



Air handling Units – Technical Submittal (TSM)

Project: Manchester Metropolitan University – Institute of Sports
Project No: MC1136
TSM No: 1918-AME-XX-XX-TS-M-0013
Revision: A

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CARBONCONSULTANTS



ameon

Building Services Engineering

PROJECT DETAILS			
Project No	Revision	Date	Customer
14970	D	09 Jun 2020	Ameon
Unit No	Project Reference	AHU Reference	Quantity
1	MMU Institute Of Sports	AHU 1	1
Supply Air Flow	Supply ESP	Extract Air Flow	Extract ESP
5.99 m³/s	425 Pa	5.74 m³/s	405 Pa

SPECIFIC FAN POWER				
AHU SFP kW/(m³/s)	Supply Absorbed (kW)	Extract Absorbed (kW)	Overall (kW)	Filter Condition
1.99	5.78	4.34	10.12	Clean

UNIT CONSTRUCTION		
Unit location	Roof Type	Panel External Sheet
External	50mm Apex Roof (>1700mm)	0.7mm Plastisol goosewing grey
Frame Material	Frame Profile	Panel Thickness/Insulation
Aluminium	50mm profile	FG50
Base Construction	Base Height	Panel Internal Steel
200 Galv 2.5 gauge	200 mm	0.9mm Galvanized Steel
Access Side	Unit Model	Leakage Class
Right	AHTW 2100-5050-FG-WP	L2
Flow Arrangement	Unit Arrangement	
Opposite	Double deck	

AHU OVERALL UNIT DIMENSIONS AND WEIGHT - Unit supplied in one section unless otherwise agreed			
Length	Width	Height	Weight (Per Unit)
6190 mm	2750 mm	3050 mm	3034 kg

SECTION DIMENSIONS AND WEIGHT - Unit supplied in one section unless otherwise agreed				
Section	Length	Width	* Height	Weight
A	1985 mm	2750 mm	1450 mm	615 kg
B	535 mm	2750 mm	2800 mm	395 kg
C	3670 mm	2750 mm	1450 mm	1258 kg
D	650 mm	2750 mm	1350 mm	151 kg
E	1985 mm	2750 mm	1350 mm	615 kg

* The above section heights do not include possible inclusions for base frames and roofs (if fitted)

* This unit includes a 200 mm base and a 50 mm roof

SECTION A - INLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
Damper	5.99 m³/s	Internal	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION A - HEATING COIL						
Duty	Air Flow	Air On	Air Off	Water Flow	Water In/Out	Inlet/Outlet Connec
72.57 kW	5.99 m³/s	-5.00 °C	5.0 °C	.89 l/s	80.00 / 60.00 °C	1x 1¼" / 1x 1¼"
Fluid PD	Fin Material	Fin Spacing	Tube Material	Frame Material	Face Velocity	Connection Type
11 kPa	Aluminium	6.35mm (4/inch)	Copper	Galvanised	2.00 m/s	Screwed BSP
Internal Volume						
13.90 l						

SECTION A - PANEL FILTER					
Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Panel Filter	G4	50 mm	Side	Mean	1 Sets

ACCESSORIES

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

Light Switch

Access Porthole Fitted

Removable Door

SECTION A - BAG FILTER

Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Bag Filter	F8	380 mm	Rear	Mean	1 Sets

ACCESSORIES

Magnehelic gauge fitted

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

Access Porthole Fitted

Hinged Access Door

SECTION B - THERMAL WHEEL HEAT RECOVERY

Type	Material	Wheel Type	Purge
Heat Wheel Exchanger		Non-hygroscopic	

WINTER

Duty	Eff	Fresh Air		Exhaust Air		Duty	Eff	Fresh Air		Exhaust Air	
kW	%	Air On	Air Off	Air On	Air Off	kW	%	Air On	Air Off	Air On	Air Off
97	75	5.00 °C	16.9 °C	21.00 °C	8.9 °C	-33	73	30.00 °C	25.6 °C	24.00 °C	28.6 °C

SUMMER

ACCESSORIES

Thermal Wheel Variable Speed

Removable Door

SECTION C - SUPPLY PLENUM FAN

Fan Type	Wheel Type		Drive Type					
Plenum	Plenum fan BC AC Motor		Direct Drive					
Model	Impeller Diam.		Abs Power per fan					
GMEB-1-04-063-5570	686 mm		3.35 kW					
Quantity	Duty % Per Fan		Poles					
2	Dual Fan (50%-50%)		TBA					
Air Flow Volume	Outlet Velocity		Motor Speed					
5.99 m³/s	2.5 m/s		1460 rpm					
Ext Static Pressure	Fan Speed		Power per motor					
425.00 Pa	1513 rpm		5.50 kW					
Unit Static Pressure	Static Efficiency		FLC per motor					
403.00 Pa	74.17 %		11.00 A					
Fan Static Pressure	VSD		Volts/Ph/Hz					
828 Pa	Inverter By Others		380/3/50					
IE Classification	Operating Frequency		Max Oper Freq					
WithFan	51.84 Hz		60.77 Hz					
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz
Inlet (1)	74	88	85	76	73	75	68	63
Outlet (2)	70	78	78	79	77	76	72	68

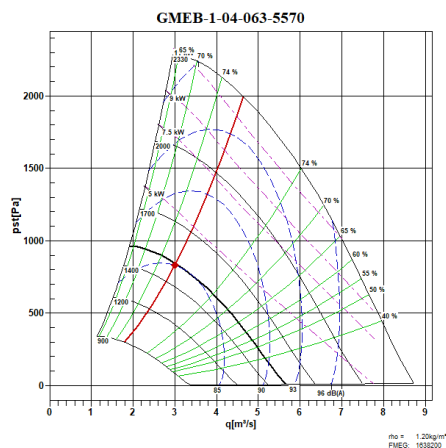
GMEB-1-04-063-5570

The graph displays the relationship between static pressure (ps) on the y-axis (0 to 2000 Pa) and air flow rate (q) on the x-axis (1 to 9 m³/s). It includes efficiency curves for 74%, 70%, 65%, 55%, and 40% duty. Power curves for 3.35 kW, 5 kW, 7.5 kW, and 9 kW are also shown. A red line indicates the operating point at approximately 425 Pa and 5.99 m³/s.

ps[Pa]

q[m³/s]

no. n 1200rpm
PNEG 103200



(1) SWL INSIDE The Inlet Duct (dB)

(2) SWL INSIDE The Outlet Duct (dB)

ACCESSORIES

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

25 Amp pre-wired external isolator(s).

25 Amp pre-wired external isolator(s).

Door guard will be provided.

Inlet flex connection will be provided.

Inverter Efficiency Included For SFP Calculation.

Access Porthole Fitted

Removable Door

SECTION C - PLENUM

Dimension	500 mm	Type	Plenum Section
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ACCESSORIES

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

Access Porthole Fitted

Hinged Access Door

SECTION C - COOLING COIL						
Duty	Air Flow	Air On db/wb	Air Off db/wb	Water In	Water Out	Water Flow
128.52 kW	5.99 m³/s	30.00/22.00 °C	18.0/16.5 °C	6.00 °C	12.00 °C	5.11 l/s
Fluid PD	Glycol Type	Glycol %	Fin Material	Fin Spacing	Tube Material	Frame Material
15 kPa	None	0	Aluminium	2.54mm (10/inch)	Copper	Galvanised
Coil Type	Eliminator	Face Velocity	Inlet Connection	Outlet Connection	Connection Type	Internal Volume
Cooling	not needed BUT fit P400	2.20 m/s	1x 2½"	1x 2½"	Screwed BSP	41.50 l
Drain Pan						
Material		Galvanized		Drain Tray Type		With Coil Fixed Slope
Coil Panel						

SECTION C - PLENUM			
Dimension	500 mm	Type	Plenum Section
ACCESSORIES			
200mm diameter double glazed view port			
Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.			
Access Porthole Fitted			
Hinged Access Door			

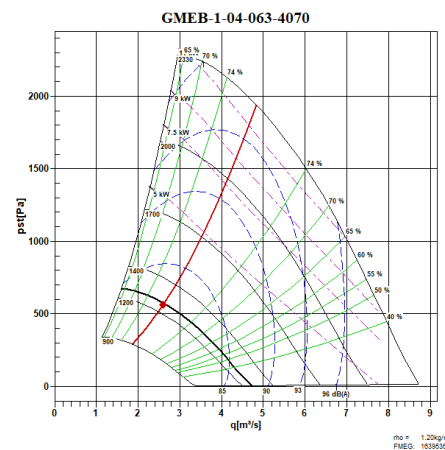
SECTION C - HEATING COIL						
Duty	Air Flow	Air On	Air Off	Water Flow	Water In/Out	Inlet/Outlet Connec
116.11 kW	5.99 m³/s	5.00 °C	21.0 °C	1.42 l/s	80.00 / 60.00 °C	1x 1½" / 1x 1½"
Fluid PD	Fin Material	Fin Spacing	Tube Material	Frame Material	Face Velocity	Connection Type
7 kPa	Aluminium	2.54mm (10/inch)	Copper	Galvanised	2.00 m/s	Screwed BSP
Internal Volume						
15.00 l						

