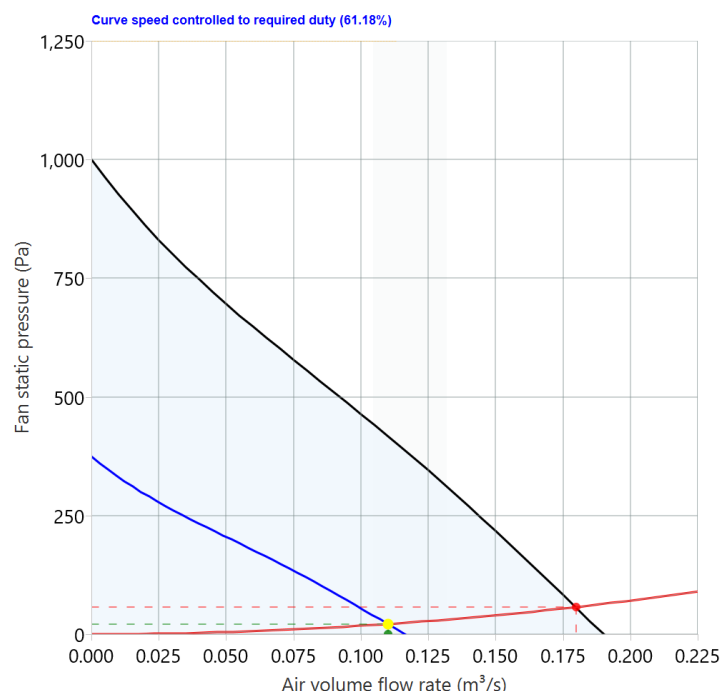
At all volumes -2 -2 -3 -10 -17 -10 -6 -3

XBC15-HS-MS10

At all volumes -5 -11 -12 -19 -27 -28 -24 -19

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 ES-LCD Ecosmart LCD Touch Screen User Control (White)
- 2 x XBC15-HE-MS10 Double-skinned Silencer, Extract or Intake side, 1050mm length
- 2 x XBC15-HS-MS10 Double-skinned Silencer, Supply or Discharge side, 1050mm length

XBC15-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 7.53 Pa @ 0.11 m³/s
Size: 1050 mm (L) 250 mm (W) 225 mm (H)
Weight: 37.0 kg

XBC15-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 13.82 Pa @ 0.11 m³/s
Size: 1050 mm (L) 340 mm (W) 225 mm (H)
Weight: 49.0 kg

Specification

XBC15HA-LH4-E-LS1S. 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). LPHW heater battery, valve and actuator. 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. 5 year warranty (UK and Ireland only)

ES-LCD

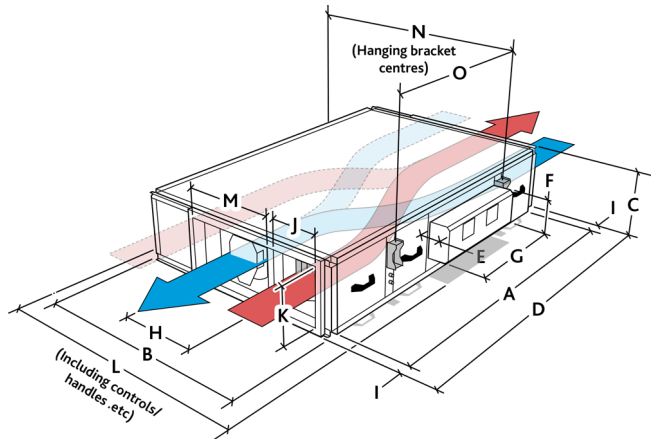
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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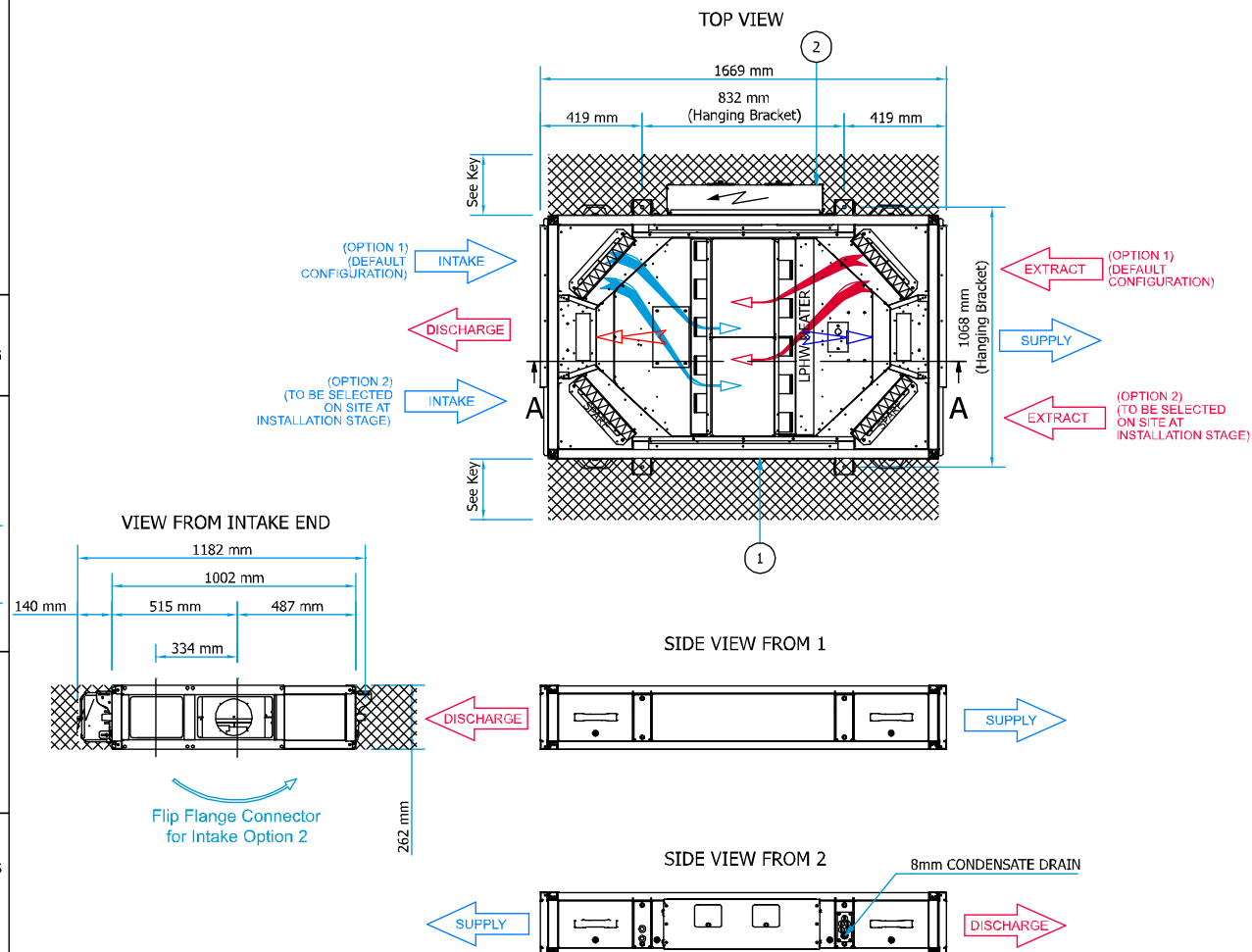
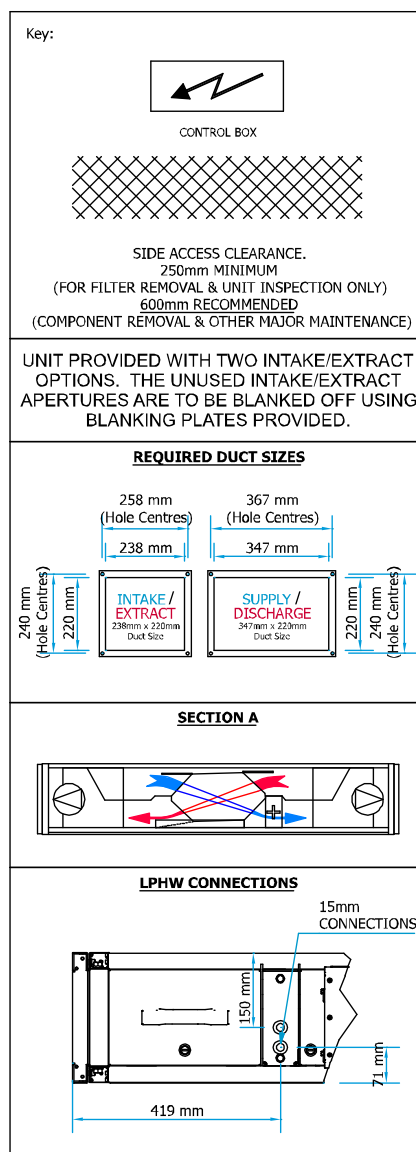
Fan Dimensions



