



Better air for the built environment

Version VES 2.20

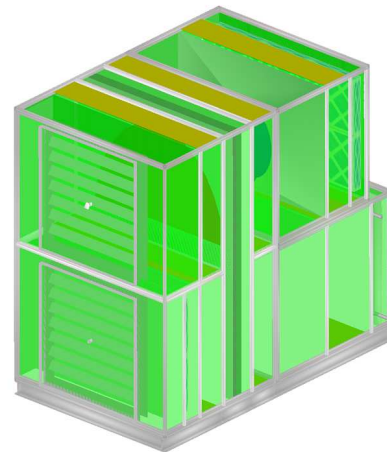
TECHNICAL SPECIFICATION SHEET

PROJECT DETAILS

Project no	Date	Unit No	Project Reference
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UNIT DETAILS

Unit Model	MAX37/A/SW/S
Customer Reference	
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	1900 mm
Height	2000 mm
Length	3225 mm
Weight Approx +-5%	1305.4 kg
Section Quantity	7

Supply Extract

Duty	2.50	2.50	m ³ /s
External Pressure	250	250	Pa
Total Pressure	444	453	Pa

SFP	0.77	0.70	W/l/s
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Unit Combined SFP	1.47	W/l/s
Unit Combined SFP With Inverter	1.52	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	1900 mm	2000 mm	1600 mm	682 kg
B	1900 mm	1000 mm	1625 mm	361 kg
C	1900 mm	1000 mm	1300 mm	263 kg

SUPPLY SIDE SECTION A

001 INLET SECTION			
<u>50mm Spigot Galv</u>			
Width	1200 mm	Height	900 mm
Velocity	2.31 m/s	Pressure Drop	5.00 Pa
Finish	Painted	Position	Onair
<u>Fresh Air Damper</u>			
Width	1150 mm	Height	850 mm
Velocity	2.56 m/s	Pressure Drop	5.00 Pa
Material	Aluminium	Position	Onair
Finish	None	Mounting	Internal

EXTRAS			
ACCESSORIES			
Fitted & Pre-Wired Isolator To Suit 1 No. Damper Motor			
24V Open Close Damper Motor			

002 PANEL FILTERS			
Stage #	1	Face Velocity	1.72 m/s
Type	Panel	Pressure Drop	24 Pa
Media	Cotton / Synthetic Fibre	Withdrawl	Side
Filter Grade	G4	Framework Material/Type	
Filter Type	AP	Spare Filters	None

EXTRAS			
ACCESSORIES			
Filter Pressure Switch - Fitted			
Magnehelic Gauge To Suit 0-250 Pa			

003 PLENUM	
Length	300.0 mm

DUAL SIDE SECTION A

004 HEAT WHEEL EXCHANGER					
Material		1=Galvanized	Drive Type		
Matrix Type		0=All	Rotor Speed		15
<u>Fresh Air</u>			<u>Extract Air</u>		
Air Volume		2.50 m³/s	Air Volume		2.50 m³/s
kW Rating		75.600 kW	kW Rating		75.600 kW
Efficiency		84.300 %	Efficiency		84.300 %
Pressure Drop		133.0	Pressure Drop		144.0
Inlet	Temperature	-4.00 °C	Inlet	Temperature	18.00 °C
	Humidity	100.0 %		Humidity	50.0 %
Outlet	Temperature	14.500 °C	Outlet	Temperature	-0.500 °C
	Humidity	49.400 %		Humidity	99.000 %
Summer Operation					
Inlet	Temperature	28.00 °C	Inlet	Temperature	24.00 °C
	Humidity	50.0 %		Humidity	50.0 %
Outlet	Temperature	24.600 °C	Outlet	Temperature	27.400 °C
	Humidity	61.100 %		Humidity	40.900 %

SUPPLY SIDE SECTION A

005 PLENUM	
Length	300.0 mm

SUPPLY SIDE SECTION B

006 SUPPLY PLENUM FAN - SINGLE FAN								
Model	GR50C-ZID.GG.CR-115523/A01			Working RPM			1573 RPM	
Efficiency	65.3 %			Working Hz			42 Hz	
Sound Power	85 dbW			Maximum Hz			Hz	
Fan Blade Type	Backward Curve			Absorbed Power			1.94 kW	
Fan Finish	Standard			Motor Type:			EC (Speed Controller Included)	
Motor Power	3.50 kW			Motor Voltage			400	
FLC	4.40 A							
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet-db	70	76	78	76	71	69	67	67
Outlet-db	73	81	86	82	81	75	73	72

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.								

007 SPACE FOR FITTED CONTROL PANEL	
Length	600.0 mm

008 WATER HEATING COIL			
Heater Type	Main	Medium	Water
Air On Temp	14.0 °C	Air Off Temp	37.0 °C
Water Inlet Temp	80.0 °C	Water Outlet Temp	50.0 °C
Fin Material	Aluminium	Heating Duty	69.66 kW
Flow Rate	0.57 L/s	Face Velocity	1.85
Fluid PD	11.0 kPa	Connection Type	Screwed BSP
Coil Internal Volume	12.4 L	Connection In/Out	1 x 1¼" / 1 x 1¼"
Pressure Drop	12.0 Pa		

EXTRAS	
NOTES	
Water coils are designed suitable for a maximum working pressure of 600kPa(g), a maximum water temperature of 90°C, and are tested to 1700kPa (g) using compressed air, whilst immersed in water. Designs for different temperatures and pressures are available on request.	