SECTION C - OUTLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
None	5.99 m³/s	None	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION D - INLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
None	5.74 m³/s	None	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION D - PANEL FILTER					
Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Panel Filter	G4	50 mm	Side	Mean	1 Sets
ACCESSORIES					
Magnehelic gauge fitted					
200mm diameter double glazed view port					
Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.					
Access Porthole Fitted					
Removable Door					

SECTION E - EXTRACT PLENUM FAN

Fan Type	Wheel Type	Drive Type						
Plenum	Plenum fan BC AC Motor	Direct Drive						
Model	Impeller Diam.	Abs Power per fan						
GMEB-1-04-063-4070	686 mm	2.34 kW						
Quantity	Duty % Per Fan	Poles						
2	Dual Fan (50%-50%)	TBA						
Air Flow Volume	Outlet Velocity	Motor Speed						
5.74 m³/s	2.6 m/s	1450 rpm						
Ext Static Pressure	Fan Speed	Power per motor						
405.00 Pa	1335 rpm	4.00 kW						
Unit Static Pressure	Static Efficiency	FLC per motor						
199.00 Pa	74.60 %	8.23 A						
Fan Static Pressure	VSD	Volts/Ph/Hz						
604 Pa	Inverter By Others	380/3/50						
IE Classification	Operating Frequency	Max Oper Freq						
WithFan	46.06 Hz	55.03 Hz						
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz
Inlet (1)	71	85	82	73	70	72	65	60
Outlet (2)	67	75	75	76	74	73	69	65
(1) SWL INSIDE The Inlet Duct (dB)				(2) SWL INSIDE The Outlet Duct (dB)				

ACCESSORIES

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

25 Amp pre-wired external isolator(s).

25 Amp pre-wired external isolator(s).

Door guard will be provided.

Inlet flex connection will be provided.

Inverter Efficiency Included For SFP Calculation.

Access Porthole Fitted

Removable Door

SECTION E - OUTLET SECTION

Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
Damper	5.74 m³/s	Internal	Standard	Opposed	Motorisation By Others	50mm Spigot

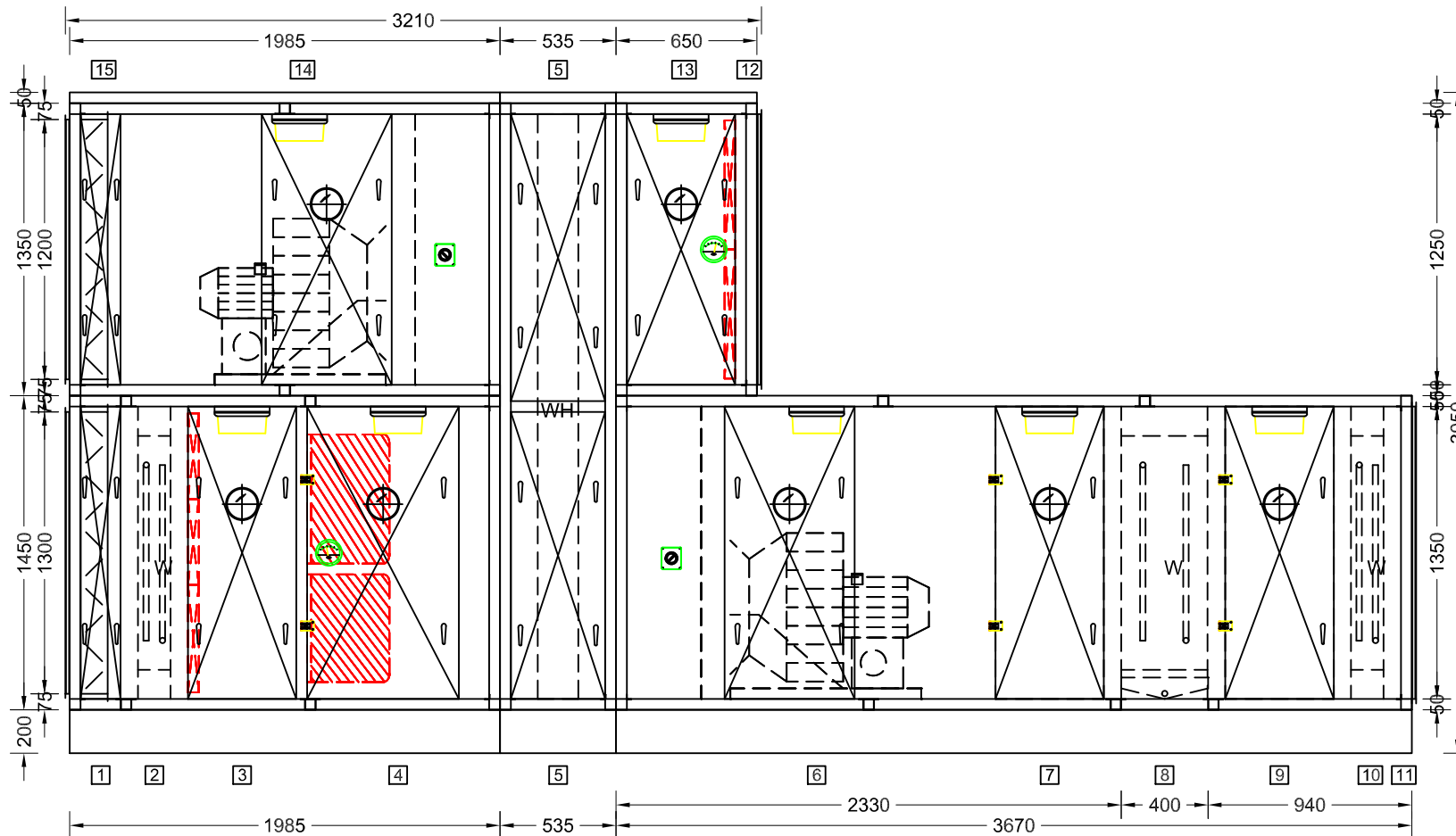
AHU ACOUSTIC DATA SUPPLY SECTIONS

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Overall dB(A)
SWL @ AHU Inlet (dB)	69	81	76	66	63	60	51	38	72
SWL @ AHU Outlet (dB)	68	75	72	73	74	69	64	53	77
Case Radiated SPL @ 1m (dB)	54	66	47	36	32	39	29	19	51

AHU ACOUSTIC DATA EXHAUST SECTIONS

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Overall dB(A)
SWL @ AHU Inlet (dB)	69	80	76	68	63	67	58	49	73
SWL @ AHU Outlet (dB)	68	74	72	74	74	73	70	66	79
Case Radiated SPL @ 1m (dB)	48	53	38	36	33	37	30	21	42

IF IN DOUBT ASK! NOT TO SCALE



Section A: Weight = 615Kgs

Components

- 1 Inlet Section
- 2 LPHW Heater
- 3 Panel Filter
- 4 Bag Filter

Section B: Weight = 395Kgs

Components

- 5 Heat Wheel

Section C: Weight = 1258Kgs

Components

- 6 Plenum Fan
- 7 Plenum
- 8 CW Coil
- 9 Plenum
- 10 LPHW Heater
- 11 Outlet Section

Section D: Weight = 151Kgs

Components

- 12 Inlet Section
- 13 Panel Filter

Section E: Weight = 615Kgs

Components

- 14 Plenum Fan
- 15 Outlet Section

ELEVATION

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT: Ameen

Project: MMU Institute Of Sports

Quote No.:

DRAWN

CHECKED

DATE

TITLE:

AHU 1

REFERENCE:

AHTW 2100-5050-FG-WP

DWG. No. 14970-1-D

Air flow	5.99/5.74	m ³ /s
Quantity	1	Nos.

