

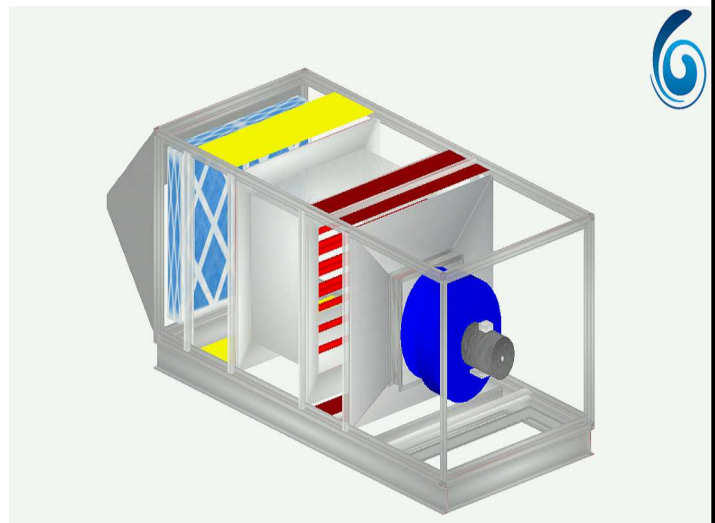
Version VES 2.20

PROJECT DETAILS

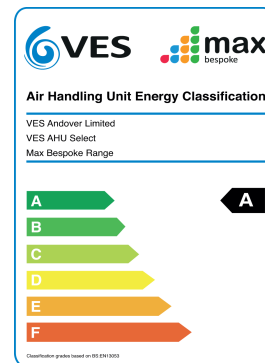
Project no	Q1132309\Rev-00\	Date	14 October 2015	Unit No	Q1132309-01-0	Project Reference	Havant Premier Inn
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UNIT DETAILS

Unit Model	MAX20/A/W/S
Customer Reference	Kitchen Supply AHU
Unit Location	External
Access Side	Right
Frame Construction	25mm Post - 25mm Panels
Frame Finish	STD R7004 Powdercoated
Panel Insulation	Mineral Wool - 25mm
Panel Internal Sheet	Natural Galv. Steel - (0.8)
Panel External Sheet	Std P/Coat Galv. Steel - (0.8)
Roof Type	Single Pitched Roof
Roof Height	100 mm
Base Frame	100mm Sheet Steel (1.6)
Width	1000 mm
Height	800 mm
Length	2150 mm
Weight Approx +-5%	252.3 kg
Section Quantity	1



	Supply	
Duty	1.36	m ³ /s
External Pressure	150	Pa
Total Pressure	309	Pa
SFP	0.63	W/l/s
Unit Combined SFP	.63	W/l/s
Unit Combined SFP With Inverter	.65	W/l/s
Energy Classification	A	
Unit Rating & Performance To	EN13053:2006 +A1:2011	
Unit Mechanical Construction To	EN1886:2007	
Leakage Class	L2 to EN1886:2007	



SECTION WEIGHTS AND DIMENSIONS

Section No	Width	Height	Length	Weight Approx +-5%
A	1000 mm	800 mm	2150 mm	252 kg

SUPPLY SIDE SECTION A

Weather Hood Galv			
Width	950 mm	Height	750 mm
Velocity	1.91 m/s	Pressure Drop	13.00 Pa
Finish	Painted	Position	Onair

Stage #	1	Face Velocity	2.47 m/s
Type	Panel	Pressure Drop	49 Pa
Media	Cotton / Synthetic Fibre	Withdrawal	Side
Filter Grade	G4	Framework Material/Type	
Filter Type	AP	Spare Filters	None

Length	300.0 mm
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Air On DB	-4.0 °C	Air Off DB	16.0 °C
Maximum Heater Duty	36.0 kW	Total Load	33.0 kW
Stages	1	Pressure Drop	40.00 Pa
Voltage	Three phase	Velocity	2.84 m/s
Control	Thyristor		

