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Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
 This data sheet produced on 21 Nov 2018 17:13 using software version 3.6.19.2088 - 12-Mar-2018

Technical Data

New XBOXER - With Ecosmart Adapt with Trend Control Heat Recovery Fan

Fan Code: **XBC25-H-NAT**
 Installation Manual Links: 671731
 Required Duty: 0.3 m³/s @ 100 Pa
 Actual Duty: 0.373 m³/s @ 155 Pa
 Actual at Required Flow: 0.3 m³/s @ 504 Pa
 Velocity at Actual Duty: 4.605 m/s

When Speed Controlled to Required Duty (80.4%):
 Velocity at Required Duty: 3.704 m/s
Motor Input Power: 0.518 kW
Specific Fan Power: 1.7 W/(l/s)
 Motor Input Power: 0.995 kW
 Specific Fan Power: 2.7 W/(l/s)
 Nominal Fan Speed: 3,700 RPM
 Electrical Supply: 230 V 1 Phase 50 Hz
 Motor Rating: 1 kW
 Motor Current: flc: 6.8 A
 Motor Current: sc: 6.8 A

Max. Operating Temp.: 60°C
 Weight: 242 kg



XBOXER XBC Heat Recovery Range
 Energy Saving Product of the Year

Project Details

26 Hatton Gardens
 Location: HRU 1 -

Specification

Nuaire XBOXER supply & extract unit with heat recovery. The unit incorporates a high efficiency counterflow plate heat exchanger (up to 90% efficiency) with segmented 100% bypass facility (patent app. for) automatic control and actuator. Performance optimised backward curved impellers and IP54 EC motors provide low specific fan powers and stepless, speed control without tonal noise generation. Asymmetric, high mass double skinned wall construction (patented) with integral acoustic barrier mat (not XBC10) ensures low breakout noise levels with Leakage class L2. Unit is fitted with high capacity pleated G4 (XBC10 is G3) panel filters (spare filters are included). Energy efficient, unit integrated demand based control of ventilation / heating is provided by the Ecosmart Adapt with Trend control system, allowing unitary control and full BMS integration via BACnet IP (integration by others). The system incorporates a Trend IG422/12/LAN/BAC/230 controller, and is augmented by application specific unit interface and diagnostic circuits. Controller software is pre-configured and the unit / control assembly is functionally tested at works (refer to technical documentation for controller functional specification). Low casing height for ceiling / underfloor / slab mounted applications. Flexibility in unit ductwork connections - Supply / Discharge connections on unit centreline; Intake / Extract connections are configurable on site to either side of unit. Side mounted control with 90 degree rotation facility for commissioning adjustments. Unit supplied as configuration A (refer to technical documentation). 5 year warranty. .

Sound Data

Sound Power Levels re 1 pWatts (Hz):

	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	67	66	53	56	43	42	42	34	35
Induct Intake	75	69	67	69	64	60	52	51	
Induct Supply	80	81	76	80	70	70	66	68	
Induct Discharge	81	82	76	79	70	70	68	69	
Induct Extract	74	68	66	69	63	60	52	52	

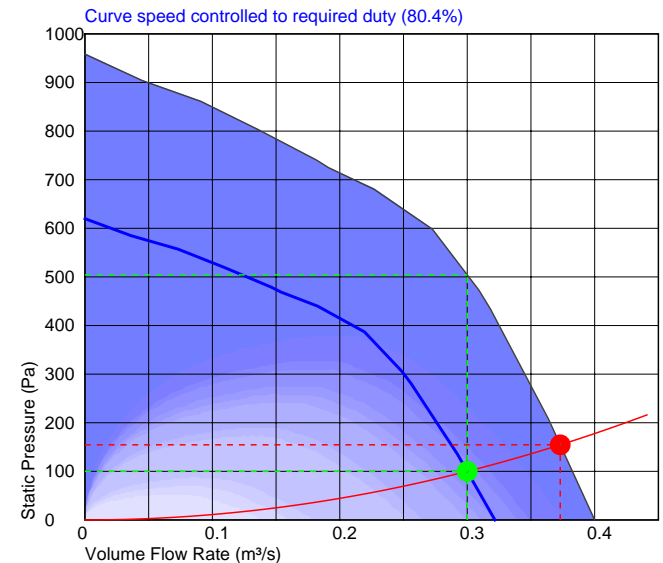
The above spectrums running speed controlled to required duty (80.4%). When running at full speed:

Breakout	72	71	58	61	48	47	47	39	40
Induct Intake	80	74	72	74	69	65	57	56	
Induct Supply	85	86	81	85	75	75	71	73	
Induct Discharge	86	87	81	84	75	75	73	74	
Induct Extract	79	73	71	74	68	65	57	57	

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.

Performance Curve



PLEASE NOTE: This drawing details the factory-standard unit ONLY (unless silencers are shown too). The total length may differ from that shown depending on the ancillaires offered or if the unit code ends in -QA****.