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

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus15-hl-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*****

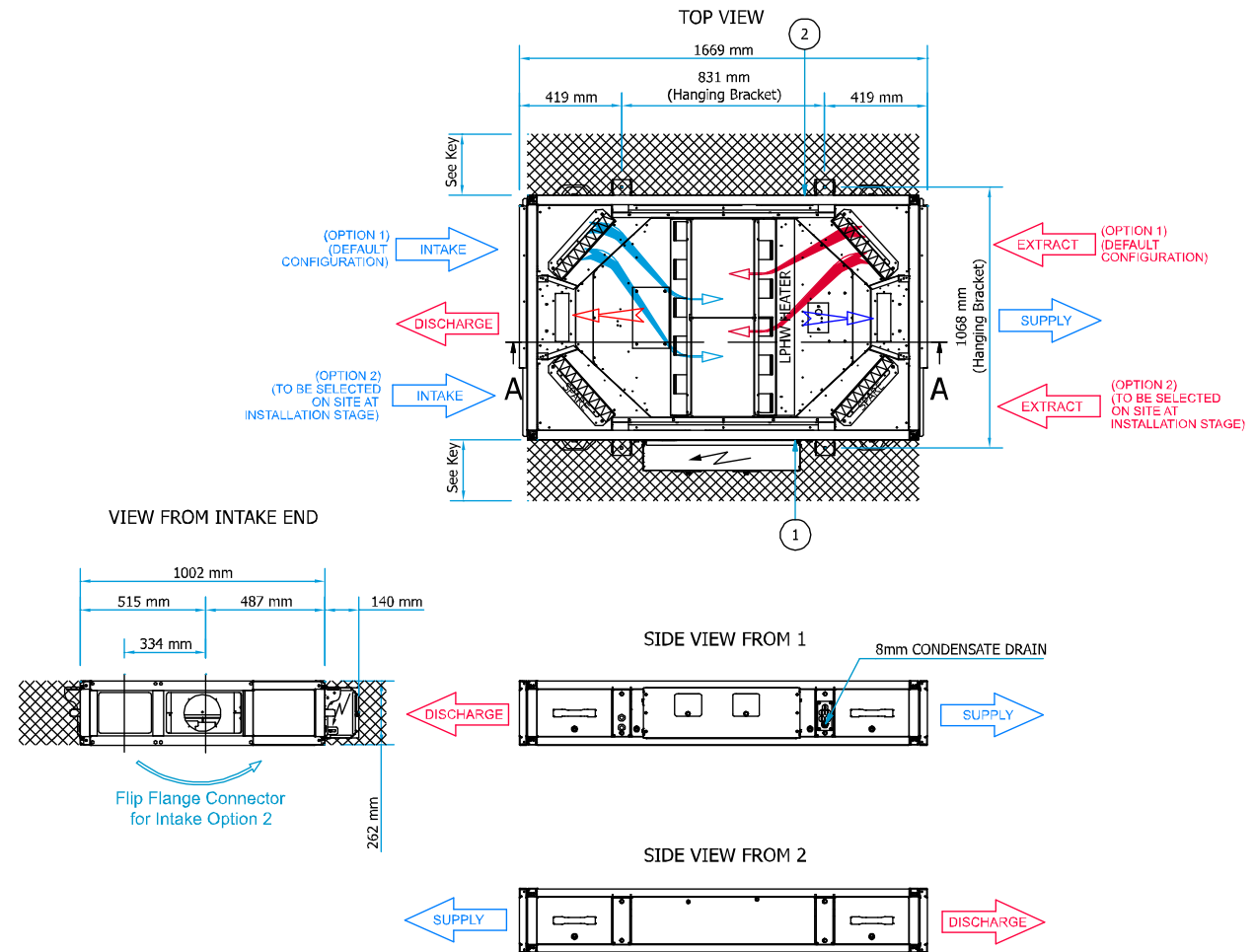
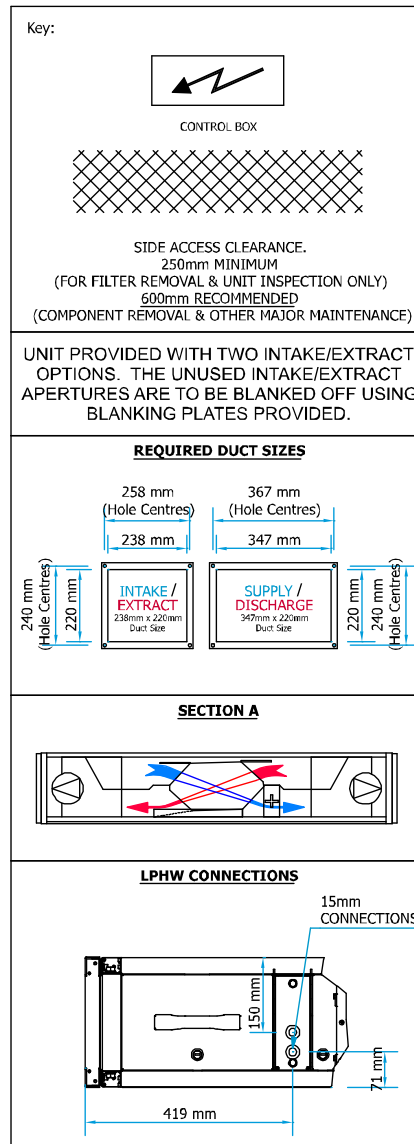
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You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus15-hl-r.dwg>

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SUMMARY FAN DATA SHEET

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Project Details

Location: Unit 9

Technical Data

XBC+

Fan Code: **XBC55HA-LH4-E-RS1S**
Installation Manual Links: 671948

Required duty: 0.36 m³/s at 0 Pa
Addition for ancillaries: +24.88 Pa
Actual duty: 0.582 m³/s at 65 Pa
Actual at required flow: 0.36 m³/s at 441 Pa

When speed controlled to required duty (61.9%):

Motor Input Power: 0.224 kW
Specific Fan Power: 0.6 W/(l/s)

At full speed:

Motor Input Power: 0.945 kW
Specific Fan Power: 1.6 W/(l/s)

Maximum Fan Speed: 2,400 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 45°C
Weight: 375 kg

