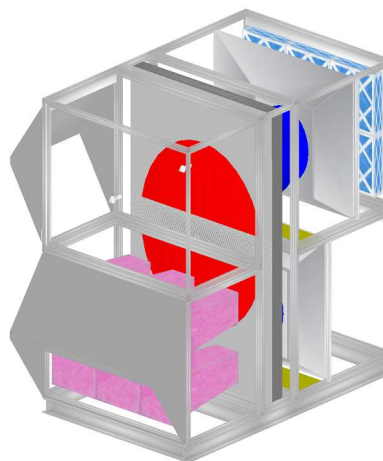


PROJECT DETAILS

Project no	Q1163274\Rev-00\	Date	29 Sep 2017	Unit No	Q1163274-01-0	Project Reference	Next Reading Oracle
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UNIT DETAILS

Unit Model	MAX32/A/SW/S
Customer Reference	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 - 0.9
Panel External Sheet	Std P/Coat Galv. Steel - 0.9



Roof Type	Twin Pitched Roof
Roof Height	100 mm
Base Frame	100mm Sheet Steel (3)
Width	1500 mm
Height	2000 mm
Length	2350 mm
Weight Approx +-5%	788.4 kg
Section Quantity	5

Supply Extract

Duty	2.04	2.04	m ³ /s
External Pressure	250	250	Pa
Total Pressure	479	478	Pa

SFP	0.75	0.75	W/l/s
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Unit Combined SFP	1.51	W/l/s
Unit Combined SFP With Inverter	1.56	W/l/s

Energy Classification

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	1500 mm	1000 mm	850 mm	143 kg
B	1500 mm	2000 mm	400 mm	213 kg
C	1500 mm	1000 mm	1100 mm	167 kg
D	1500 mm	1000 mm	1100 mm	156 kg
E	1500 mm	1000 mm	850 mm	109 kg

SUPPLY SIDE SECTION A

001 INLET SECTION									
Weather Hood Galv									
Width		1450 mm			Height		950 mm		
Velocity		1.48 m/s			Pressure Drop		7.00 Pa		
Finish		Painted			Position		Onair		
002 BAG FILTERS									
Stage #		1			Face Velocity		1.89 m/s		
Type		Bag			Pressure Drop		45 Pa		
Media		Synthetic Fibre			Withdrawl		Side		
Filter Grade		F7			Framework Material/Type				
Filter Type		AB85			Spare Filters		None		
EXTRAS									
ACCESSORIES									
Magnehelic Gauge To Suit 0-250 Pa									
DUAL SIDE SECTION B									
003 HEAT WHEEL EXCHANGER									
Material		1=Galvanized			Drive Type				
Matrix Type		0=All			Rotor Speed		15		
Fresh Air					Extract Air				
Air Volume		2.04 m³/s			Air Volume		2.04 m³/s		
kW Rating		70.700 kW			kW Rating		70.700 kW		
Efficiency		78.300 %			Efficiency		78.300 %		
Pressure Drop		156.0			Pressure Drop		171.0		
Inlet	Temperature	-5.00 °C			Inlet	Temperature	21.00 °C		
	Humidity	100.0 %				Humidity	50.0 %		
Outlet	Temperature	15.300 °C			Outlet	Temperature	0.700 °C		
	Humidity	52.000 %				Humidity	99.000 %		
Summer Operation									
Inlet	Temperature	28.00 °C			Inlet	Temperature	24.00 °C		
	Humidity	50.0 %				Humidity	50.0 %		
Outlet	Temperature	24.900 °C			Outlet	Temperature	27.100 °C		
	Humidity	60.100 %				Humidity	41.500 %		
SUPPLY SIDE SECTION C									
004 PLENUM									
Length		350.0 mm							
005 SUPPLY PLENUM FAN - SINGLE FAN									
Model		GR56C-ZID.GG.CR-115525/A01			Working RPM		1201 RPM		
Efficiency		66.4 %			Working Hz		39 Hz		
Sound Power		78 dbW			Maximum Hz		Hz		
Fan Blade Type		Backward Curve			Absorbed Power		1.55 kW		
Fan Finish		Standard			Motor Type:		EC (Speed Controller Included)		
Motor Power		3.40 kW			Motor Voltage		400		
FLC		4.20 A							
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Inlet-db	62	76	71	67	65	63	59	54	
Outlet-db	67	80	75	75	72	69	65	62	

EXTRAS

ACCESSORIES

Airflow Pressure Switch - Fitted
ELGN1050 Motor Isolator Supplied Fitted & Pre-Wired