009 OUTLET SECTION			
<u>50mm Spigot Galv</u>			
Width	1200 mm	Height	900 mm
Velocity	2.31 m/s	Pressure Drop	3.00 Pa
Finish	Painted	Position	Ofair

EXHAUST SIDE SECTION C	
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0010 INLET SECTION			
<u>50mm Spigot Galv</u>			
Width	1200 mm	Height	900 mm
Velocity	2.31 m/s	Pressure Drop	3.00 Pa
Finish	Painted	Position	Onair

0011 PANEL FILTERS			
Stage #	1	Face Velocity	1.72 m/s
Type	Panel	Pressure Drop	47 Pa
Media	Cotton / Synthetic Fibre	Withdrawl	Side
Filter Grade	M6	Framework Material/Type	
Filter Type	AP	Spare Filters	None

EXTRAS

ACCESSORIES

Filter Pressure Switch - Fitted
Magnehelic Gauge To Suit 0-250 Pa

0012 PLENUM

Length 300.0 mm

0013 EXHAUST PLENUM FAN - SINGLE FAN

Model	GR56C-ZID.GG.CR-115525/A01		Working RPM	1267 RPM				
Efficiency	68.9 %		Working Hz	41 Hz				
Sound Power	80 dbW		Maximum Hz	Hz				
Fan Blade Type	Backward Curve		Absorbed Power	1.79 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	64	76	74	69	66	64	63	59
Outlet-db	68	80	77	77	74	70	68	65

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 A

0014 PLENUM

Length 300.0 mm

EXHAUST SIDE SECTION A

0015 PLENUM

Length 300.0 mm

0016 OUTLET SECTION

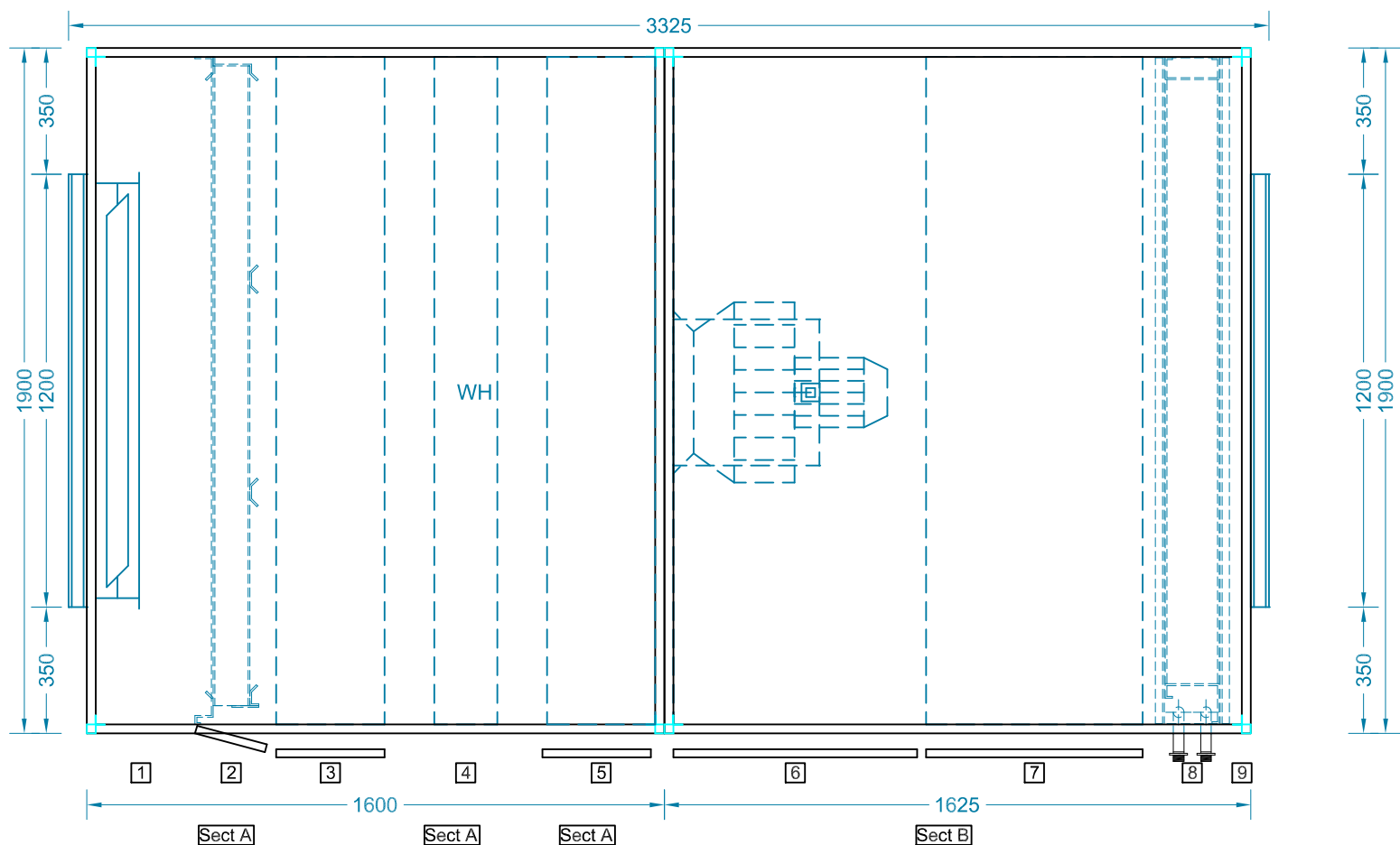
<u>Exhaust Air Damper</u>			
Width	1150 mm	Height	850 mm
Velocity	2.56 m/s	Pressure Drop	5.00 Pa
Material	Aluminium	Position	Ofair
Finish	None	Mounting	Internal
<u>50mm Spigot Galv</u>			
Width	1200 mm	Height	900 mm
Velocity	2.31 m/s	Pressure Drop	5.00 Pa
Finish	Painted	Position	Ofair

EXTRAS

ACCESSORIES

Fitted & Pre-Wired Isolator To Suit 1 No. Damper Motor
24V Open Close Damper Motor