Sound Data

Noise calculated speed controlled to required duty (61.9%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	63	57	47	34	33	30	24	<16	24
Induct Intake	72	66	61	50	52	48	37	28	37
Induct Supply	76	72	70	58	60	57	50	48	45
Induct Discharge	77	73	70	58	60	58	50	50	45
Induct Extract	73	67	61	50	52	49	37	30	37
For 100% speed:	+9	+8	+14	+13	+12	+13	+16	+13	

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

XBC55-HE-MS10

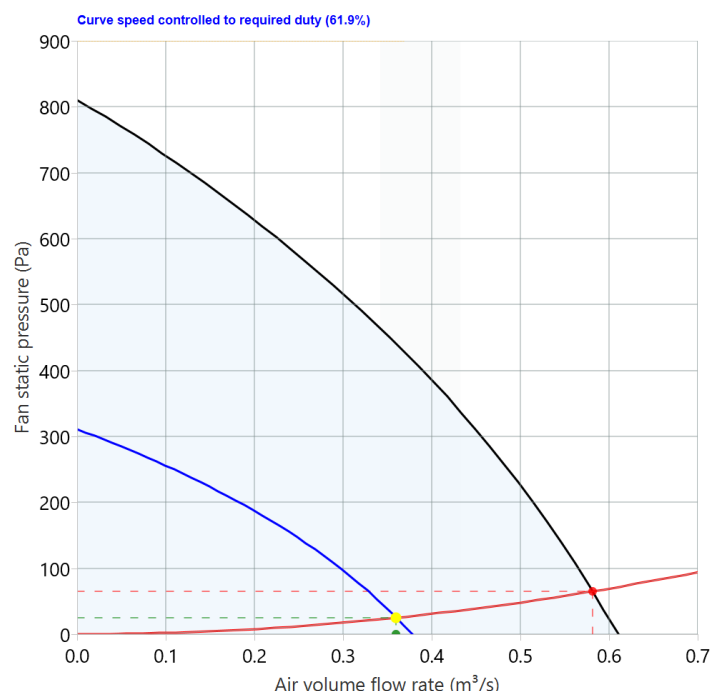
At all volumes -3 -6 -12 -15 -15 -11 -6 -4

XBC55-HS-MS10

At all volumes -4 -10 -17 -19 -23 -18 -15 -11

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 ES-LCD	Ecosmart LCD Touch Screen User Control (White)
2 x XBC55-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length
2 x XBC55-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length

XBC55-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 10.89 Pa @ 0.36 m³/s
Size: 1050 mm (L) 410 mm (W) 435 mm (H)
Weight: 62.0 kg

XBC55-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 14 Pa @ 0.36 m³/s
Size: 1050 mm (L) 580 mm (W) 435 mm (H)
Weight: 79.0 kg

Specification

XBC55HA-LH4-E-RS1S. 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). LPHW heater battery, valve and actuator. 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 RIGHT HANDED. 5 year warranty (UK and Ireland only)

ES-LCD

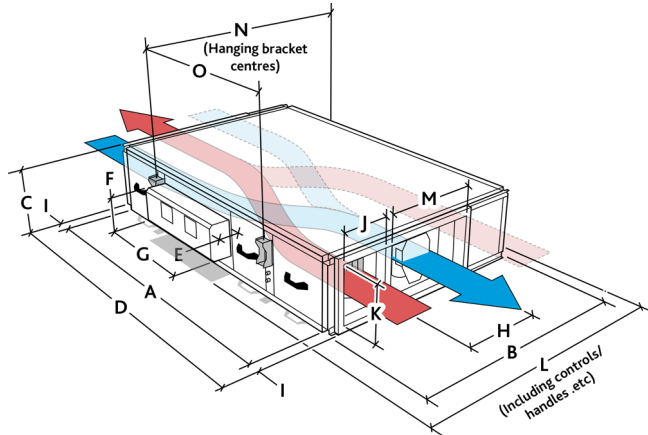
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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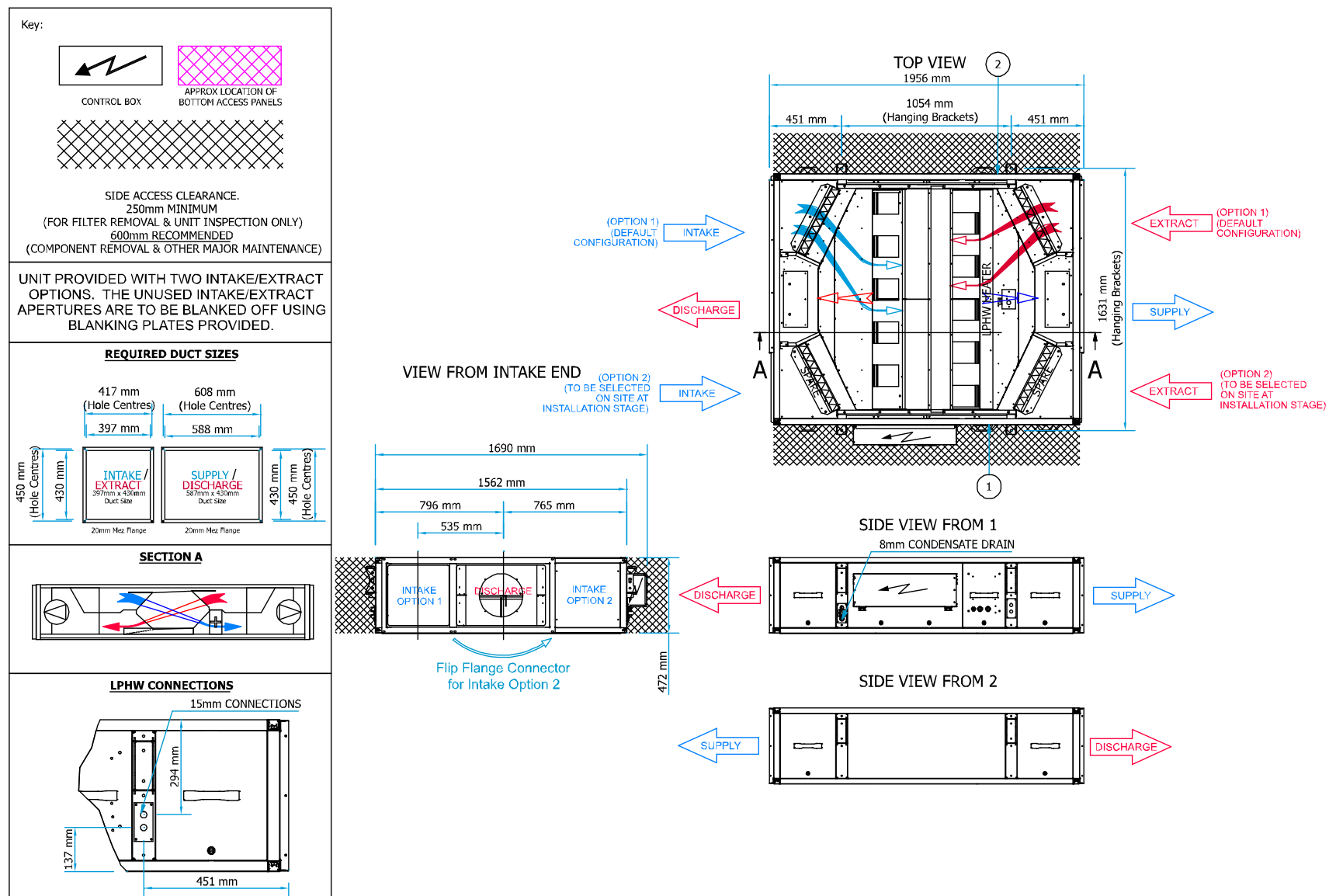
Fan Dimensions