006 OUTLET SECTION

50mm Spigot Galv

Width	1450 mm	Height	900 mm
Velocity	1.56 m/s	Pressure Drop	1.00 Pa
Finish	Painted	Position	Ofair

EXHAUST SIDE SECTION D

007 INLET SECTION

50mm Spigot Galv

Width	1450 mm	Height	900 mm
Velocity	1.56 m/s	Pressure Drop	1.00 Pa
Finish	Painted	Position	Onair

008 PANEL FILTERS

Stage #	1	Face Velocity	1.84 m/s
Type	Panel	Pressure Drop	45 Pa
Media	Cotton / Synthetic Fibre	Withdrawl	Side
Filter Grade	M6	Framework Material/Type	
Filter Type	AP	Spare Filters	None

EXTRAS

ACCESSORIES

Magnehelic Gauge To Suit 0-250 Pa

009 EXHAUST PLENUM FAN - SINGLE FAN

Model	GR56C-ZID.GG.CR-115525/A01		Working RPM	1200 RPM				
Efficiency	66.4 %		Working Hz	39 Hz				
Sound Power	78 dbW		Maximum Hz	Hz				
Fan Blade Type	Backward Curve		Absorbed Power	1.55 kW				
Fan Finish	Standard		Motor Type:	EC (Speed Controller Included)				
Motor Power	3.40 kW		Motor Voltage	400				
FLC	4.20 A							
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet-db	62	76	71	67	65	63	59	54
Outlet-db	67	80	75	75	72	69	65	62

EXTRAS

ACCESSORIES

Airflow Pressure Switch - Fitted
ELGN1050 Motor Isolator Supplied Fitted & Pre-Wired

NOTES

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.

EXHAUST SIDE SECTION E

0010 OUTLET SECTION

Weather Hood Galv

Width	800 mm	Height	900 mm
Velocity	2.83 m/s	Pressure Drop	9.00 Pa
Finish	Painted	Position	Riair

AHU ACOUSTIC DATA

Connection Noise Spectra - Supply Section

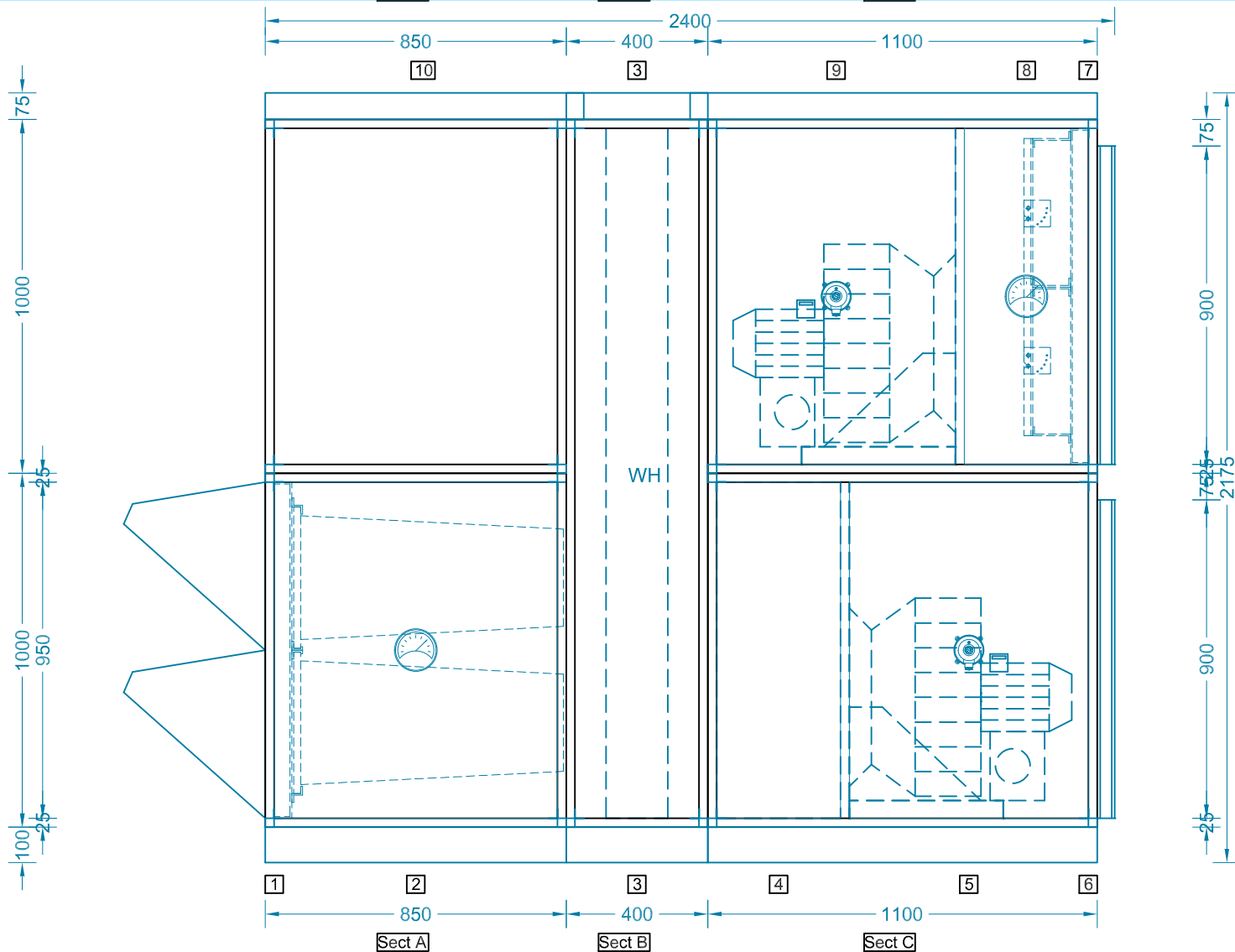
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Overall dB
Inlet Linear Sound Pressure Level L_pdB	56	66	59	55	53	48	43	32	58
Outlet Linear Sound Pressure Level L_pdB	65	76	69	70	69	66	62	59	74