ACCESSORIES	
Access Porthole Fitted	
Section Fitted With Pre-Wired Isolator	

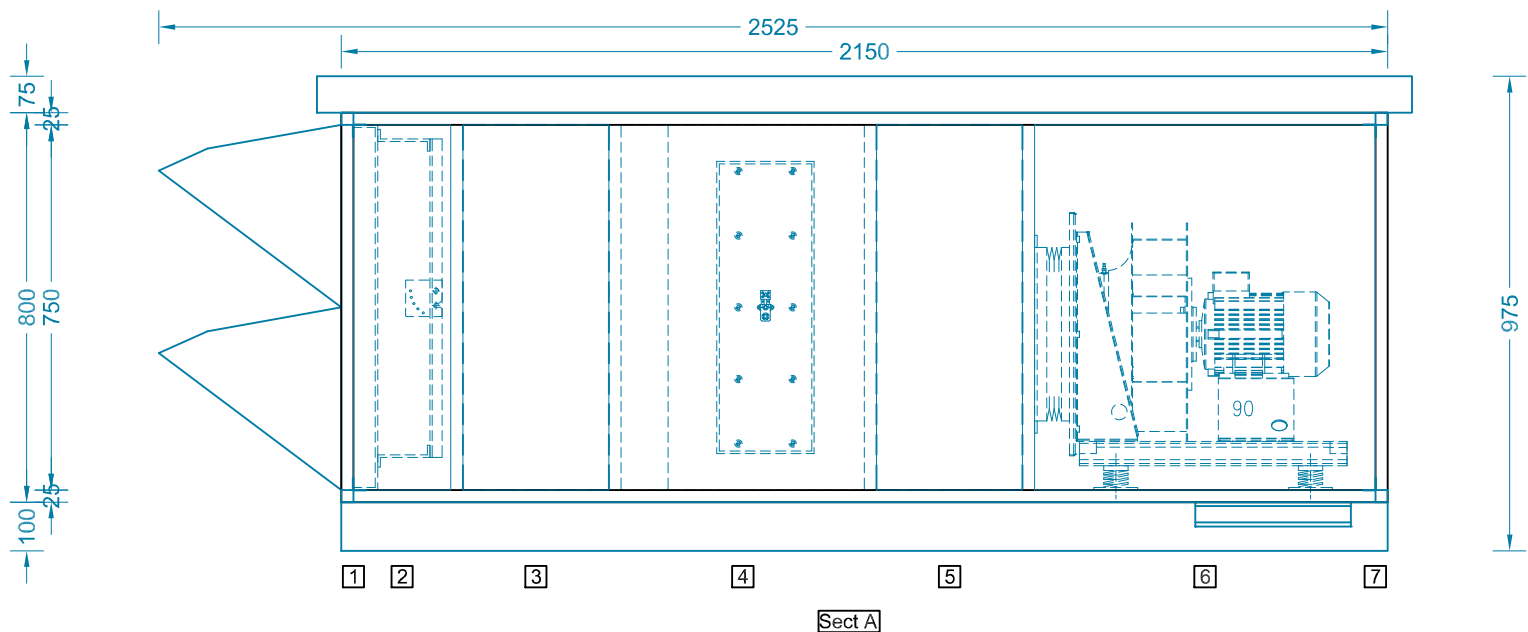
Length	300.0 mm
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Model	ER40C-4DN.C7.CR-130589/2F01			Working RPM	1717 RPM			
Efficiency	56.6 %			Working Hz	61 Hz			
Sound Power	79 dbW			Maximum Hz	71 Hz			
Fan Blade Type	Backward Curve			Absorbed Power	0.86 kW			
Fan Finish	Standard			Motor Type:	AC			
Motor Power	1.10 kW			Motor Voltage	400			
FLC	2.53 A							
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet-db	65	67	71	69	64	62	61	64
Outlet-db	67	70	75	74	74	69	67	67

ACCESSORIES
ELGN1050 Motor Isolator Supplied Fitted & Pre-Wired

The fan and motor sit on a common sub-frame within the casing that is fully vibration isolated.
The fan has a fitted inlet flexible connection.
Where this unit has to pass through restricted access ways, it may be necessary to supply the fan section in more than one piece. This will then require the fan/motor assembly and casing to be bolted together on-site by others.
An Inverter Speed controller is required for the operation of this fan

007 OUTLET SECTION									
50mm Spigot Galv									
Width	850 mm				Height	320 mm			
Velocity	1.91 m/s				Pressure Drop	57.00 Pa			
Finish	Painted				Position	Flair			
AHU ACOUSTIC DATA									
Connection Noise Spectra - Supply Section									
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Overall dB
Inlet Linear Sound Pressure Level L _p dB	61	63	65	63	58	57	52	55	65
Outlet Linear Sound Pressure Level L _p dB	65	66	69	69	71	66	64	64	74
Casing Noise Breakout Spectrum at 3m Distance									
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Fan Power Spectrum L _w dB	67	70	75	74	74	69	67	67	
Case Insertion Reduction	8	10	12	26	29	27	27	26	
Reduction for 3m Distance	18	18	18	18	18	18	18	18	
Resultant Linear Sound Pressure Level at 3m L _p dB	41	42	45	30	27	24	22	23	
NR Level at 3m	36								
Resultant A-Weighted Sound Pressure Level at 3m L _p dBA	15	26	36	27	27	25	23	22	