A	B	C	D	E	F	G	H	I
1900	1560	470	1960	140	210	640	535	30
J	K	L	M	N	O	kg		
397	430	1751	587	1632	1052	375.0		

Length: Width: Height:
1900 1560 470

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus55-hl-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*****

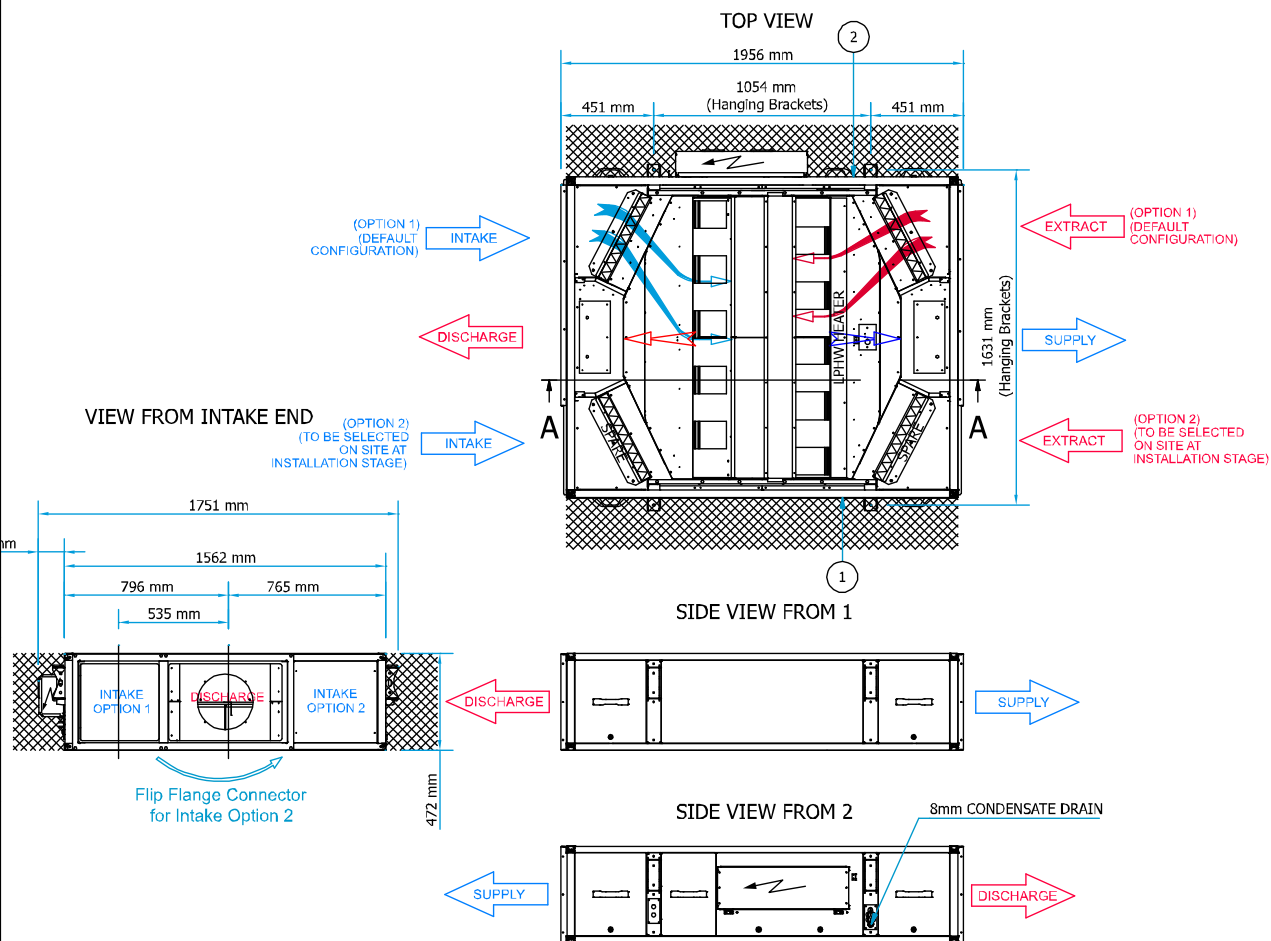
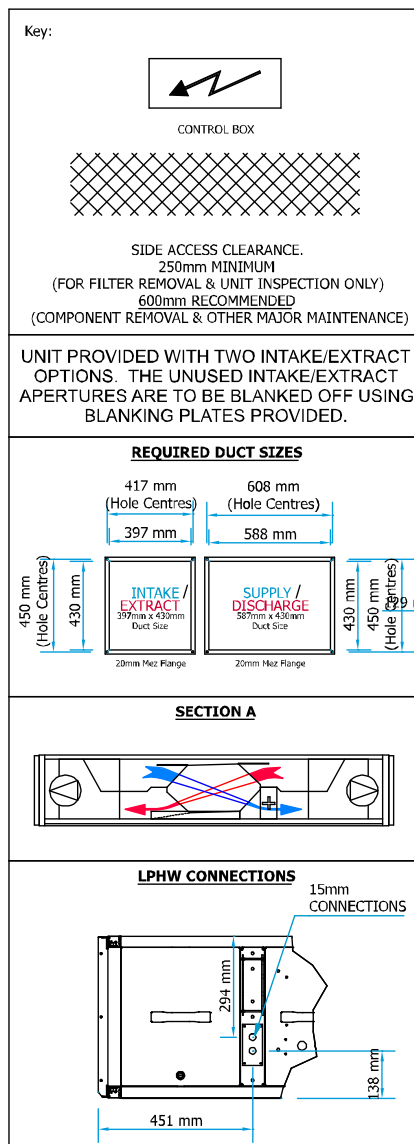
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Please Note: This drawing details the factory-standard unit ONLY (unless silencers are shown too). The total length or footprint may differ from that shown depending on the additional ancillaries offered on the quote or if the unit code ends in -QA*****

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Project Details

Location: Unit 10

Technical Data

XBC+

Fan Code: **XBC25HA-LH4-E-RS1S**
Installation Manual Links: 671948

Required duty: 0.223 m³/s at 0 Pa
Addition for ancillaries: +37.05 Pa
Actual duty: 0.383 m³/s at 109 Pa
Actual at required flow: 0.223 m³/s at 686 Pa

When speed controlled to required duty (58.22%):

Motor Input Power: **0.196 kW**
Specific Fan Power: **0.9 W/(l/s)**

At full speed:

Motor Input Power: 0.995 kW
Specific Fan Power: 2.6 W/(l/s)

Maximum Fan Speed: 3,740 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 60°C
Weight: 242 kg

Sound Data

Noise calculated speed controlled to required duty (58.22%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	60	59	46	49	36	35	35	27	28
Induct Intake	68	62	60	62	57	53	45	44	41
Induct Supply	73	74	69	73	63	63	59	61	51
Induct Discharge	74	75	69	72	63	63	61	62	51
Induct Extract	67	61	59	62	56	53	45	45	41
For 100% speed:	+12	+12	+12	+12	+12	+12	+12	+12	