REV.	No.	Revision	Date

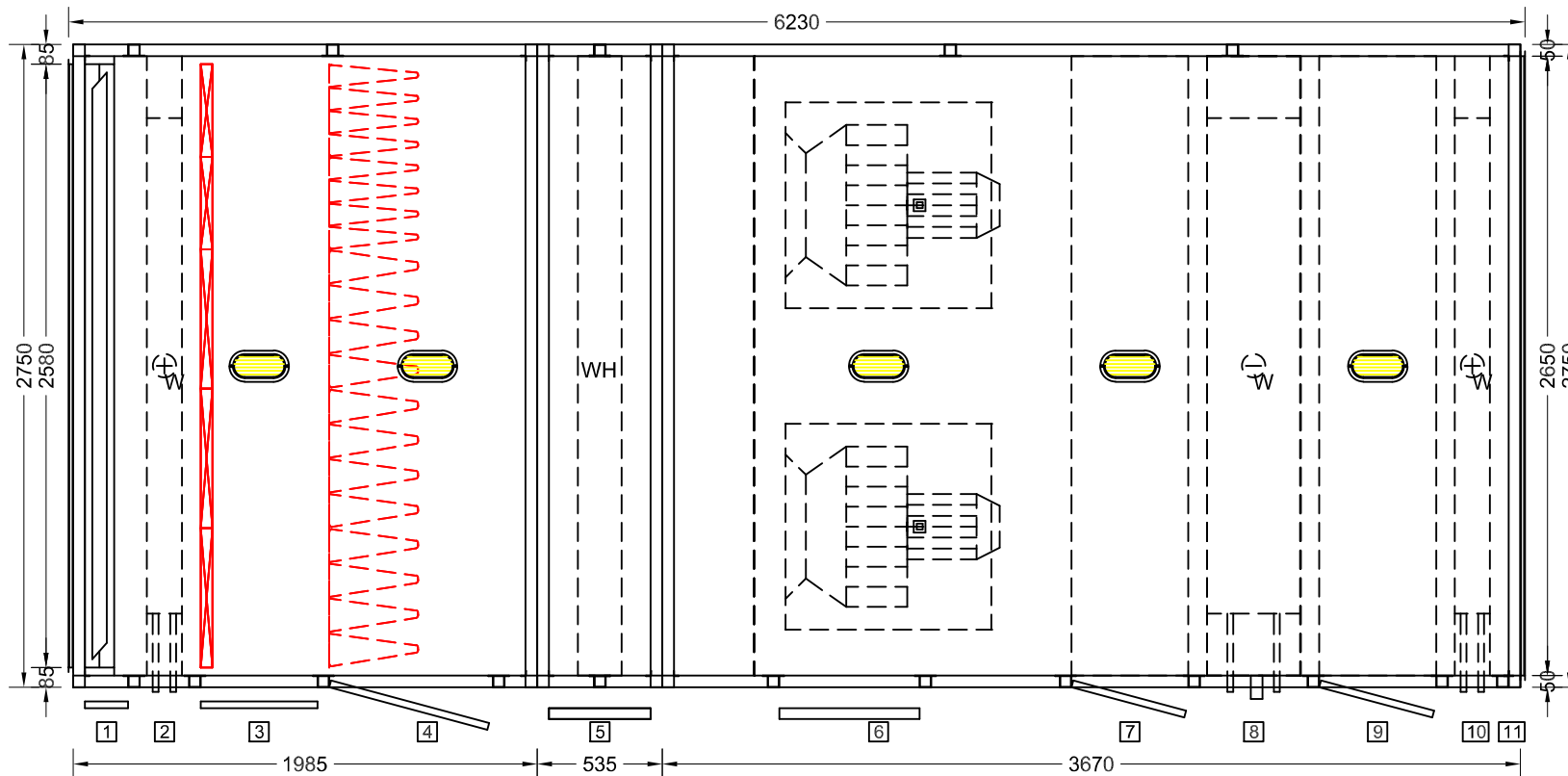


(NORTHERN) LIMITED

Tel: (0161) 745 8888 / Fax: (0161) 925 9900

Email: sales@airhandlers.net

IF IN DOUBT ASK! NOT TO SCALE



Section A: Weight = 615Kgs

Components

- 1 Inlet Section
- 2 LPHW Heater
- 3 Panel Filter
- 4 Bag Filter

Section B: Weight = 395Kgs

Components

- 5 Heat Wheel

Section C: Weight = 1258Kgs

Components

- 6 Plenum Fan
- 7 Plenum
- 8 CW Coil
- 9 Plenum
- 10 LPHW Heater
- 11 Outlet Section

Section D: Weight = 151Kgs

Components

- 12 Inlet Section
- 13 Panel Filter

Section E: Weight = 615Kgs

Components

- 14 Plenum Fan
- 15 Outlet Section

PLAN LOWER DECK

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT: Ameen

Project: MMU Institute Of Sports

Quote No.:

DRAWN

CHECKED

DATE

TITLE: AHU 1

REFERENCE: AHTW 2100-5050-FG-WP

DWG. No. 14970-1-D

Air flow	5.99/5.74	m3/s
Quantity	1	Nos.

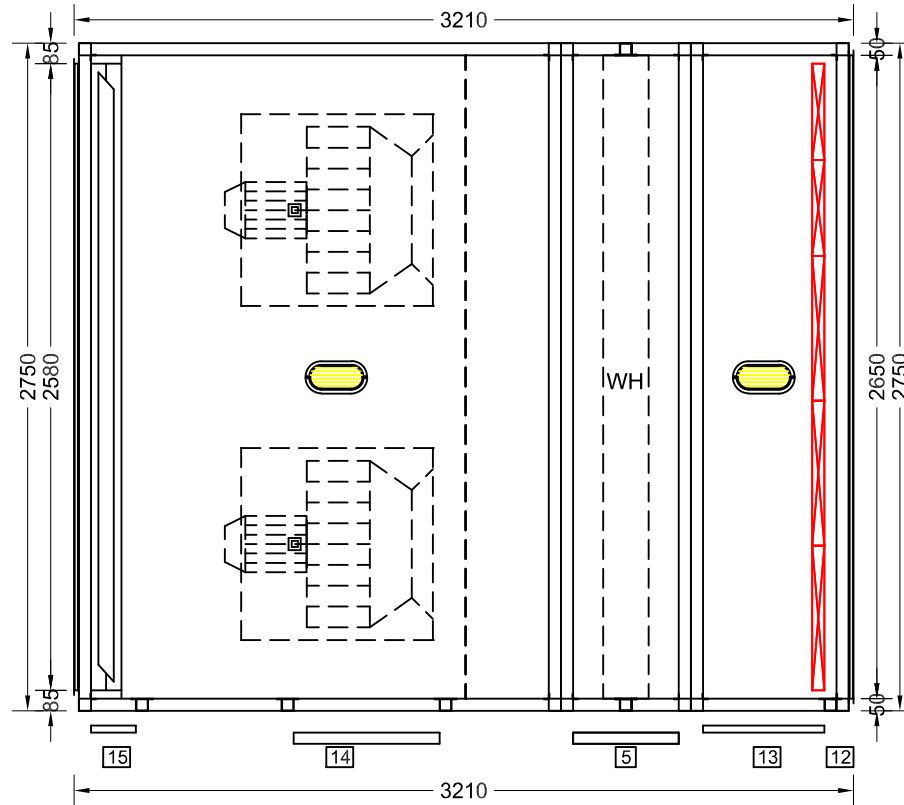
REV.	No.	Revision	Date



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Email: sales@airhandlers.net

IF IN DOUBT ASK! NOT TO SCALE



PLAN UPPER DECK

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT: Ameen

Project: MMU Institute Of Sports

Quote No.:

DRAWN

CHECKED

DATE

TITLE:

AHU 1

REFERENCE:

AHTW 2100-5050-FG-WP

DWG. No. 14970-1-D

Air flow	5.99/5.74	m3/s
Quantity	1	Nos.

REV.	No.	Revision	Date

Section A: Weight = 615Kgs

Components

- 1 Inlet Section
- 2 LPHW Heater
- 3 Panel Filter
- 4 Bag Filter

Section B: Weight = 395Kgs

Components

- 5 Heat Wheel

Section C: Weight = 1258Kgs

Components

- 6 Plenum Fan
- 7 Plenum
- 8 CW Coil
- 9 Plenum
- 10 LPHW Heater
- 11 Outlet Section

Section D: Weight = 151Kgs

Components

- 12 Inlet Section
- 13 Panel Filter

Section E: Weight = 615Kgs

Components

- 14 Plenum Fan
- 15 Outlet Section



(NORTHERN) LIMITED

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Email: sales@airhandlers.net

PROJECT DETAILS			
Project No	Revision	Date	Customer
14970	D	09 Jun 2020	Ameon
Unit No	Project Reference	AHU Reference	Quantity
2	MMU Institute Of Sports	AHU 2	1
Supply Air Flow	Supply ESP	Extract Air Flow	Extract ESP
5.49 m³/s	330 Pa	5.21 m³/s	350 Pa

SPECIFIC FAN POWER				
AHU SFP kW/(m³/s)	Supply Absorbed (kW)	Extract Absorbed (kW)	Overall (kW)	Filter Condition
1.81	4.72	3.7	8.42	Clean

UNIT CONSTRUCTION		
Unit location	Roof Type	Panel External Sheet
External	50mm Apex Roof (>1700mm)	0.7mm Plastisol goosewing grey
Frame Material	Frame Profile	Panel Thickness/Insulation
Aluminium	50mm profile	FG50
Base Construction	Base Height	Panel Internal Steel
200 Galv 2.5 gauge	200 mm	0.9mm Galvanized Steel
Access Side	Unit Model	Leakage Class
Left	AHTW 2050-5050-FG-WP	L2
Flow Arrangement	Unit Arrangement	
Opposite	Double deck	

AHU OVERALL UNIT DIMENSIONS AND WEIGHT - Unit supplied in one section unless otherwise agreed			
Length	Width	Height	Weight (Per Unit)
6190 mm	2750 mm	2950 mm	3235 kg