Key:

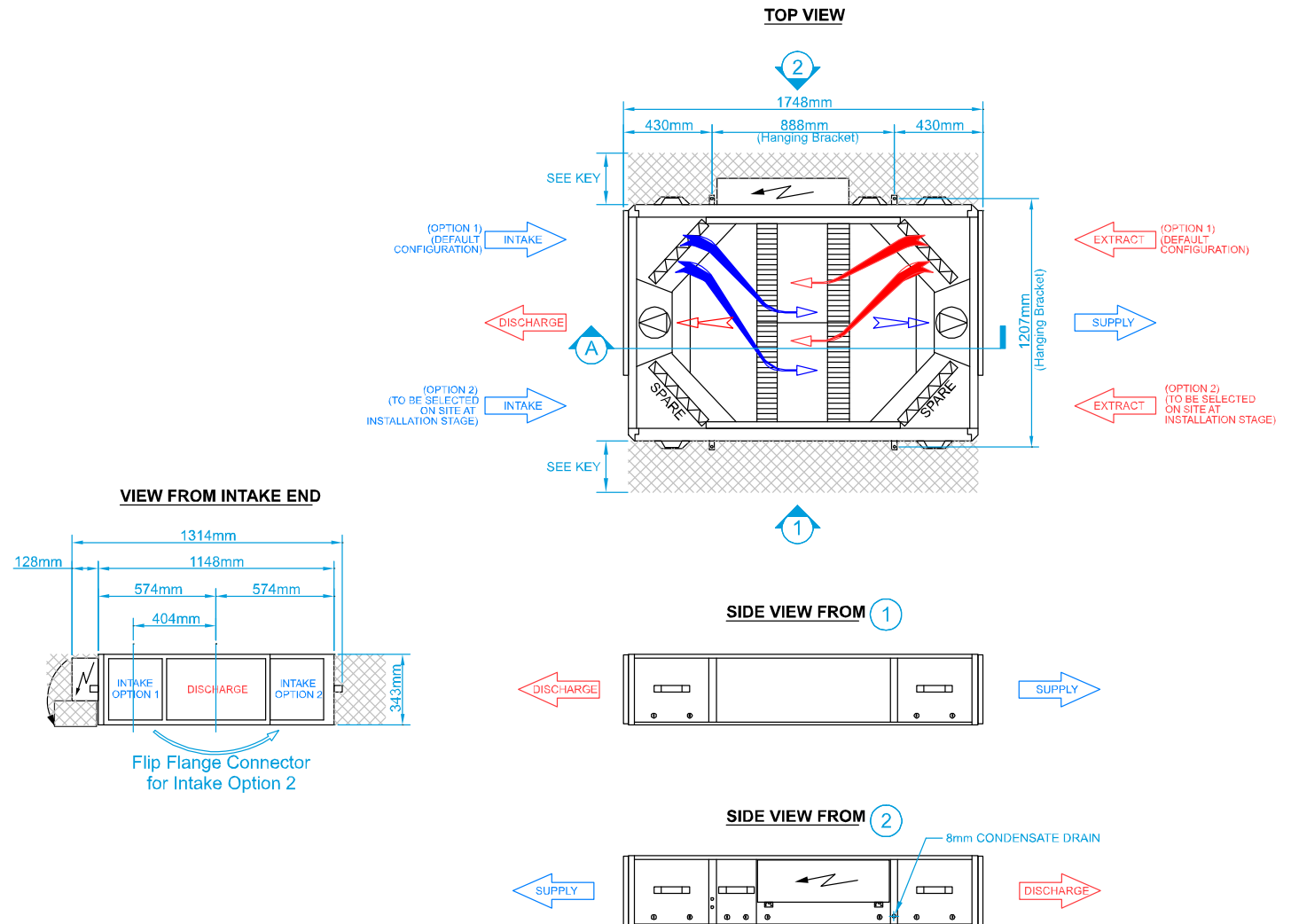
Control Box

SIDE ACCESS CLEARANCE.
250mm MINIMUM
(FOR FILTER REMOVAL & UNIT INSPECTION ONLY)
600mm RECOMMENDED
(COMPONENT REMOVAL & OTHER MAJOR MAINTENANCE)

UNIT PROVIDED WITH TWO INTAKE/EXTRACT OPTIONS. THE UNUSED INTAKE/EXTRACT APERTURES ARE TO BE BLANKED OFF USING BLANKING PLATES PROVIDED.

REQUIRED DUCT SIZES

SECTION A



You can download this CAD drawing from <http://www.nuaire.info/CAD/xbc25-hn-l.dwg>



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PLEASE NOTE This drawing **must be signed and returned** with official order for manufacturing to be scheduled. Nuaire will then advise delivery detail with order acknowledgment. **Approval refers to CAD drawing only and not any other images.**

ARRANGEMENT APPROVAL

Date: _____ Signature: _____
Name (please print): _____