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

XBC25-HS-MS10

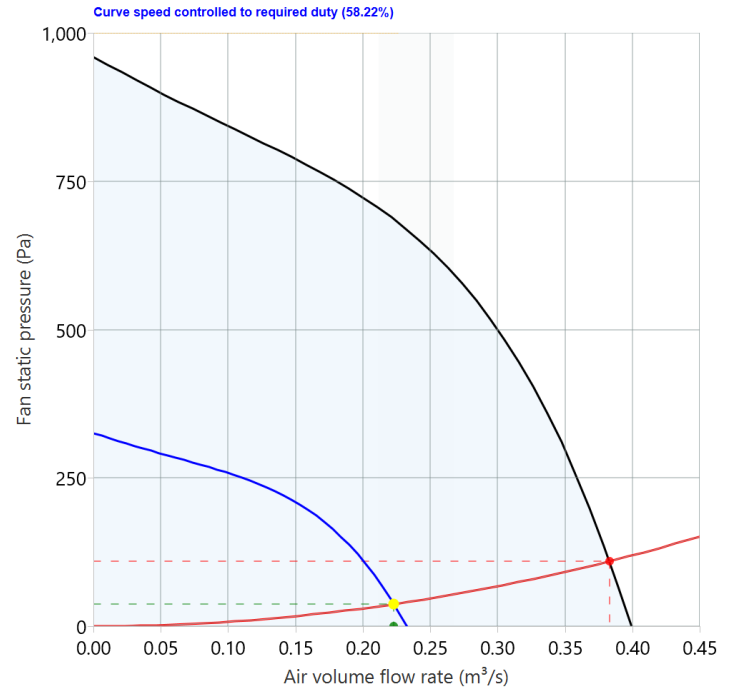
At all volumes -5 -8 -15 -30 -41 -31 -21 -16

XBC25-HE-MS10

At all volumes -4 -10 -22 -26 -15 -10 -8

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 ES-LCD	Ecosmart LCD Touch Screen User Control (White)
2 x XBC25-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length
2 x XBC25-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length

XBC25-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 23.27 Pa @ 0.22 m³/s
Size: 1050 mm (L) 481 mm (W) 305 mm (H)
Weight: 59.0 kg

XBC25-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 13.77 Pa @ 0.22 m³/s
Size: 1050 mm (L) 262 mm (W) 305 mm (H)
Weight: 44.0 kg

Specification

XBC25HA-LH4-E-RS1S. 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). LPHW heater battery, valve and actuator. 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 RIGHT HANDED. 5 year warranty (UK and Ireland only)

ES-LCD

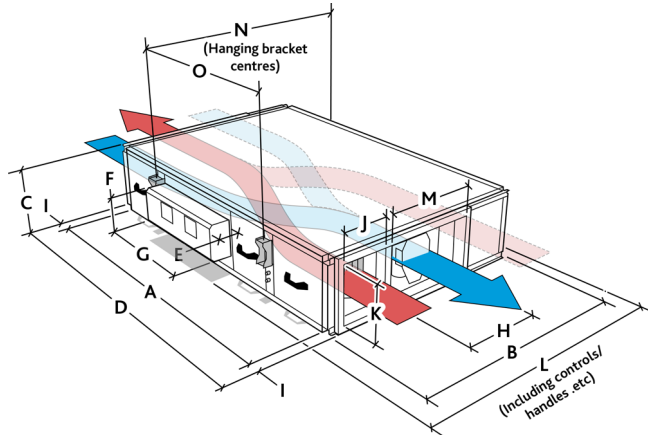
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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 05 Aug 2021 09:00 using software version 4.7.4022.0; by user matthewl

Fan Dimensions

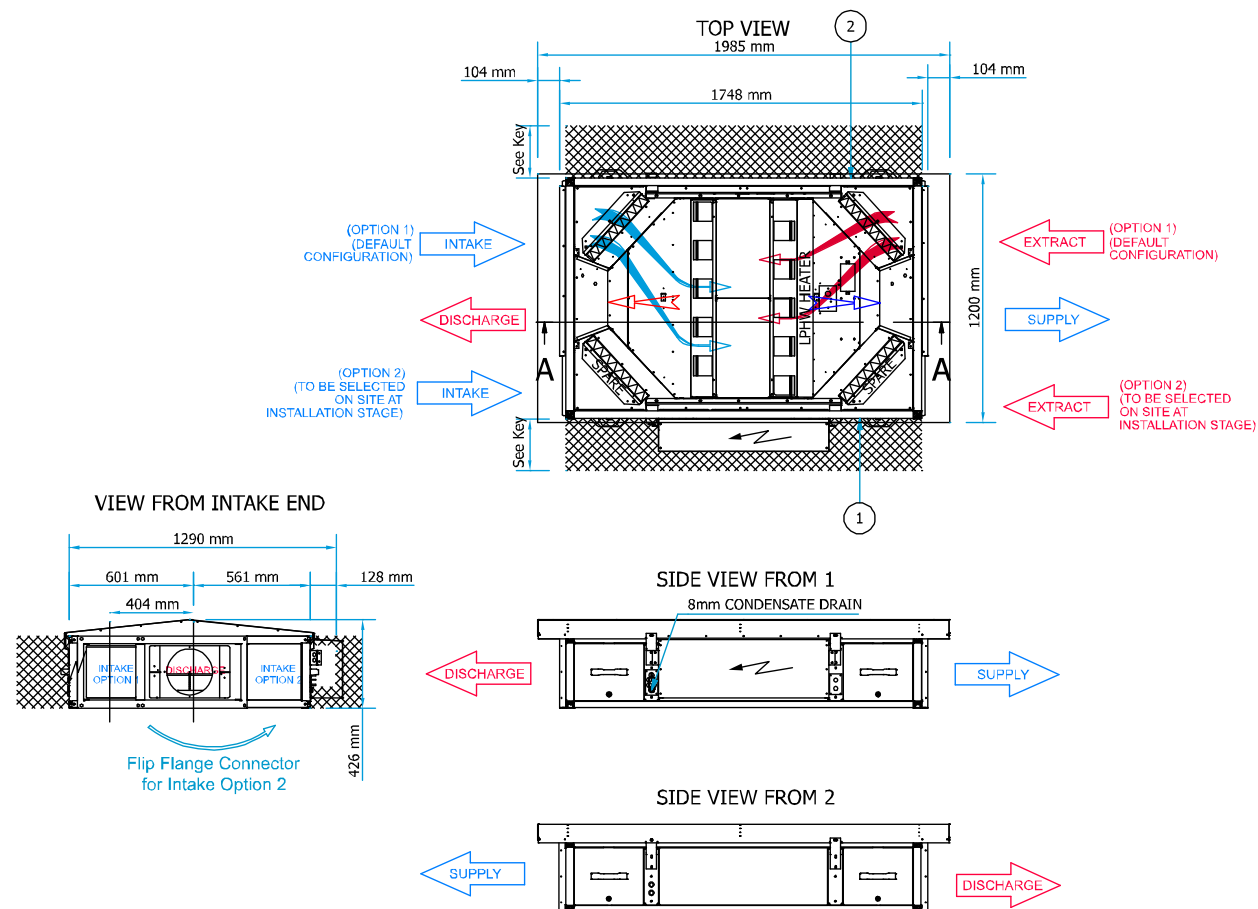
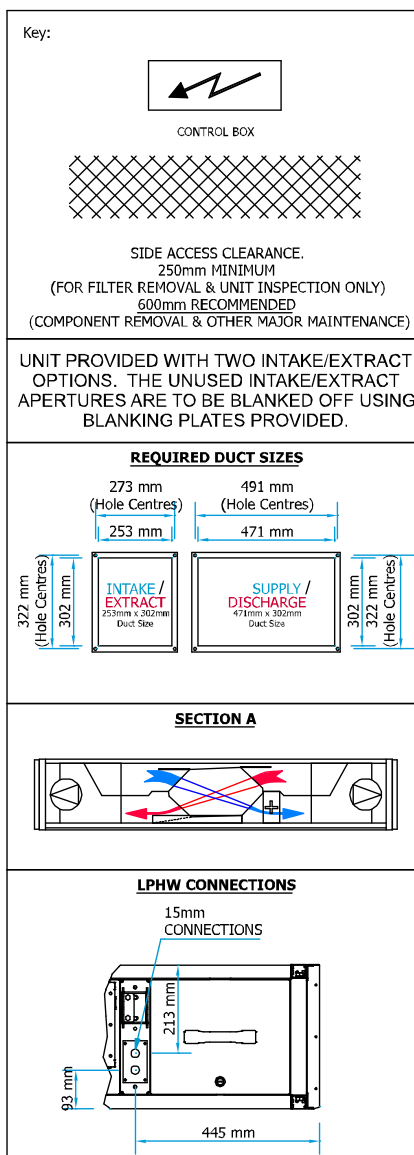