SECTION DIMENSIONS AND WEIGHT - Unit supplied in one section unless otherwise agreed				
Section	Length	Width	* Height	Weight
A	1985 mm	2750 mm	1350 mm	597 kg
B	535 mm	2750 mm	2700 mm	631 kg
C	3670 mm	2750 mm	1350 mm	1241 kg
D	650 mm	2750 mm	1350 mm	151 kg
E	1985 mm	2750 mm	1350 mm	615 kg

* The above section heights do not include possible inclusions for base frames and roofs (if fitted)

* This unit includes a 200 mm base and a 50 mm roof

SECTION A - INLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
Damper	5.49 m³/s	Internal	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION A - HEATING COIL						
Duty	Air Flow	Air On	Air Off	Water Flow	Water In/Out	Inlet/Outlet Connec
66.51 kW	5.49 m³/s	-5.00 °C	5.0 °C	.81 l/s	80.00 / 60.00 °C	1x 1¼" / 1x 1¼"
Fluid PD	Fin Material	Fin Spacing	Tube Material	Frame Material	Face Velocity	Connection Type
5 kPa	Aluminium	6.35mm (4/inch)	Copper	Galvanised	2.00 m/s	Screwed BSP
Internal Volume						
12.80 l						

SECTION A - PANEL FILTER					
Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Panel Filter	G4	50 mm	Side	Mean	1 Sets

ACCESSORIES

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

Light Switch

Access Porthole Fitted

Removable Door

SECTION A - BAG FILTER

Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Bag Filter	F8	380 mm	Rear	Mean	1 Sets

ACCESSORIES

Magnehelic gauge fitted
 200mm diameter double glazed view port
 Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.
 Access Porthole Fitted
Hinged Access Door

SECTION B - THERMAL WHEEL HEAT RECOVERY

Type	Material	Wheel Type	Purge
Heat Wheel Exchanger		Non-hygroscopic	

WINTER						SUMMER					
Duty	Eff	Fresh Air		Exhaust Air		Duty	Eff	Fresh Air		Exhaust Air	
kW	%	Air On	Air Off	Air On	Air Off	kW	%	Air On	Air Off	Air On	Air Off
97	79	5.00 °C	17.6 °C	21.00 °C	8.2 °C	-31	76	30.00 °C	25.4 °C	24.00 °C	28.8 °C

ACCESSORIES

Thermal Wheel Variable Speed
Removable Door

SECTION C - SUPPLY PLENUM FAN

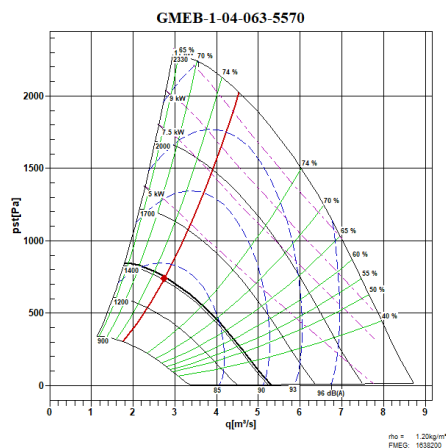
Fan Type	Wheel Type		Drive Type					
Plenum	Plenum fan BC AC Motor		Direct Drive					
Model	Impeller Diam.		Abs Power per fan					
GMEB-1-04-063-5570	686 mm		2.74 kW					
Quantity	Duty % Per Fan		Poles					
2	Dual Fan (50%-50%)		TBA					
Air Flow Volume	Outlet Velocity		Motor Speed					
5.49 m³/s	2.5 m/s		1460 rpm					
Ext Static Pressure	Fan Speed		Power per motor					
330.00 Pa	1417 rpm		5.50 kW					
Unit Static Pressure	Static Efficiency		FLC per motor					
405.00 Pa	73.95 %		11.00 A					
Fan Static Pressure	VSD		Volts/Ph/Hz					
735 Pa	Inverter By Others		380/3/50					
IE Classification	Operating Frequency		Max Oper Freq					
WithFan	48.54 Hz		60.77 Hz					
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz
Inlet (1)	74	87	83	75	72	74	67	61
Outlet (2)	70	77	76	77	76	75	70	66

GMEB-1-04-063-5570

ps[Pa]

q[m³/s]

no. n 1200rpm
PNEG 1030200



(1) SWL INSIDE The Inlet Duct (dB)

(2) SWL INSIDE The Outlet Duct (dB)

ACCESSORIES

200mm diameter double glazed view port
 Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.
 25 Amp pre-wired external isolator(s).
 25 Amp pre-wired external isolator(s).
 Door guard will be provided.
 Inlet flex connection will be provided.
 Inverter Efficiency Included For SFP Calculation.
 Access Porthole Fitted
Removable Door

SECTION C - PLENUM

Dimension	500 mm	Type	Plenum Section
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ACCESSORIES

200mm diameter double glazed view port
 Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.
 Access Porthole Fitted
Hinged Access Door

SECTION C - COOLING COIL						
Duty	Air Flow	Air On db/wb	Air Off db/wb	Water In	Water Out	Water Flow
117.70 kW	5.49 m³/s	30.00/22.00 °C	18.0/16.5 °C	6.00 °C	12.00 °C	4.68 l/s
Fluid PD	Glycol Type	Glycol %	Fin Material	Fin Spacing	Tube Material	Frame Material
13 kPa	None	0	Aluminium	2.54mm (10/inch)	Copper	Galvanised
Coil Type	Eliminator	Face Velocity	Inlet Connection	Outlet Connection	Connection Type	Internal Volume
Cooling	not needed BUT fit P400	2.20 m/s	1x 2½"	1x 2½"	Screwed BSP	38.30 l
Drain Pan						
Material		Galvanized		Drain Tray Type		With Coil Fixed Slope
Coil Panel						

SECTION C - PLENUM			
Dimension	500 mm	Type	Plenum Section
ACCESSORIES			
200mm diameter double glazed view port			
Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.			
Access Porthole Fitted			
Hinged Access Door			

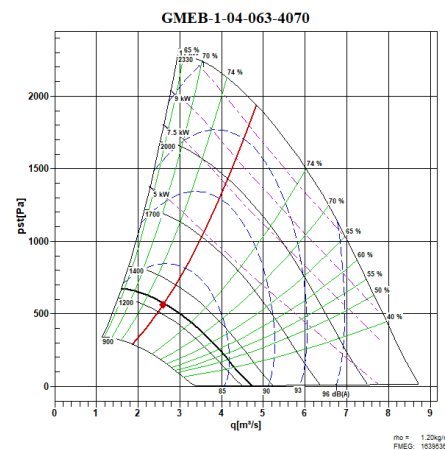
SECTION C - HEATING COIL						
Duty	Air Flow	Air On	Air Off	Water Flow	Water In/Out	Inlet/Outlet Connec
106.42 kW	5.49 m³/s	5.00 °C	21.0 °C	1.3 l/s	80.00 / 60.00 °C	1x 1½" / 1x 1½"
Fluid PD	Fin Material	Fin Spacing	Tube Material	Frame Material	Face Velocity	Connection Type
6 kPa	Aluminium	2.54mm (10/inch)	Copper	Galvanised	2.00 m/s	Screwed BSP
Internal Volume						
13.80 l						

SECTION C - OUTLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
None	5.49 m³/s	None	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION D - INLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
None	5.21 m³/s	None	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION D - PANEL FILTER					
Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Panel Filter	G4	50 mm	Side	Mean	1 Sets
ACCESSORIES					
Magnehelic gauge fitted					
200mm diameter double glazed view port					
Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.					
Access Porthole Fitted					
Removable Door					

SECTION E - EXTRACT PLENUM FAN

Fan Type	Wheel Type	Drive Type						
Plenum	Plenum fan BC AC Motor	Direct Drive						
Model	Impeller Diam.	Abs Power per fan						
GMEB-1-04-063-4070	686 mm	1.97 kW						
Quantity	Duty % Per Fan	Poles						
2	Dual Fan (50%-50%)	TBA						
Air Flow Volume	Outlet Velocity	Motor Speed						
5.21 m³/s	2.4 m/s	1450 rpm						
Ext Static Pressure	Fan Speed	Power per motor						
350.00 Pa	1264 rpm	4.00 kW						
Unit Static Pressure	Static Efficiency	FLC per motor						
211.00 Pa	74.46 %	8.23 A						
Fan Static Pressure	VSD	Volts/Ph/Hz						
561 Pa	Inverter By Others	380/3/50						
IE Classification	Operating Frequency	Max Oper Freq						
WithFan	43.62 Hz	55.03 Hz						
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz
Inlet (1)	70	84	81	72	69	71	64	59
Outlet (2)	66	74	74	75	73	72	68	64
(1) SWL INSIDE The Inlet Duct (dB)				(2) SWL INSIDE The Outlet Duct (dB)				

ACCESSORIES

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

25 Amp pre-wired external isolator(s).

25 Amp pre-wired external isolator(s).

Door guard will be provided.

Inlet flex connection will be provided.

Inverter Efficiency Included For SFP Calculation.