Connection Noise Spectra - Extract 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_pdB	59	73	66	62	61	60	54	49	67
Outlet Linear Sound Pressure Level L_pdB	62	70	64	66	63	61	56	49	68

Casing Noise Breakout Spectrum at 3m Distance

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply Fan Power Spectrum L_wdB	67	80	75	75	72	69	65	62
Extract Fan Power Spectrum L_wdB	67	80	75	75	72	69	65	62
Combined Fan Power Spectrum L_wdB	70	83	78	78	75	72	68	65
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_pdB	44	55	48	34	28	27	23	21
NR Level at 3m	39							
Resultant A-Weighted Sound Pressure Level at 3m L_pdba	18	39	39	31	28	28	24	20



NOTES:

Section A: Weight +5% = 143Kgs

Components

- | | | |
|---|---------------|--------|
| 1 | Inlet Section | mm |
| 2 | Bag Filter | 800 mm |

Section B: Weight +5% = 213Kgs

Components

- | | | |
|---|-----------------------|--------|
| 3 | Rotary Heat Exchanger | 350 mm |
|---|-----------------------|--------|

Section C: Weight +5% = 167Kgs

Components

- | | | |
|---|----------------|--------|
| 4 | Plenum | 350 mm |
| 5 | Plug Fan | 675 mm |
| 6 | Outlet Section | mm |

Section D: Weight +5% = 156Kgs

Components

- | | | |
|---|---------------|--------|
| 7 | Inlet Section | mm |
| 8 | Panel Filter | 350 mm |
| 9 | Plug Fan | 675 mm |

Section E: Weight +5% = 109Kgs

Components

- | | | |
|----|----------------|--------|
| 10 | Outlet Section | 825 mm |
|----|----------------|--------|

ELEVATION

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PROJECT:

Next Reading Oracle

UNIT REFERENCE:

AHU

MODEL:

MAX32/A/SW/S

AHU No.:

1

QUANTITY.:

1

DUTY:

2.04/2.04

DRAWN:

DATE:

APPROVED:

DATE:

UNIT No.:

1163274-1-0



ALL DIMENSIONS IN mm

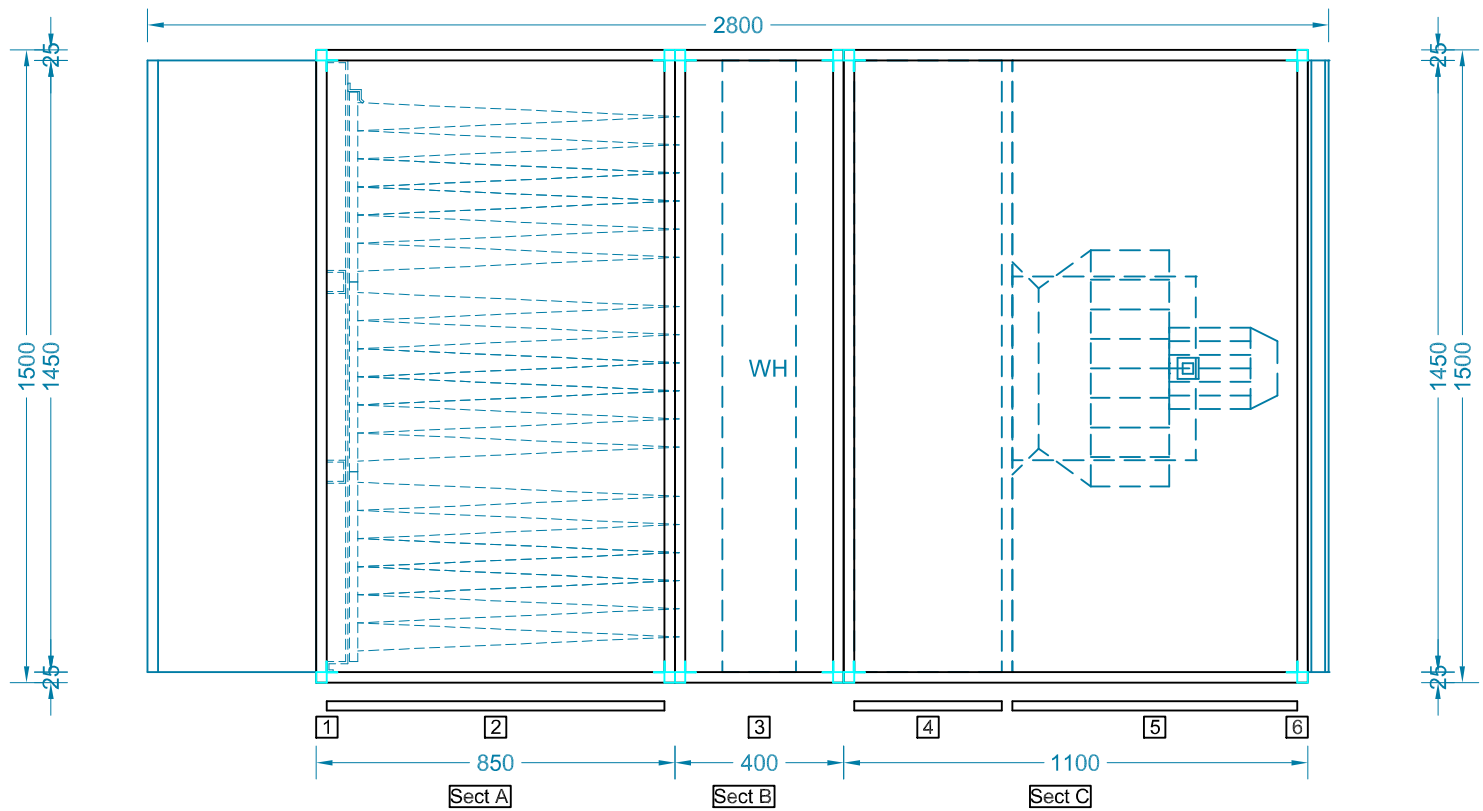
DO NOT SCALE

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No.:

REVISION.:

DATE:



NOTES:

- Section A: Weight +5% = 143Kgs**
Components
 1 Inlet Section mm
 2 Bag Filter 800 mm
- Section B: Weight +5% = 213Kgs**
Components
 3 Rotary Heat Exchanger 350 mm
- Section C: Weight +5% = 167Kgs**
Components
 4 Plenum 350 mm
 5 Plug Fan 675 mm
 6 Outlet Section mm
- Section D: Weight +5% = 156Kgs**
Components
 7 Inlet Section mm
 8 Panel Filter 350 mm
 9 Plug Fan 675 mm
- Section E: Weight +5% = 109Kgs**
Components
 10 Outlet Section 825 mm

PLAN LOWER DECK

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PROJECT:

Next Reading Oracle

UNIT REFERENCE:

AHU

MODEL:

MAX32/A/SW/S

AHU No.:	QUANTITY.:	DUTY:	DRAWN:	APPROVED:	UNIT No.:
1	1	2.04/2.04 M3/S	DATE:	DATE:	1163274-1-0

		ALL DIMENSIONS IN mm	DO NOT SCALE
		IF IN DOUBT PLEASE CONTACT VES DESIGN OFFICE	
No.:	REVISION.:	DATE:	

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