A	B	C	D	E	F	G	H	I
1713	1160	346	1773	140	210	640	413	30
J	K	L	M	N	O	kg		
252	302	1350	471	1232	884	242.0		

Length: Width: Height:

1713 1160 346

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus25-hl-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*****

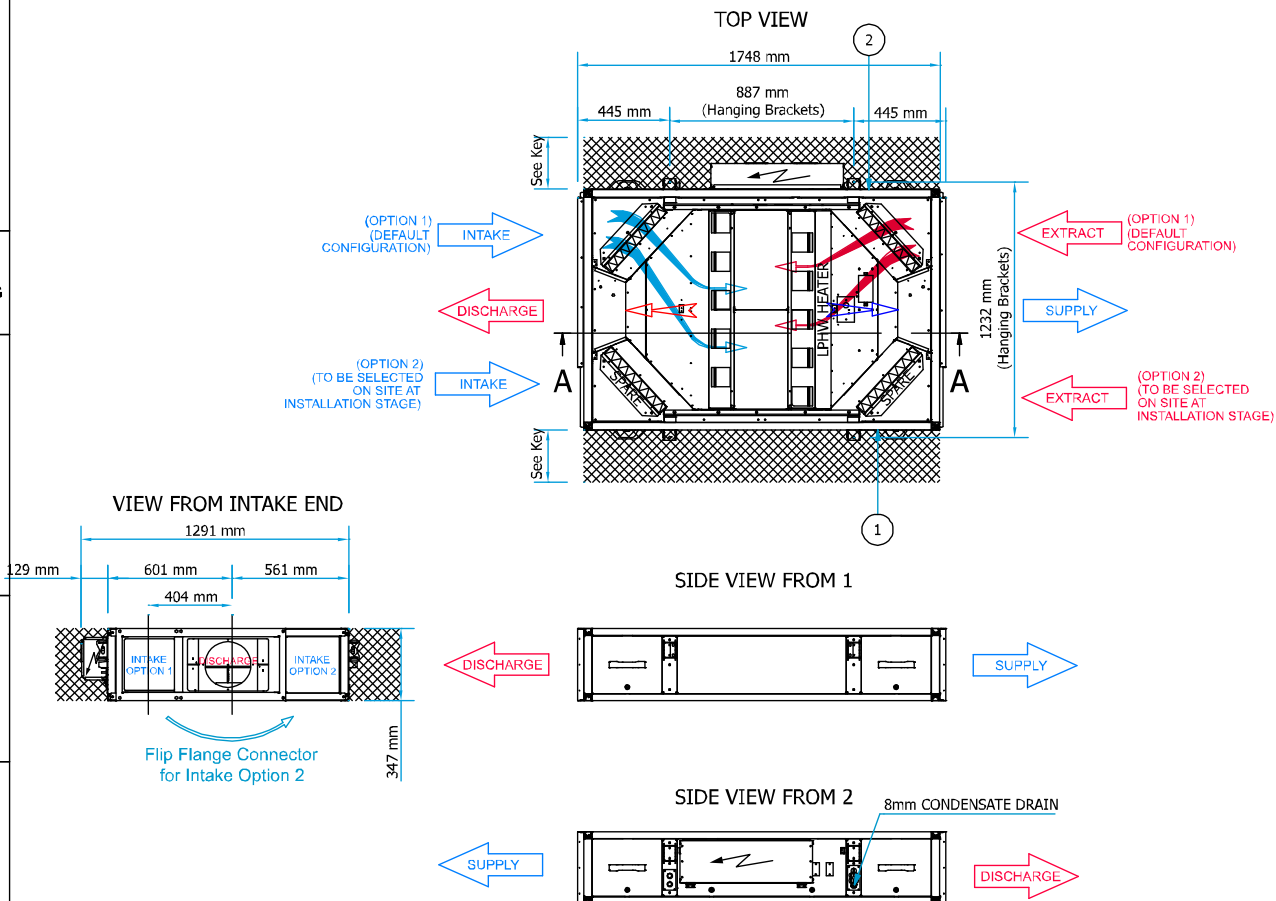
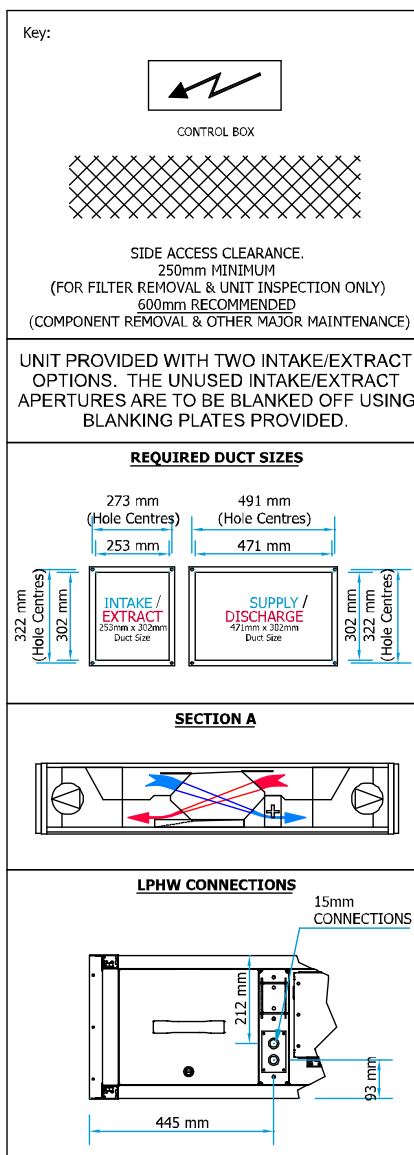
Please DO NOT sign this drawing to confirm handings.
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SUMMARY FAN DATA SHEET

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

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This data sheet produced on 05 Aug 2021 09:00 using software version 4.7.4022.0; by user matthewl

Project Details

Location: Unit 11

Technical Data

XBC+

Fan Code: **XBC45HA-LH4-E-RS1S**
Installation Manual Links: 671948

Required duty: 0.378 m³/s at 0 Pa
Addition for ancillaries: +40.72 Pa
Actual duty: 0.499 m³/s at 71 Pa
Actual at required flow: 0.378 m³/s at 318 Pa

When speed controlled to required duty (75.74%):

Motor Input Power: 0.413 kW
Specific Fan Power: 1.1 W/(l/s)

At full speed:

Motor Input Power: 0.95 kW
Specific Fan Power: 1.9 W/(l/s)

Maximum Fan Speed: 2,400 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 1 kW
Motor current (flc): 5.1 A
Motor starting current (sc): 5.1 A