Access Porthole Fitted

Removable Door

SECTION E - OUTLET SECTION

Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
Damper	5.21 m³/s	Internal	Standard	Opposed	Motorisation By Others	50mm Spigot

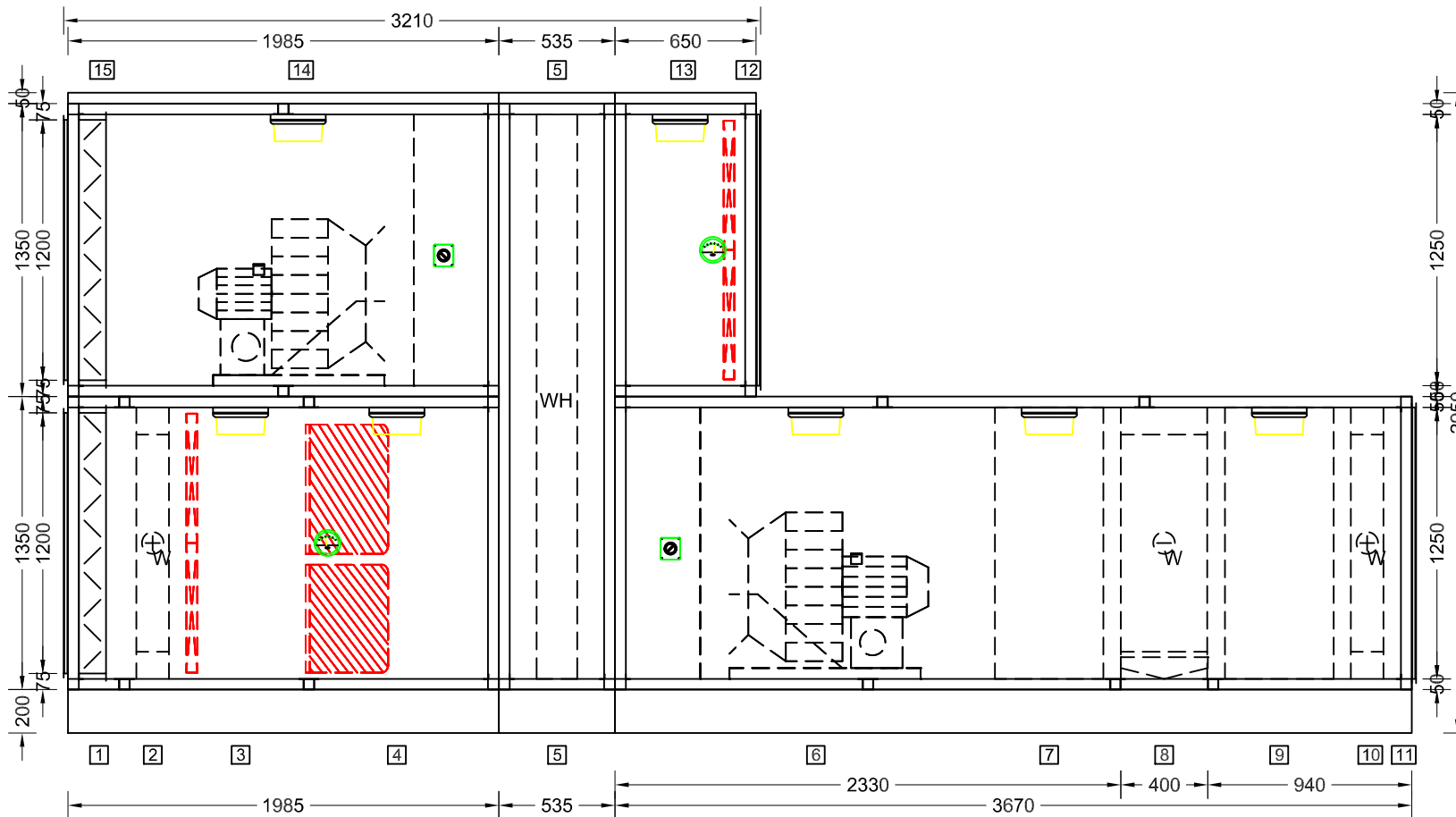
AHU ACOUSTIC DATA SUPPLY SECTIONS

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Overall dB(A)
SWL @ AHU Inlet (dB)	69	80	74	65	62	59	50	36	70
SWL @ AHU Outlet (dB)	68	74	70	71	73	68	62	51	76
Case Radiated SPL @ 1m (dB)	50	55	39	37	34	38	31	21	44

AHU ACOUSTIC DATA EXHAUST SECTIONS

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Overall dB(A)
SWL @ AHU Inlet (dB)	68	79	75	67	62	66	57	48	72
SWL @ AHU Outlet (dB)	67	73	71	73	73	72	69	65	78
Case Radiated SPL @ 1m (dB)	46	52	36	35	32	36	29	20	41

IF IN DOUBT ASK! NOT TO SCALE



Section A: Weight = 597Kgs

Components

- 1 Inlet Section
- 2 LPHW Heater
- 3 Panel Filter
- 4 Bag Filter

Section B: Weight = 631Kgs

Components

- 5 Heat Wheel

Section C: Weight = 1241Kgs

Components

- 6 Plenum Fan
- 7 Plenum
- 8 CW Coil
- 9 Plenum
- 10 LPHW Heater
- 11 Outlet Section

Section D: Weight = 151Kgs

Components

- 12 Inlet Section
- 13 Panel Filter

Section E: Weight = 615Kgs

Components

- 14 Plenum Fan
- 15 Outlet Section

ELEVATION

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT: Ameen

Project: MMU Institute Of Sports

Quote No.:

DRAWN

CHECKED

DATE

TITLE:

AHU 2

REFERENCE:

AHTW 2050-5050-FG-WP

DWG. No. 14970-2-D

Air flow	5.49/5.21	m3/s
Quantity	1	Nos.

REV.	No.	Revision	Date

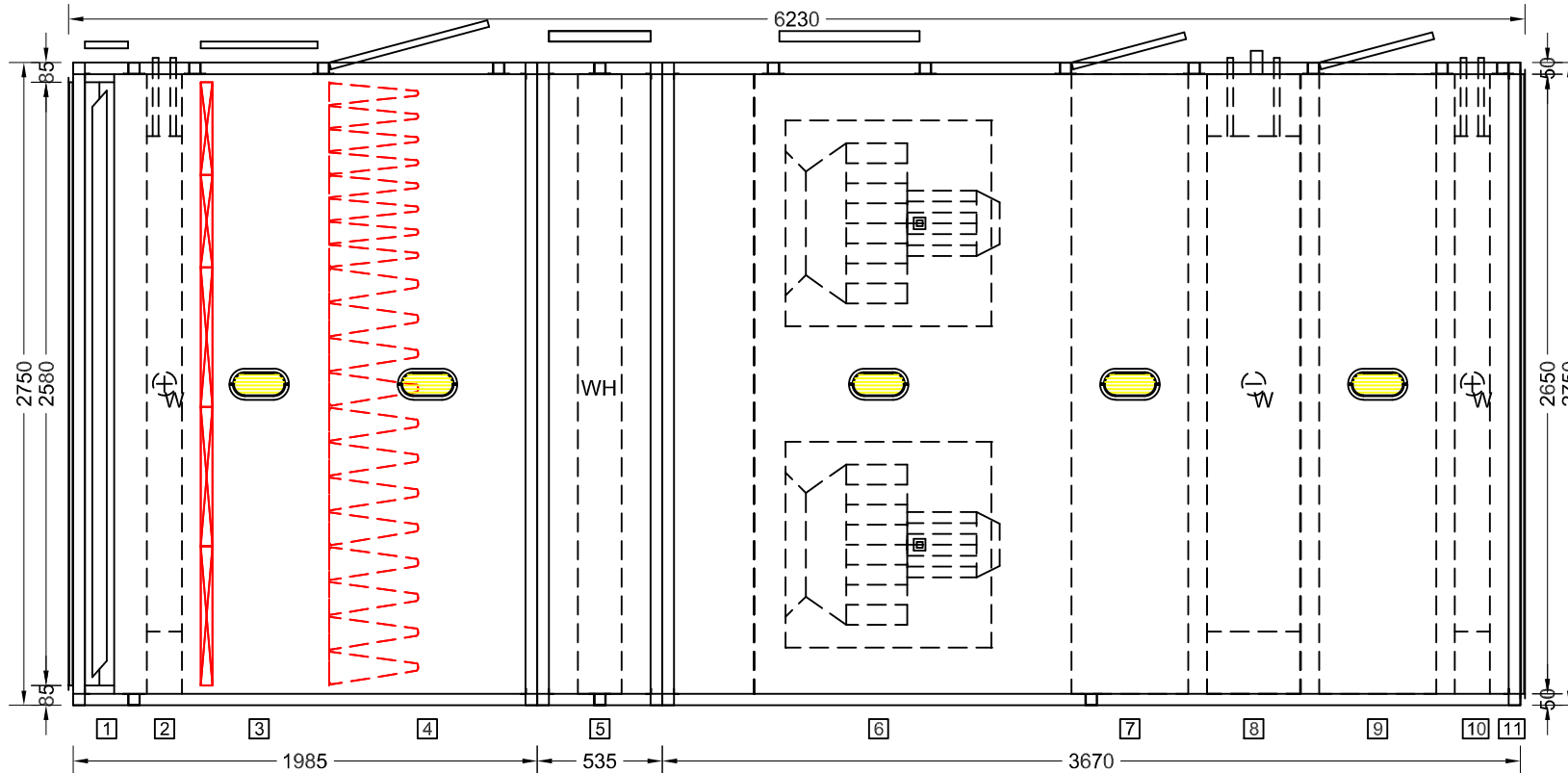


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Tel: (0161) 745 8888 / Fax: (0161) 925 9900