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	64	67	68	67	61	61	56	52	68
Outlet Linear Sound Pressure Level L _p dB	69	76	79	75	77	69	66	61	80
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 _p dB	61	73	69	64	62	61	58	54	68
Outlet Linear Sound Pressure Level L _p dB	63	70	66	68	65	62	59	52	70
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 _w dB	73	81	86	82	81	75	73	72	
Extract Fan Power Spectrum L _w dB	68	80	77	77	74	70	68	65	
Combined Fan Power Spectrum L _w dB	74	84	87	83	82	76	74	73	
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	49	56	57	40	35	32	30	29	
NR Level at 3m	48								
Resultant A-Weighted Sound Pressure Level at 3m L _p dBA	23	40	48	37	35	33	31	28	



NOTES:

Section A: Weight $\pm 5\%$ = 146Kgs

Components

1	Inlet Section	250 mm
2	Panel Filter	200 mm
3	Plenum	300 mm

Section A: Weight $\pm 5\%$ = 333Kgs

Components

4	Rotary Heat Exchanger	350 mm
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Section A: Weight $\pm 5\%$ = 49Kgs

Components

5	Plenum	300 mm
---	--------	--------

Section B: Weight $\pm 5\%$ = 361Kgs

Components

6	Plug Fan	675 mm
7	Plenum	600 mm
8	Main LPHW Coil	225 mm
9	Outlet Section	mm

Section C: Weight $\pm 5\%$ = 263Kgs

Components

10	Inlet Section	mm
11	Panel Filter	200 mm
12	Plenum	300 mm
13	Plug Fan	675 mm

Section A: Weight $\pm 5\%$ = 28Kgs

Components

14	Plenum	300 mm
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Section A: Weight $\pm 5\%$ = 126Kgs

Components

15	Plenum	300 mm
16	Outlet Section	475 mm

PLAN LOWER DECK

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PROJECT:

UNIT REFERENCE:

AHU

MODEL:

MAX37/A/SW/S

AHU No.:

1

QUANTITY.:

1

DUTY:

2.5/2.5
M3/S

DRAWN:

DATE:

APPROVED:

DATE:

UNIT No.:



ALL DIMENSIONS IN mm

DO NOT SCALE

IF IN DOUBT PLEASE CONTACT VES DESIGN OFFICE

No.:

REVISION.:

DATE:

NOTES:

Section A: Weight +5% = 146Kgs

Components

1	Inlet Section	250 mm
2	Panel Filter	200 mm
3	Plenum	300 mm

Section A: Weight +5% = 333Kgs

Components

4	Rotary Heat Exchanger	350 mm
---	-----------------------	--------

Section A: Weight +5% = 49Kgs

Components

5	Plenum	300 mm
---	--------	--------

Section B: Weight +5% = 361Kgs

Components

6	Plug Fan	675 mm
7	Plenum	600 mm
8	Main LPHW Coil	225 mm
9	Outlet Section	mm

Section C: Weight +5% = 263Kgs

Components

10	Inlet Section	mm
11	Panel Filter	200 mm
12	Plenum	300 mm
13	Plug Fan	675 mm

Section A: Weight +5% = 28Kgs

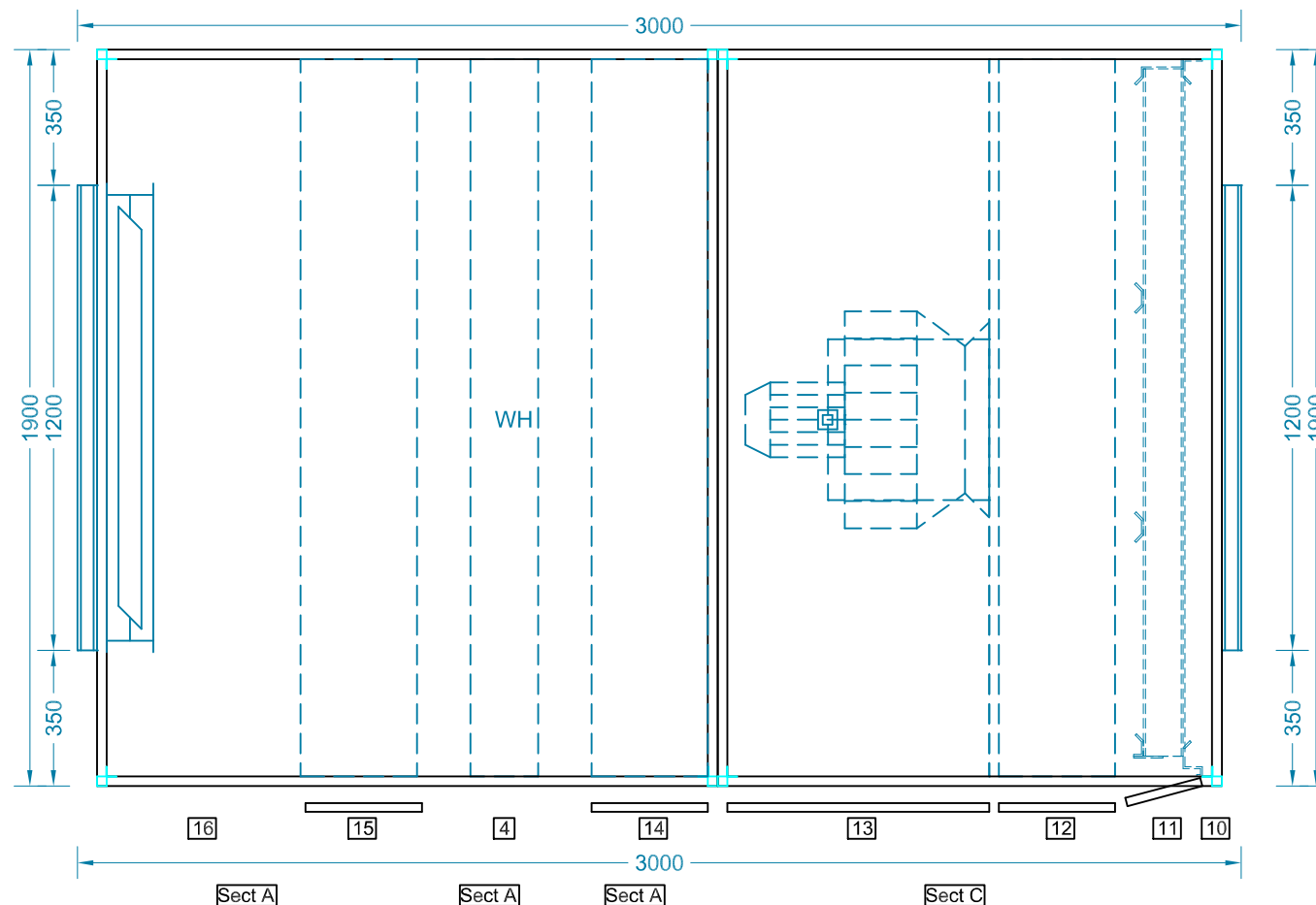
Components

14	Plenum	300 mm
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Section A: Weight +5% = 126Kgs

Components

15	Plenum	300 mm
16	Outlet Section	475 mm



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PROJECT:

UNIT REFERENCE:

AHU

MODEL:

MAX37/A/SW/S

AHU No.:

1

QUANTITY:

1

DUTY:

2.5/2.5
M3/S

DRAWN:

DATE:

APPROVED:

DATE:

UNIT No.:



ALL DIMENSIONS IN mm

DO NOT SCALE

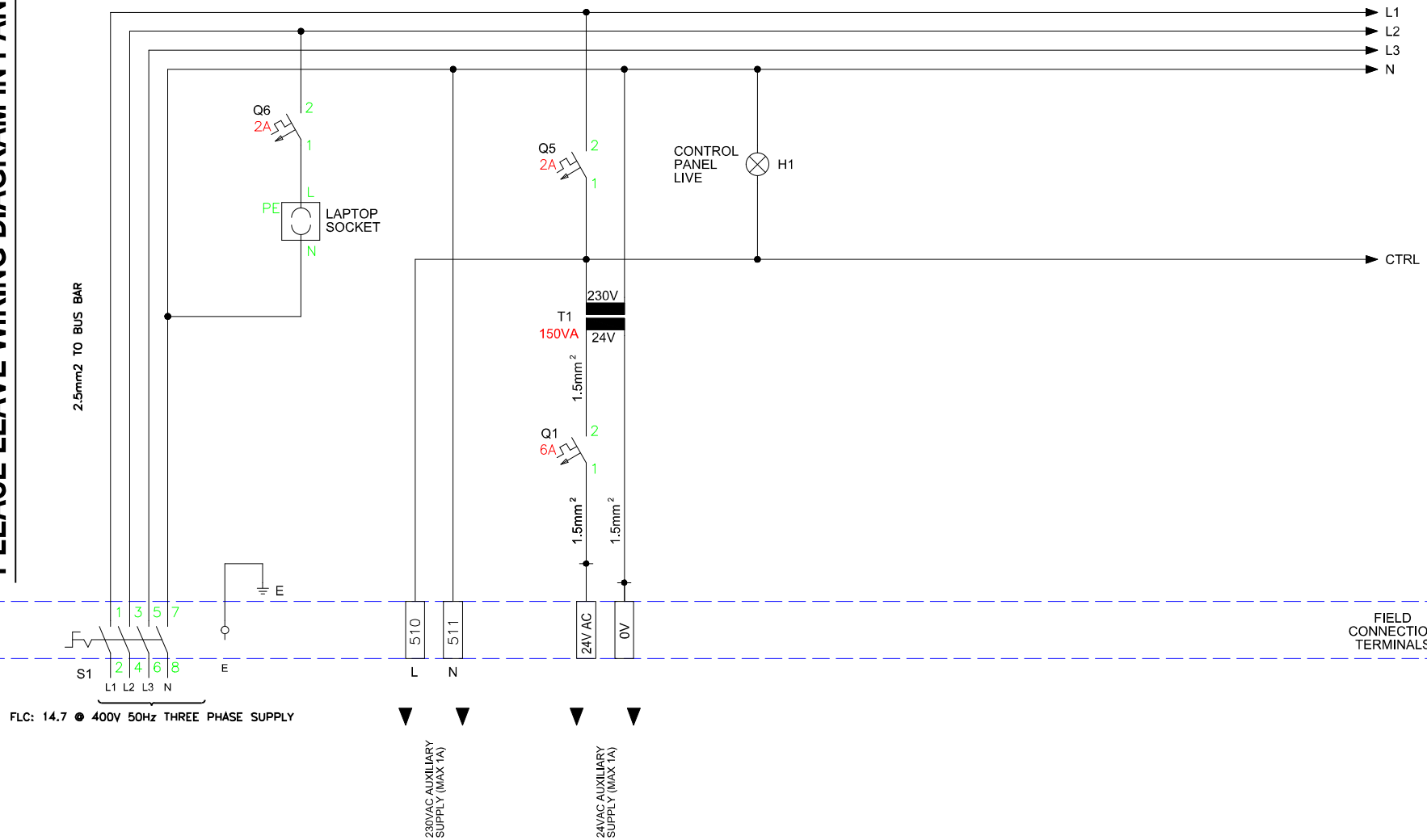
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REVISION.:

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PLEASE LEAVE WIRING DIAGRAM IN PANEL



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DESCRIPTION.

DATE & INITIAL

C.NOTE No.