Max. operating temp: 45°C
Weight: 298 kg

Sound Data

Noise calculated speed controlled to required duty (75.74%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	67	58	55	40	38	37	33	22	29
Induct Intake	76	68	68	57	57	55	47	38	43
Induct Supply	80	73	78	64	65	64	59	55	52
Induct Discharge	81	74	78	64	65	65	59	57	52
Induct Extract	77	68	69	56	57	56	46	37	44
For 100% speed:	+7	+7	+7	+7	+7	+7	+7	+7	

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

XBC45-HS-MS10

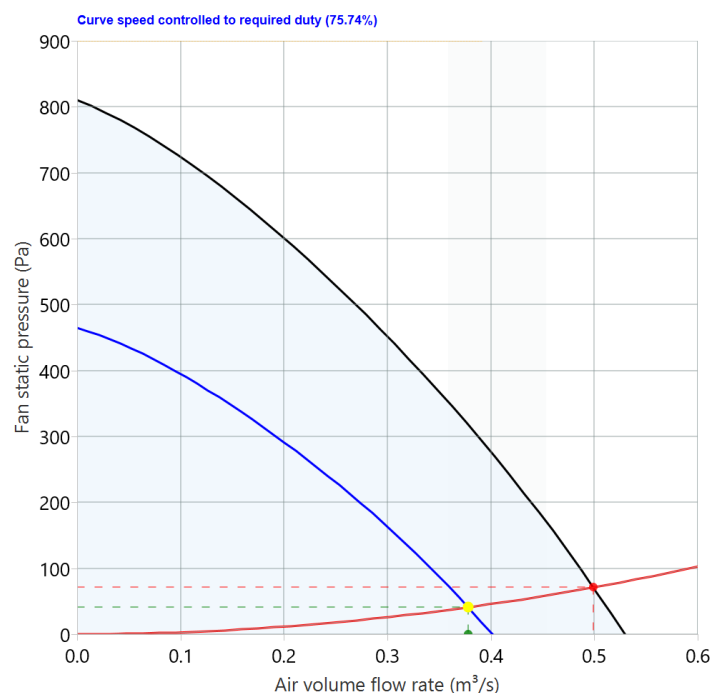
At all volumes -5 -9 -16 -13 -11 -8 -7 -6

XBC45-HE-MS10

At all volumes -3 -5 -11 -13 -15 -11 -6 -4

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Performance Chart



Additional Notes

Selected Ancillaries

1 x ES-LCD	Ecosmart LCD Touch Screen User Control (White)
2 x XBC45-HS-MS10	Double-skinned Silencer, Supply or Discharge side, 1050mm length
2 x XBC45-HE-MS10	Double-skinned Silencer, Extract or Intake side, 1050mm length

XBC45-HS-MS10 - Double-skinned Silencer, Supply or Discharge side, 1050mm length

Resistance at required duty 11.43 Pa @ 0.38 m³/s
Size: 1050 mm (L) 525 mm (W) 365 mm (H)
Weight: 69.0 kg

XBC45-HE-MS10 - Double-skinned Silencer, Extract or Intake side, 1050mm length

Resistance at required duty 29.29 Pa @ 0.38 m³/s
Size: 1050 mm (L) 280 mm (W) 365 mm (H)
Weight: 49.0 kg

Specification

XBC45HA-LH4-E-RS1S. 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). LPHW heater battery, valve and actuator. 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 RIGHT HANDED. 5 year warranty (UK and Ireland only)

ES-LCD

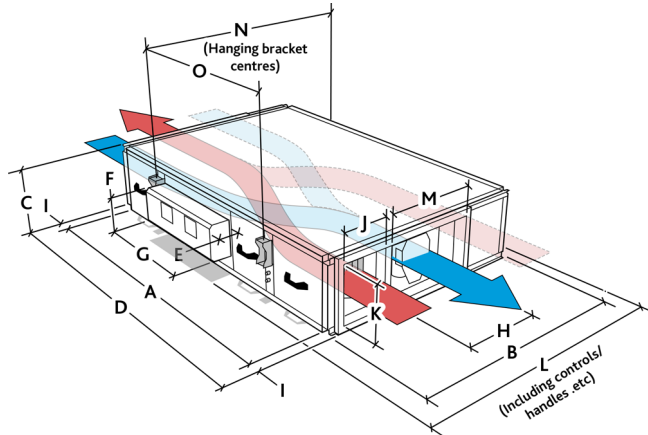
LCD touch screen ventilation user control panel in white compatible with Ecosmart system. Control has built in time clock. Supplied with pre-plugged 10m length of communication cable.

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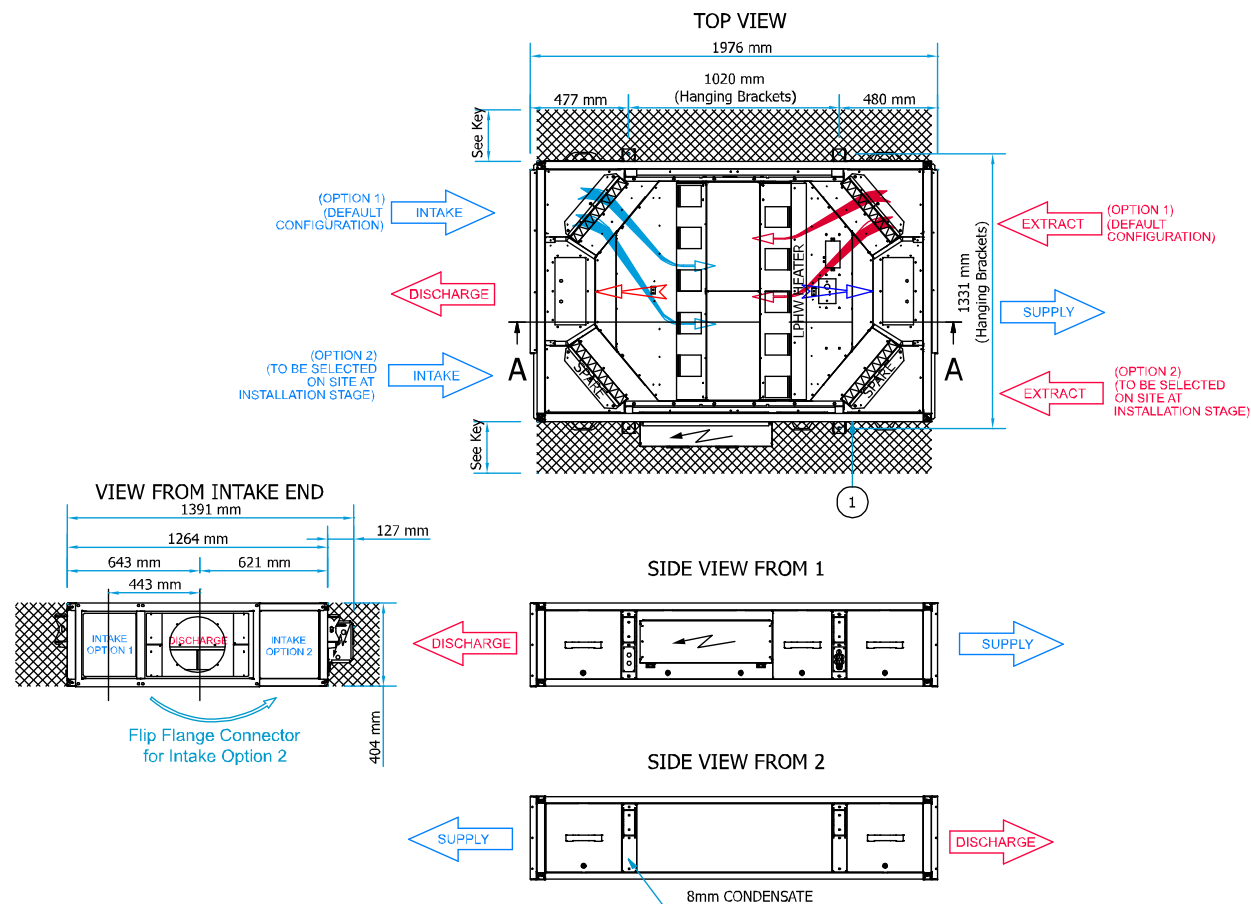
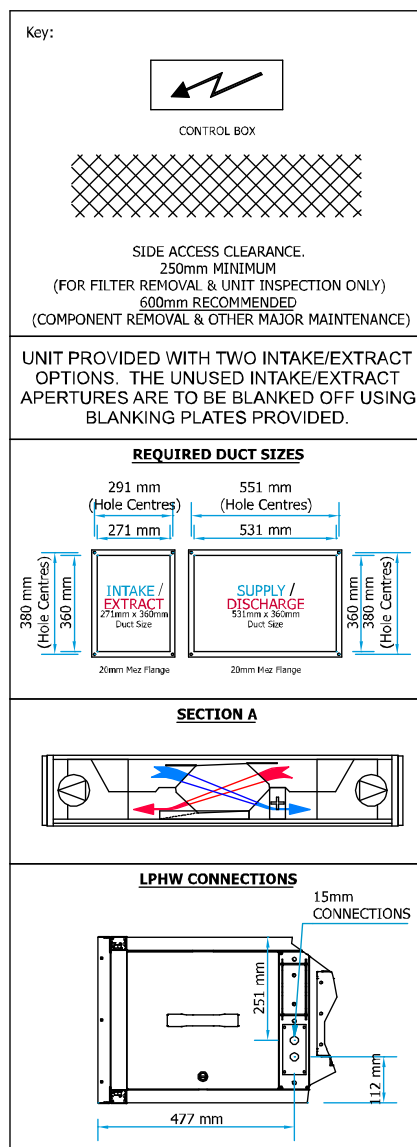
Fan Dimensions