Email: sales@airhandlers.net

IF IN DOUBT ASK! NOT TO SCALE



Section A: Weight = 597Kgs

Components

- 1 Inlet Section
- 2 LPHW Heater
- 3 Panel Filter
- 4 Bag Filter

Section B: Weight = 631Kgs

Components

- 5 Heat Wheel

Section C: Weight = 1241Kgs

Components

- 6 Plenum Fan
- 7 Plenum
- 8 CW Coil
- 9 Plenum
- 10 LPHW Heater
- 11 Outlet Section

Section D: Weight = 151Kgs

Components

- 12 Inlet Section
- 13 Panel Filter

Section E: Weight = 615Kgs

Components

- 14 Plenum Fan
- 15 Outlet Section

PLAN LOWER DECK

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT: Ameen

Project: MMU Institute Of Sports

Quote No.:

DRAWN

CHECKED

DATE

TITLE:

AHU 2

REFERENCE:

AHTW 2050-5050-FG-WP

DWG. No. 14970-2-D

Air flow	5.49/5.21	m3/s
Quantity	1	Nos.

REV.

No.	Revision	Date

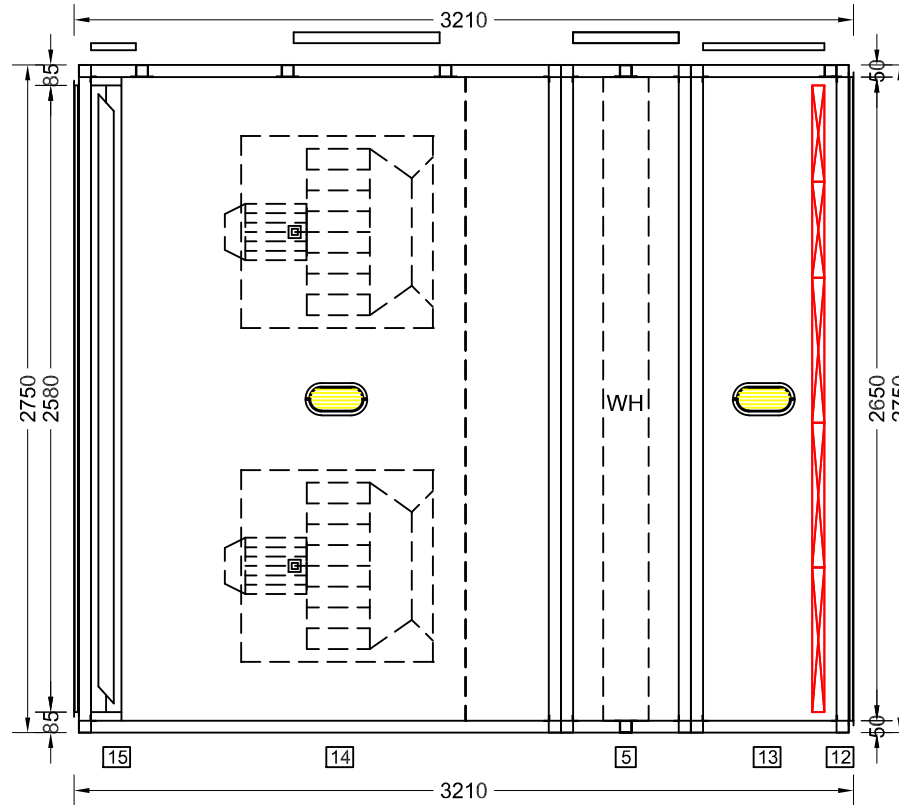


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IF IN DOUBT ASK! NOT TO SCALE



PLAN UPPER DECK

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT: Ameen

Project: MMU Institute Of Sports

Quote No.:

DRAWN

CHECKED

DATE

TITLE:

AHU 2

REFERENCE:

AHTW 2050-5050-FG-WP

DWG. No. 14970-2-D

Air flow	5.49/5.21	m3/s
Quantity	1	Nos.

REV.

No.	Revision	Date

Section A: Weight = 597Kgs

Components

- 1 Inlet Section
- 2 LPHW Heater
- 3 Panel Filter
- 4 Bag Filter

Section B: Weight = 631Kgs

Components

- 5 Heat Wheel

Section C: Weight = 1241Kgs

Components

- 6 Plenum Fan
- 7 Plenum
- 8 CW Coil
- 9 Plenum
- 10 LPHW Heater
- 11 Outlet Section

Section D: Weight = 151Kgs

Components

- 12 Inlet Section
- 13 Panel Filter

Section E: Weight = 615Kgs

Components

- 14 Plenum Fan
- 15 Outlet Section



(NORTHERN) LIMITED

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Email: sales@airhandlers.net

PROJECT DETAILS			
Project No	Revision	Date	Customer
14970	D	01 Jul 2020	Ameon
Unit No	Project Reference	AHU Reference	Quantity
3	MMU Institute Of Sports	AHU 3	1
Supply Air Flow	Supply ESP	Extract Air Flow	Extract ESP
.71 m³/s	195 Pa	.71 m³/s	195 Pa

SPECIFIC FAN POWER				
AHU SFP kW/(m³/s)	Supply Absorbed (kW)	Extract Absorbed (kW)	Overall (kW)	Filter Condition
1.57	.5	.4	.9	Clean

UNIT CONSTRUCTION		
Unit location	Roof Type	Panel External Sheet
External	50mm Apex Roof (>1700mm)	0.7mm Plastisol goosewing grey
Frame Material	Frame Profile	Panel Thickness/Insulation
Aluminium	50mm profile	FG50
Base Construction	Base Height	Panel Internal Steel
200 Galv 2.5 gauge	200 mm	0.9mm Galvanized Steel
Access Side	Unit Model	Leakage Class
Right	AHPHX 900-5050-FG-WP	L2
Flow Arrangement	Unit Arrangement	
Opposite	Side by side	

AHU OVERALL UNIT DIMENSIONS AND WEIGHT - Unit supplied in one section unless otherwise agreed			
Length	Width	Height	Weight (Per Unit)
6415 mm	2000 mm	1050 mm	1393 kg

SECTION DIMENSIONS AND WEIGHT - Unit supplied in one section unless otherwise agreed				
Section	Length	Width	* Height	Weight
A	1645 mm	1000 mm	800 mm	225 kg
B	1980 mm	2000 mm	800 mm	485 kg
C	2790 mm	1000 mm	800 mm	412 kg
D	650 mm	1000 mm	800 mm	90 kg
E	1175 mm	1000 mm	800 mm	182 kg

* The above section heights do not include possible inclusions for base frames and roofs (if fitted)

* This unit includes a 200 mm base and a 50 mm roof

SECTION A - INLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
Damper	.71 m³/s	Internal	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION A - HEATING COIL						
Duty	Air Flow	Air On	Air Off	Water Flow	Water In/Out	Inlet/Outlet Connec
8.60 kW	.71 m³/s	-5.00 °C	5.0 °C	.1 l/s	80.00 / 60.00 °C	1x 1/2" / 1x 1/2"
Fluid PD	Fin Material	Fin Spacing	Tube Material	Frame Material	Face Velocity	Connection Type
4 kPa	Aluminium	6.35mm (4/inch)	Copper	Galvanised	1.80 m/s	Screwed BSP
Internal Volume						
1.80 l						

SECTION A - PANEL FILTER					
Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Panel Filter	G4	50 mm	Side	Mean	1 Sets

ACCESSORIES

Magnehelic gauge fitted

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

Access Porthole Fitted

Removable Door

SECTION A - BAG FILTER

Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Bag Filter	F8	380 mm	Rear	Mean	1 Sets

ACCESSORIES

Manometer fitted

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

Access Porthole Fitted

Hinged Access Door

SECTION B - PLATE HEAT EXCHANGER

Type	Material	Sup. Air Flow	Ext. Air Flow	Bypass Damper	Operation
Plate Heat Exchanger	Standard	.71 m³/s	.71 m³/s	1=Yes, on side	

WINTER

Duty	Eff	Fresh Air		Exhaust Air		Duty	Eff	Fresh Air		Exhaust Air	
kW	%	Air On	Air Off	Air On	Air Off	kW	%	Air On	Air Off	Air On	Air Off
18.60	83.00	-5.00 °C	16.60 °C	21.00 °C	5.10 °C						