TITLE:

CPS/S

DRAWN:

NM

CHECKED:

MS

ISSUE

A

S/O No:

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DATE:

03.03.18

DATE:

08.03.18

PAGE:

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OF

10

UNIT REF:

AHU 1 - Sports Hall

DWG No:

SITE REF:

0

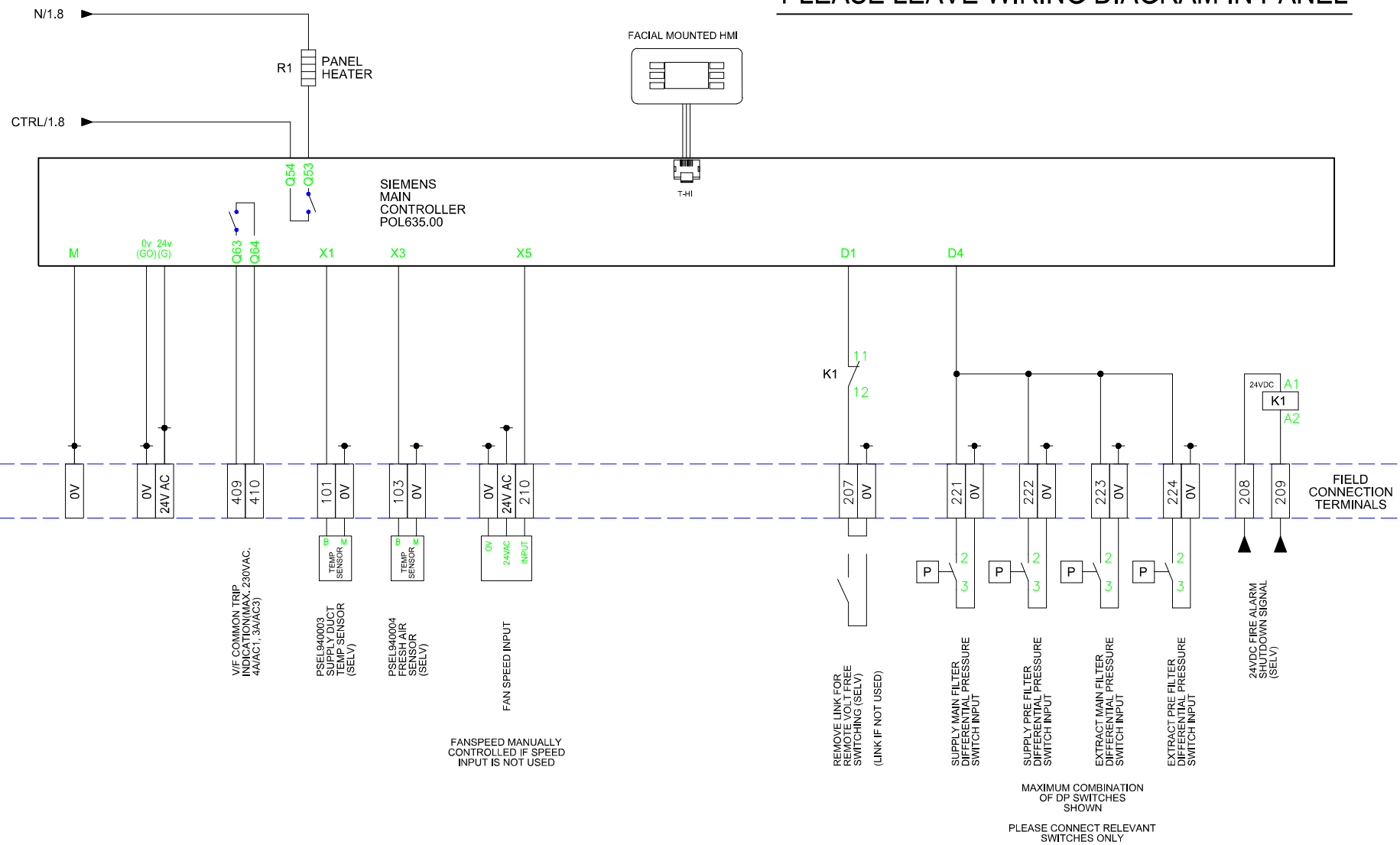
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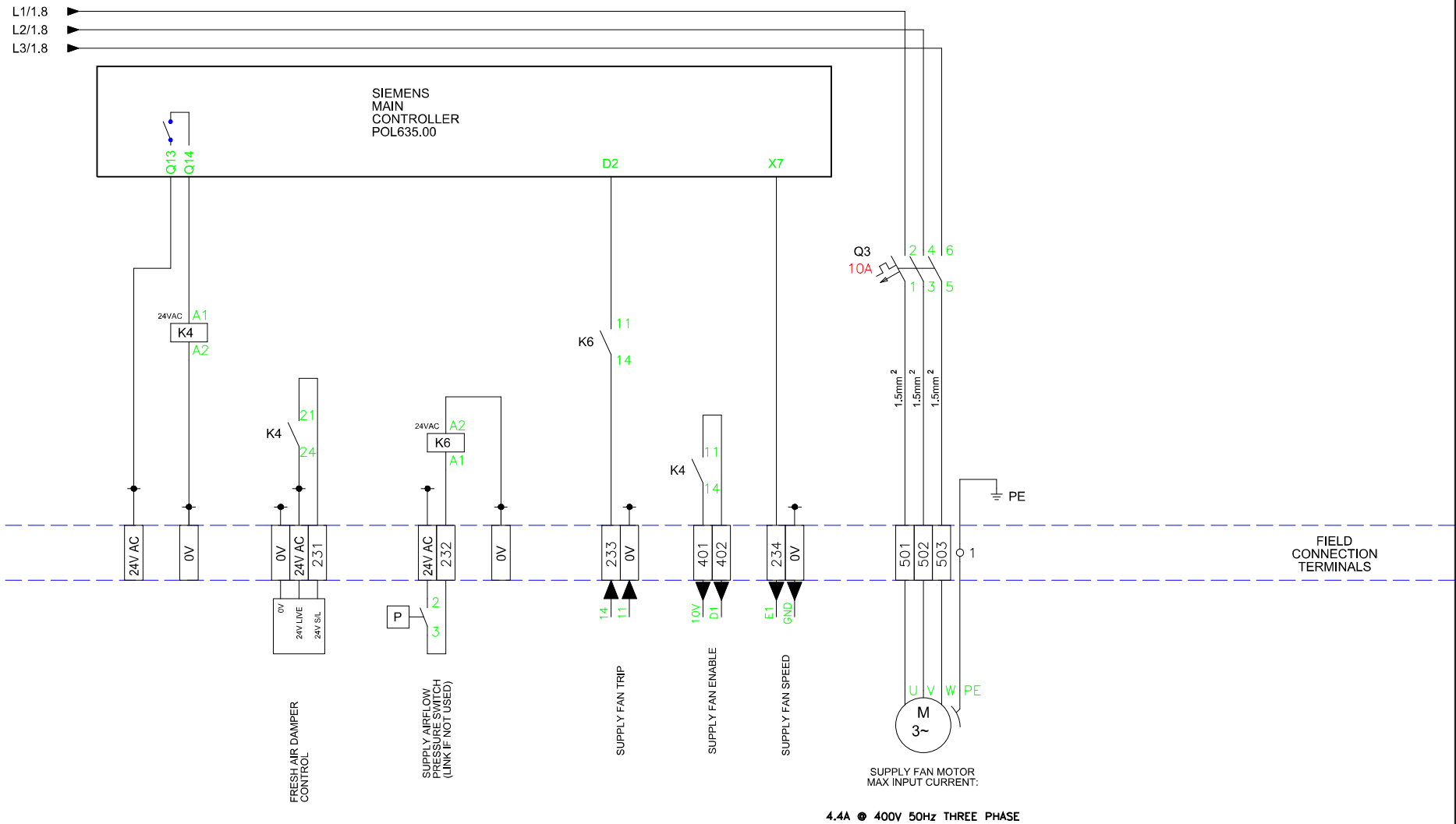
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PLEASE LEAVE WIRING DIAGRAM IN PANEL