A	B	C	D	E	F	G	H	I
1913	1262	405	1973	140	210	640	443	30
J	K	L	M	N	O	kg		
270	360	1461	531	1332	1020	298.0		

Length: Width: Height:
1913 1262 405

Drawing is for dimensional purposes only. Dimensions in mm.



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbcplus45-hl-r.dwg>

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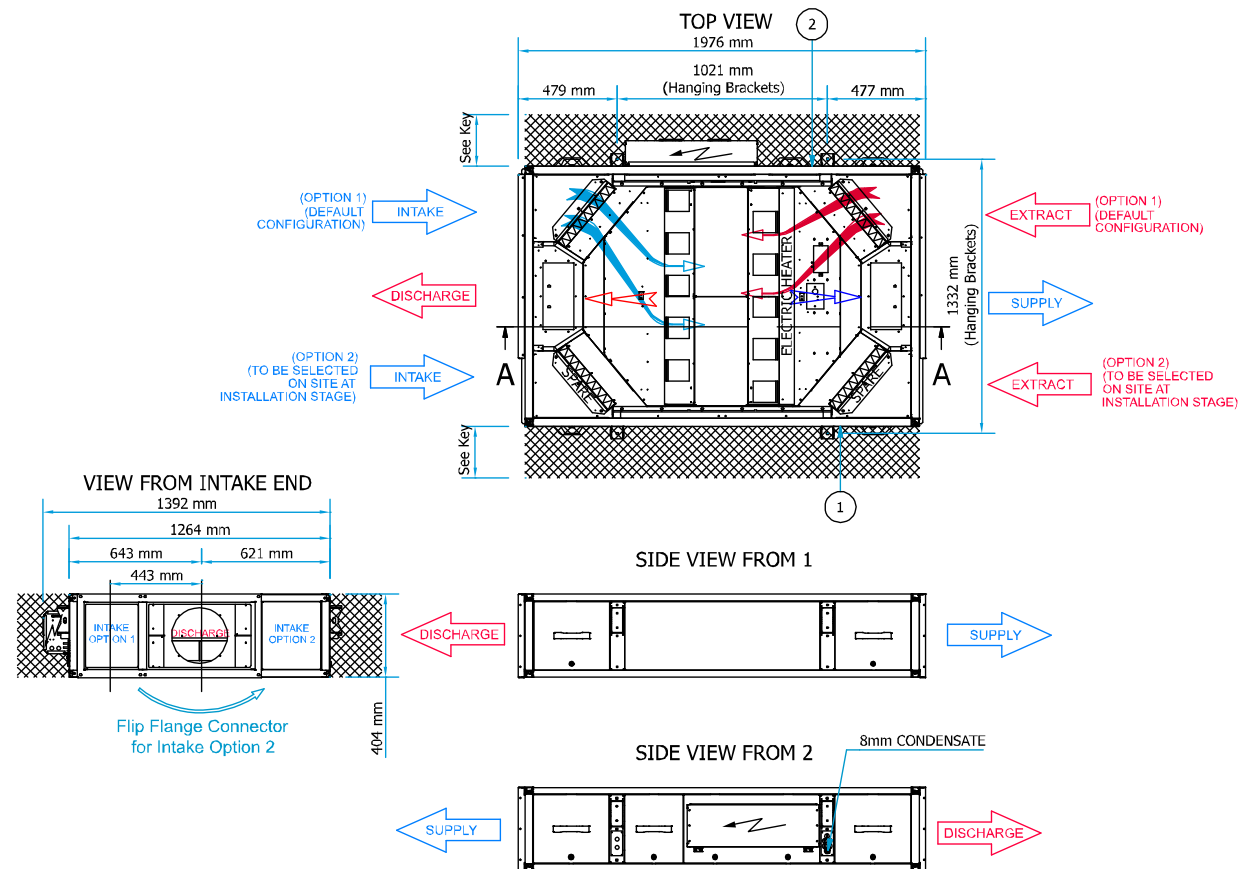
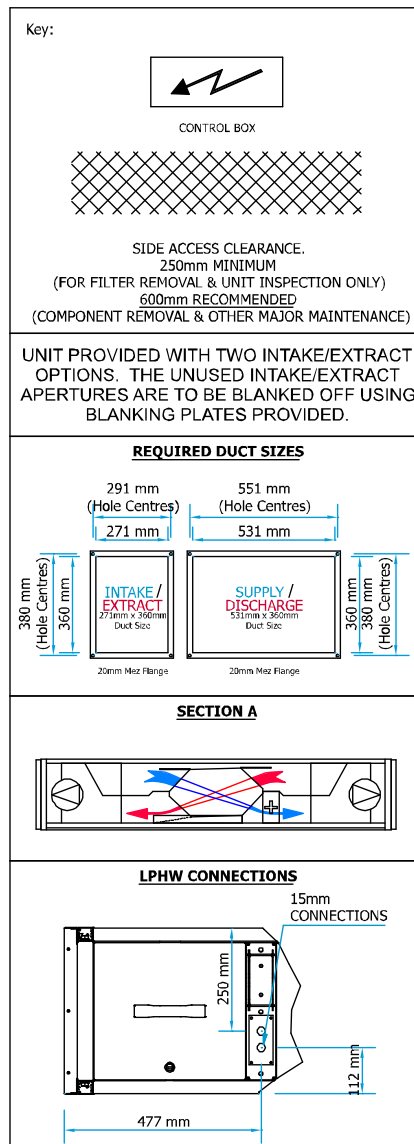
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