NOTES:

Section A: Weight $\pm 5\%$ = 252Kgs

Components

1	Inlet Section	mm
2	Panel Filter	200 mm
3	Plenum	300 mm
4	Electric Heat Coil	500 mm
5	Plenum	300 mm
6	Plug Fan	700 mm
7	Outlet Section	mm

ELEVATION

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PROJECT:

Havant Premier Inn

UNIT REFERENCE:

Kitchen Supply AHU

MODEL:

MAX20/A/W/S

AHU No.:

1

QUANTITY.:

1

DUTY:

1.36

M3/S

DRAWN:

DATE:

APPROVED:

DATE:

UNIT No.:

1132309-1-0



ALL DIMENSIONS IN mm

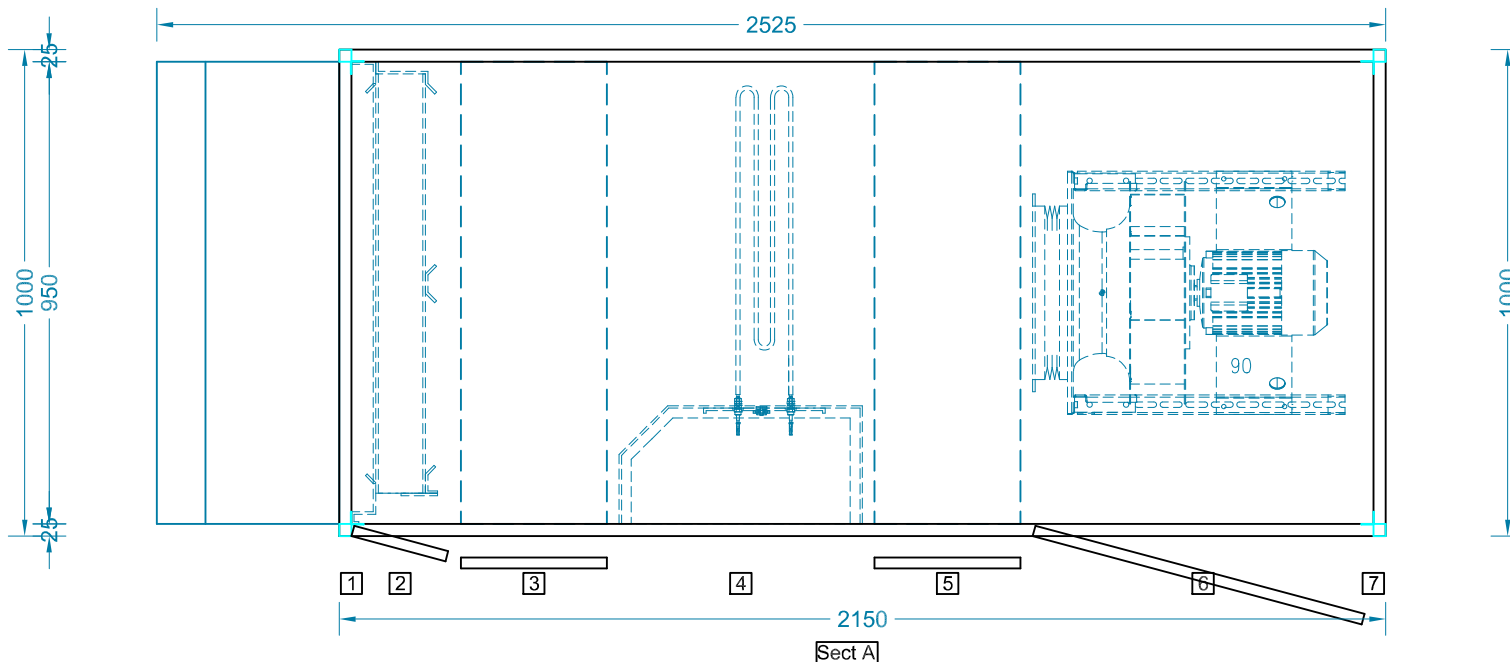
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PLAN DECK

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