SUMMER

ACCESSORIES

200mm diameter double glazed view port

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

Access Porthole Fitted

Drain Pan

Material	Galvanized	Drain Tray Type	Fixed Slope
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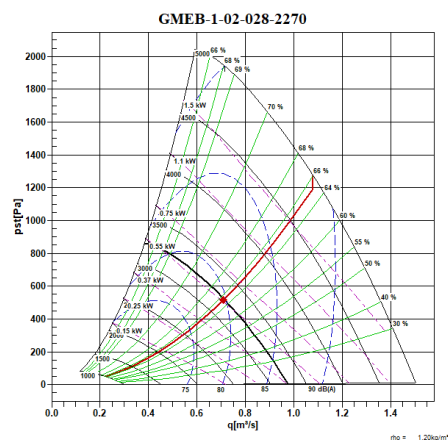
Removable Door

SECTION C - SUPPLY PLENUM FAN

Fan Type	Wheel Type		Drive Type					
Plenum	Plenum fan BC AC Motor		Direct Drive					
Model	Impeller Diam.		Abs Power per fan					
GMEB-1-02-028-2270	307 mm		0.57 kW					
Quantity	Duty % Per Fan		Poles					
1	Single Fan		TBA					
Air Flow Volume	Outlet Velocity		Motor Speed					
.71 m³/s	1.1 m/s		2890 rpm					
Ext Static Pressure	Fan Speed		Power per motor					
195.00 Pa	3247 rpm		2.20 kW					
Unit Static Pressure	Static Efficiency		FLC per motor					
322.56 Pa	64.71 %		4.60 A					
Fan Static Pressure	VSD		Volts/Ph/Hz					
518 Pa	Inverter		380/3/50					
IE Classification	Operating Frequency		Max Oper Freq					
WithFan	56.18 Hz		86.51 Hz					
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz
Inlet (1)	77	68	75	71	69	68	65	65
Outlet (2)	64	66	73	71	72	73	69	68
(1) SWL INSIDE The Inlet Duct (dB)					(2) SWL INSIDE The Outlet Duct (dB)			

GMEB-1-02-028-2270

The graph plots static pressure (pst) in Pascals (Pa) on the y-axis (0 to 2000) against air flow (q) in cubic meters per second (m³/s) on the x-axis (0.0 to 1.4). It features several sets of curves: green lines for duty percentages (55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%), blue lines for power levels (1.5 kW, 1.7 kW, 1.75 kW, 2.0 kW, 2.25 kW, 2.5 kW, 3.0 kW), and a red line for a specific operating point. A black dot is marked at approximately q = 0.6 m³/s and pst = 500 Pa. The graph also includes a small inset showing the relationship between motor speed (rpm) and air flow (m³/s).



ACCESSORIES

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

25 Amp pre-wired external isolator(s).

Door guard will be provided.

Inlet flex connection will be provided.

Inverter Efficiency Included For SFP Calculation.

Access Porthole Fitted

Removable Door

SECTION C - PLENUM			
Dimension	450 mm	Type	Plenum Section
ACCESSORIES			
200mm diameter double glazed view port			
Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.			
Access Porthole Fitted			
Hinged Access Door			

SECTION C - COOLING COIL						
Duty	Air Flow	Air On db/wb	Air Off db/wb	Water In	Water Out	Water Flow
15.87 kW	.71 m³/s	30.00/22.00 °C	18.0/16.3 °C	6.00 °C	12.00 °C	.63 l/s
Fluid PD	Glycol Type	Glycol %	Fin Material	Fin Spacing	Tube Material	Frame Material
21 kPa	None	0	Aluminium	3.18mm (8/inch)	Copper	Galvanised
Coil Type	Eliminator	Face Velocity	Inlet Connection	Outlet Connection	Connection Type	Internal Volume
Cooling	not needed BUT fit P400	1.76 m/s	1x 1½"	1x 1¼"	Screwed BSP	6.70 l
Drain Pan						
Material		Galvanized		Drain Tray Type		With Coil Fixed Slope
Coil Panel						

SECTION C - PLENUM			
Dimension	450 mm	Type	Plenum Section
ACCESSORIES			
200mm diameter double glazed view port			
Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.			
Access Porthole Fitted			
Hinged Access Door			

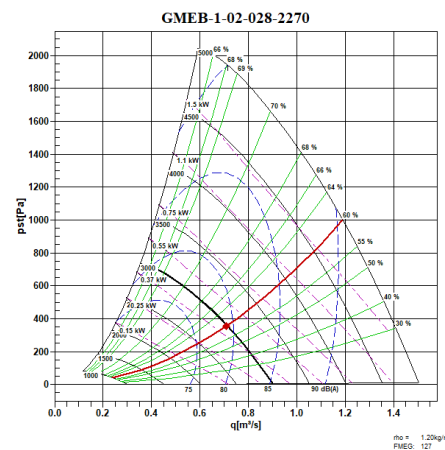
SECTION C - HEATING COIL							
Duty	Air Flow	Air On	Air Off	Water Flow	Water In/Out	Inlet/Outlet Connec	
13.76 kW	.71 m³/s	5.00 °C	21.0 °C	.17 l/s	80.00 / 60.00 °C	1x 1/2" / 1x 1/2"	
Fluid PD	Fin Material	Fin Spacing	Tube Material	Frame Material	Face Velocity	Connection Type	
9 kPa	Aluminium	2.82mm (9/inch)	Copper	Galvanised	1.80 m/s	Screwed BSP	
Internal Volume							
1.80 l							

SECTION C - OUTLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
None	.71 m³/s	None	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION D - INLET SECTION						
Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
None	.71 m³/s	None	Standard	Opposed	Motorisation By Others	50mm Spigot

SECTION D - PANEL FILTER					
Type	Grade	Length	Withdrawal Method	Selected Condition	Spare
Panel Filter	G4	50 mm	Side	Mean	1 Sets
ACCESSORIES					
Magnehelic gauge fitted					
200mm diameter double glazed view port					
Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.					
Access Porthole Fitted					
Removable Door					

SECTION E - EXTRACT PLENUM FAN

Fan Type	Wheel Type	Drive Type						
Plenum	Plenum fan BC AC Motor	Direct Drive						
Model	Impeller Diam.	Abs Power per fan						
GMEB-1-02-028-2270	307 mm	0.43 kW						
Quantity	Duty % Per Fan	Poles						
1	Single Fan	TBA						
Air Flow Volume	Outlet Velocity	Motor Speed						
.71 m³/s	1.1 m/s	2890 rpm						
Ext Static Pressure	Fan Speed	Power per motor						
195.00 Pa	2991 rpm	2.20 kW						
Unit Static Pressure	Static Efficiency	FLC per motor						
160.78 Pa	59.41 %	4.60 A						
Fan Static Pressure	VSD	Volts/Ph/Hz						
356 Pa	Inverter	380/3/50						
IE Classification	Operating Frequency	Max Oper Freq						
WithFan	51.76 Hz	86.51 Hz						
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz
Inlet (1)	74	62	72	72	68	66	65	65
Outlet (2)	62	64	71	69	71	73	70	70
(1) SWL INSIDE The Inlet Duct (dB)				(2) SWL INSIDE The Outlet Duct (dB)				

ACCESSORIES

200mm diameter double glazed view port

Bulkhead light fitted and wired to a single externally mounted switch (IP56) with connector plugs for section splits.

25 Amp pre-wired external isolator(s).

Door guard will be provided.

Inlet flex connection will be provided.

Inverter Efficiency Included For SFP Calculation.

Access Porthole Fitted

Removable Door

SECTION E - OUTLET SECTION

Component	Air Flow	Mounting	Type	Orientation	Control	Fitted Extra
Damper	.71 m³/s	Internal	Standard	Opposed	Motorisation By Others	50mm Spigot

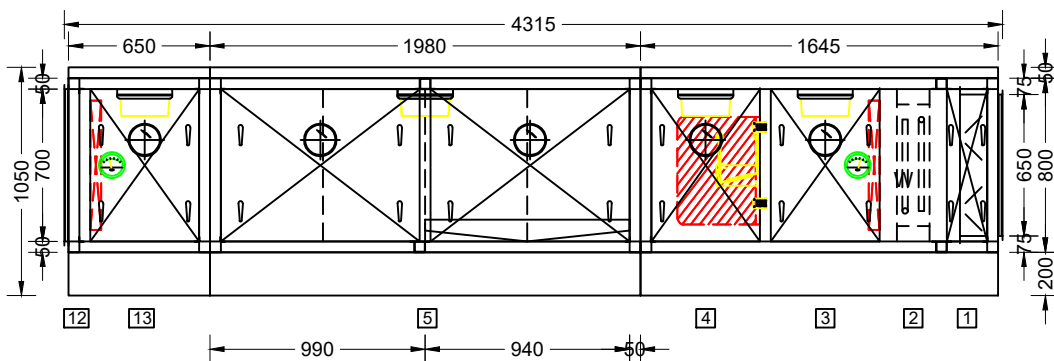
AHU ACOUSTIC DATA SUPPLY SECTIONS

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Overall dB(A)
SWL @ AHU Inlet (dB)	70	59	63	55	53	45	39	35	58
SWL @ AHU Outlet (dB)	59	60	64	62	66	63	58	50	69
Case Radiated SPL @ 1m (dB)	41	40	32	28	27	33	27	20	37