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						UNIT REF:	AHU 1 - Sports Hall	DWG No:					
						SITE REF:	0						
						SERIAL NO:	0						

PLEASE LEAVE WIRING DIAGRAM IN PANEL

L1/1.8
L2/1.8
L3/1.8

SIEMENS
MAIN
CONTROLLER
POL635.00

Q23
Q24

D3

X8

24VAC
K5
A1
A2

24V AC
0V

0V
24V AC
238

0V
24V LIVE
24V SIL

21
24

K5

239
240

P

241
0V

14
11

EXTRACT FAN TRIP

403
404

11
14

K5

10V
01

EXTRACT FAN ENABLE

242
0V

E1
GND

EXTRACT FAN SPEED

504
505
506

Q4
10A

2
4
6
1
3
5

1.5mm²
1.5mm²
1.5mm²


PE

FIELD
CONNECTION
TERMINALS

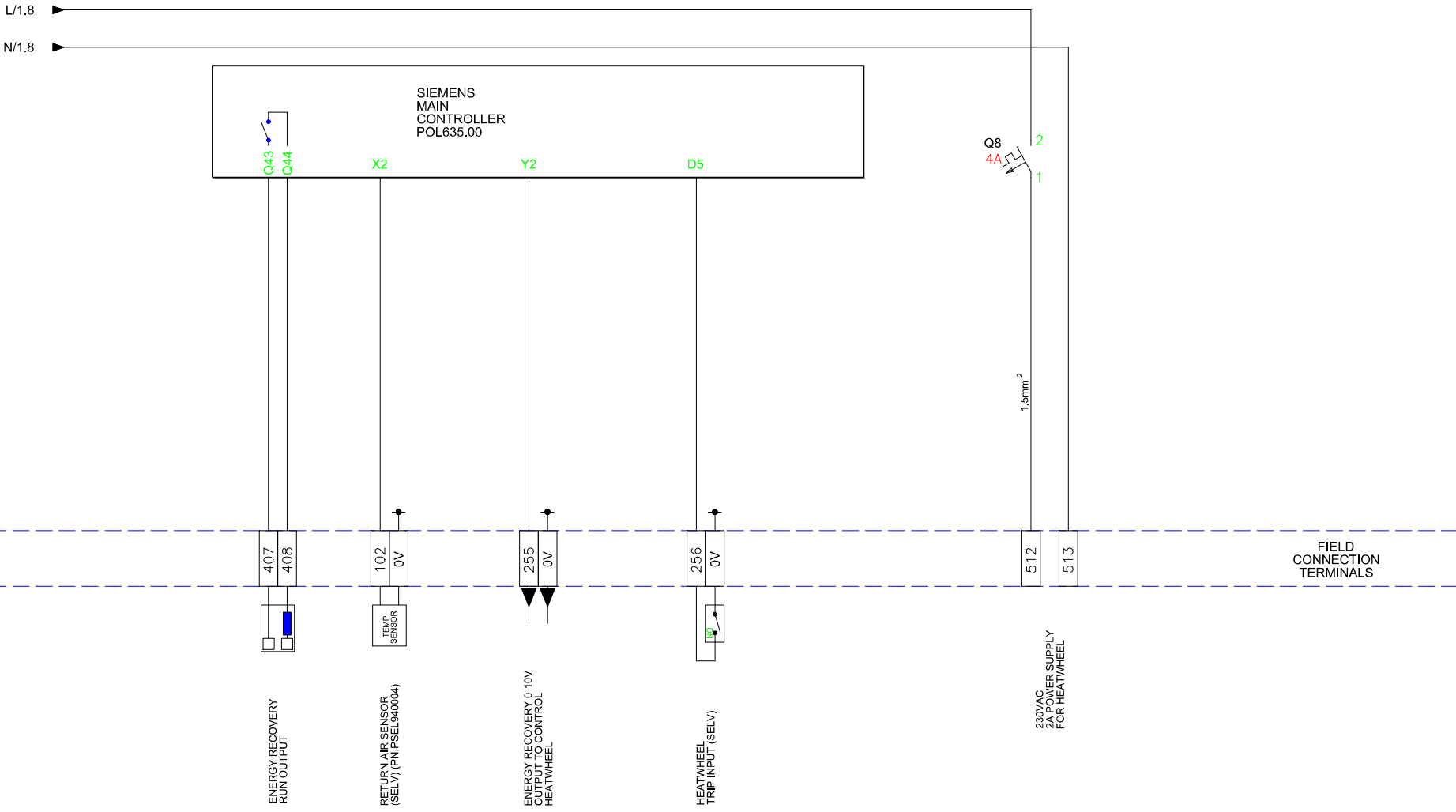
U
V
W
PE


M
3~

EXTRACT FAN MOTOR
MAX INPUT CURRENT:
4.3A @ 400V 50Hz THREE PHASE

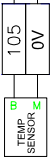
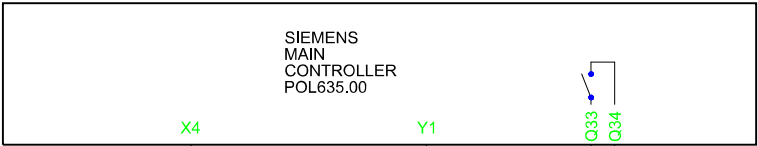
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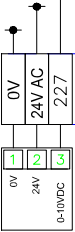


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						UNIT REF:	AHU 1 – Sports Hall				
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							SERIAL NO:				0

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LPHW HEATING COIL
SENSOR (SELV) FITTED ON THE
LPHW COIL (PN7SEL940004)




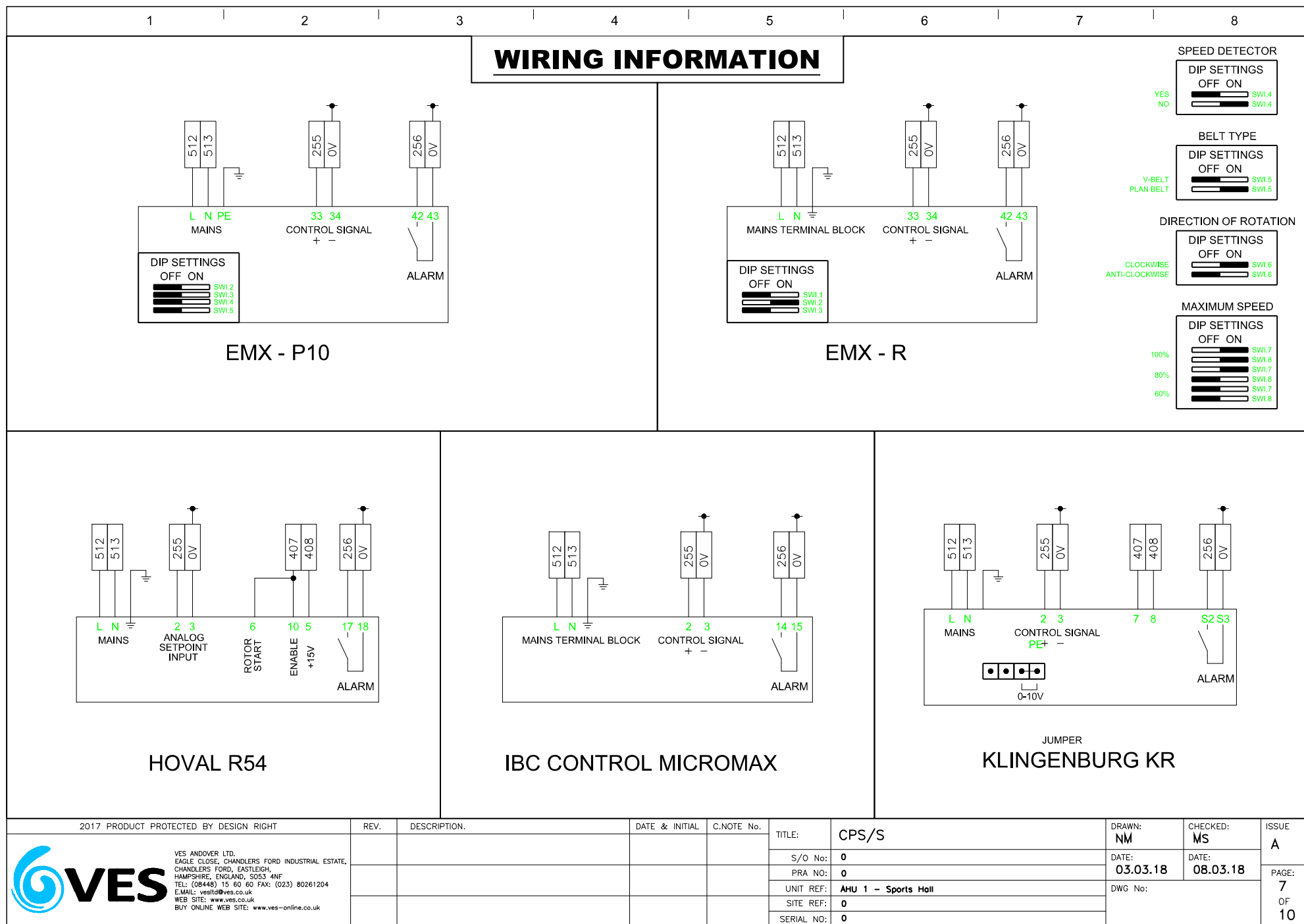
MODULATED 0-10V
HEATING DEMAND OUTPUT
(TO CONTROL LPHW VALVE)

V/F HEATING RUN
FOR BOILER/PUMP
(MAX 230VAC 1A)



FIELD
CONNECTION
TERMINALS

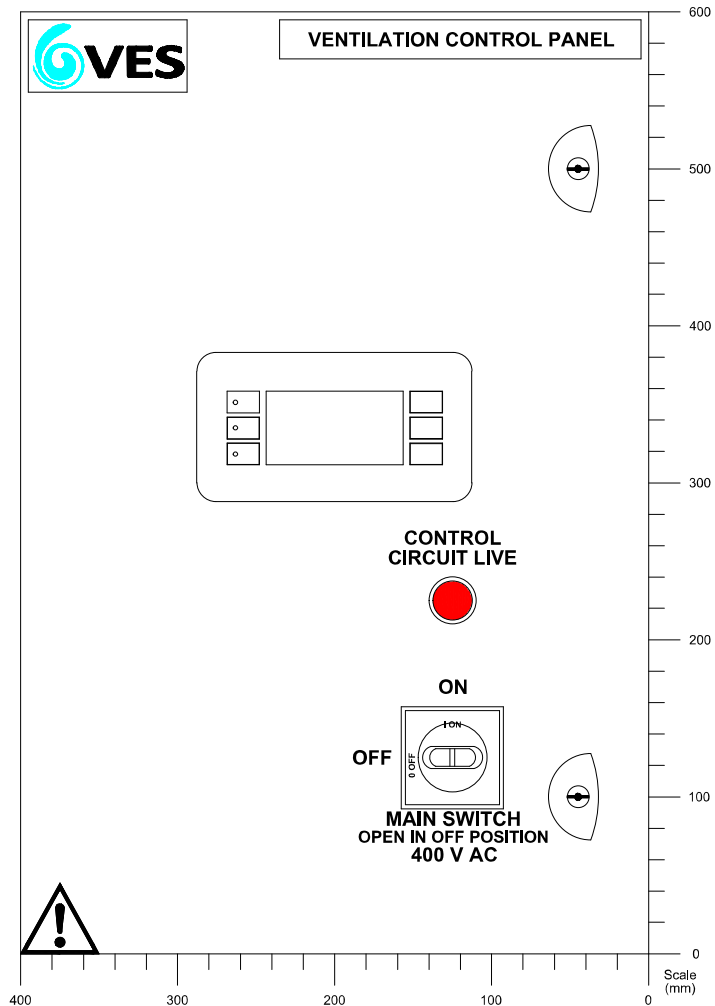
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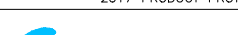
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PANEL FASCIA



SCALE: 1:3


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 <div>VES ANDOVER LTD. EAGLE CLOSE, CHANDLERS FORD INDUSTRIAL ESTATE, CHANDLERS FORD, EASTLEIGH HAMPSHIRE, ENGLAND, SO53 4NF TEL: (08448) 15 60 60 FAX: (023) 80261204 E-MAIL: ves@ves.co.uk WEB SITE: www.ves.co.uk BUY ONLINE WEB SITE: www.ves-online.co.uk</div>					S/O No:	0	DATE:	03.03.18	DATE:	08.03.18	DWG No:	PAGE: 9 OF 10	
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					UNIT REF:	AHU 1 – Sports Hall							
					SITE REF:	0							
					SERIAL NO:	0							

Customer Connections

101 - SUPPLY DUCT TEMPERATURE SENSOR
 207 - REMOTE PANEL ENABLE SWITCH
 208 - 24VDC FIRE ALARM SHUTDOWN SIGNAL
 209 - 24VDC FIRE ALARM SHUTDOWN SIGNAL
 227 - MODULATED 0-10V HEATING DEMAND OUTPUT TO CONTROL LPHW VALVE
 405 - HEATING RUN FOR LPHW BOILER/PUMP
 406 - HEATING RUN FOR LPHW BOILER/PUMP
 409 - COMMON TRIP INDICATION
 410 - COMMON TRIP INDICATION

Pre-wired items

102 - RETURN AIR TEMPERATURE SENSOR
 103 - FRESH AIR TEMPERATURE SENSOR
 105 - LPHW HEATING COIL SENSOR FITTED ON THE LPHW COIL
 210 - FAN SPEED INPUT
 221 - SUPPLY MAIN FILTER DIFFERENTIAL PRESSURE SWITCH INPUT
 222 - SUPPLY PRE FILTER DIFFERENTIAL PRESSURE SWITCH INPUT
 223 - EXTRACT MAIN FILTER DIFFERENTIAL PRESSURE SWITCH INPUT
 224 - EXTRACT PRE FILTER DIFFERENTIAL PRESSURE SWITCH INPUT
 231 - FRESH AIR DAMPER CONTROL
 232 - SUPPLY AIRFLOW PRESSURE SWITCH
 233 - SUPPLY FAN TRIP
 234 - SUPPLY FAN SPEED
 238 - EXHAUST AIR DAMPER CONTROL
 239 - EXTRACT AIRFLOW PRESSURE SWITCH
 240 - EXTRACT AIRFLOW PRESSURE SWITCH
 241 - EXTRACT FAN TRIP
 242 - EXTRACT FAN SPEED
 255 - ENERGY RECOVERY 0-10V OUTPUT TO CONTROL HEATWHEEL
 256 - HEATWHEEL TRIP INPUT
 401 - SUPPLY FAN ENABLE
 402 - SUPPLY FAN ENABLE
 403 - EXTRACT FAN ENABLE
 404 - EXTRACT FAN ENABLE
 407 - HEATWHEEL ENERGY RECOVERY RUN OUTPUT
 408 - HEATWHEEL ENERGY RECOVERY RUN OUTPUT
 501 - SUPPLY FAN MOTOR
 502 - SUPPLY FAN MOTOR
 503 - SUPPLY FAN MOTOR
 504 - EXTRACT FAN MOTOR
 505 - EXTRACT FAN MOTOR
 506 - EXTRACT FAN MOTOR
 512 - POWER SUPPLY FOR HEATWHEEL
 513 - POWER SUPPLY FOR HEATWHEEL

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