AHU ACOUSTIC DATA EXHAUST SECTIONS

Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	Overall dB(A)
SWL @ AHU Inlet (dB)	70	55	63	61	55	53	49	49	62
SWL @ AHU Outlet (dB)	60	60	65	64	68	70	68	68	76
Case Radiated SPL @ 1m (dB)	39	39	30	26	27	34	28	23	37

NOT TO SCALE



Components

1 Inlet Sec

2 LPHW Heater

4 Bag Filter

Section B: W

Components

5 PHX

Section C

Components

6 Plenum

7 Plenum

8 CW Coil

9 Plenum

10 LPHW Healer
11 Outlet Section

Section D: Weigh

Section D: Weight	Percentage
Components	

12 Inlet Sec

13 Panel Filter

Section E: Weight = 182Kas

Components

14 Plenum Fan

14 Field Unit Fan
15 Outlet Section

ELEVATION FRONT

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT:	Ameon
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Project:	MMU Institute Of Sports
-----------------	-------------------------

Quote No.:

DRAWN

	CHECKED
--	----------------

DATE

(NORTHERN) LIMITED

Tel: (0161) 745 8888 / Fax: (0161) 925 9900

Email: sales@airhandlers.net

TITLE:	AHU 3
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REFERENCE:	AHPHX 900-5050-FG-WP
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DWG. No.	14970-3-D
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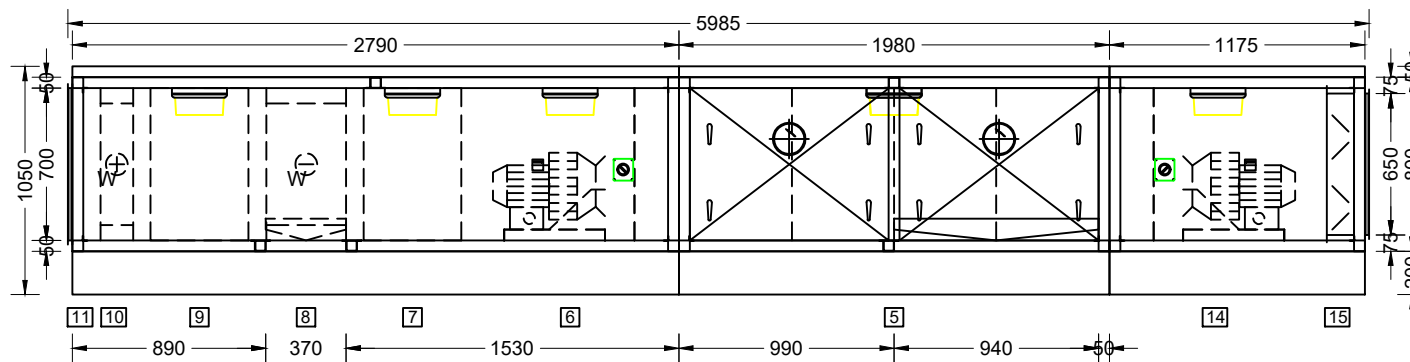
Air flow	.71/.71	m3/s
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Quantity	1	Nos.
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REV.	No.	Revision	Date



IF IN DOUBT ASK NOT TO SCALE



Section A: Weight = 225Kgs

Components

- 1 Inlet Section
- 2 LPHW Heater
- 3 Panel Filter
- 4 Bag Filter

Section B: Weight = 485Kgs

Components

- 5 PHX

Section C: Weight = 412Kgs

Components

- 6 Plenum Fan
- 7 Plenum
- 8 CW Coil
- 9 Plenum
- 10 LPHW Heater
- 11 Outlet Section

Section D: Weight = 90Kgs

Components

- 12 Inlet Section
- 13 Panel Filter

Section E: Weight = 182Kgs

Components

- 14 Plenum Fan
- 15 Outlet Section

ELEVATION BACK

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT: Ameen

Project: MMU Institute Of Sports

Quote No.:

DRAWN

CHECKED

DATE



(NORTHERN) LIMITED

Tel: (0161) 745 8888 / Fax: (0161) 925 9900

Email: sales@airhandlers.net

TITLE: AHU 3

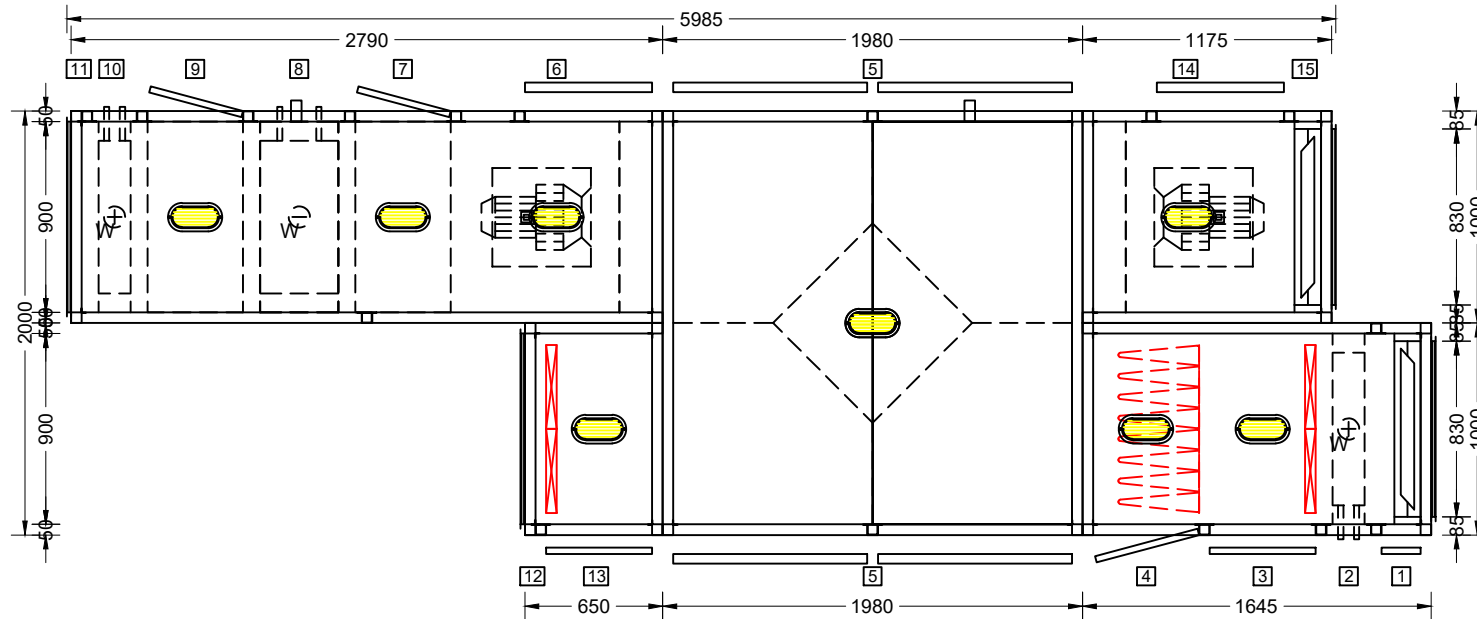
REFERENCE: AHPHX 900-5050-FG-WP

DWG. No. 14970-3-D

Air flow	.71/.71	m3/s
Quantity	1	Nos.

REV.	No.	Revision	Date

IF IN DOUBT ASK! NOT TO SCALE



Section A: Weight = 225Kgs

Components

- 1 Inlet Section
- 2 LPHW Heater
- 3 Panel Filter
- 4 Bag Filter

Section B: Weight = 485Kgs

Components

- 5 PHX

Section C: Weight = 412Kgs

Components

- 6 Plenum Fan
- 7 Plenum
- 8 CW Coil
- 9 Plenum
- 10 LPHW Heater
- 11 Outlet Section

Section D: Weight = 90Kgs

Components

- 12 Inlet Section
- 13 Panel Filter

Section E: Weight = 182Kgs

Components

- 14 Plenum Fan
- 15 Outlet Section

PLAN DECK

Unit supplied in one section unless otherwise stated. Please check that the path to position is suitable for the overall size of the unit. If required we can revise our selection and offer the unit built and delivered in sections or in a flat pack form to be erected in-situ, with additional cost for site work.

CLIENT: Ameen

Project: MMU Institute Of Sports

Quote No.:

DRAWN

CHECKED

DATE



(NORTHERN) LIMITED

Tel: (0161) 745 8888 / Fax: (0161) 925 9900

Email: sales@airhandlers.net

TITLE: AHU 3

REFERENCE: AHPHX 900-5050-FG-WP

DWG. No. 14970-3-D

Air flow .71/.71 m3/s
Quantity 1 Nos.

REV.	No.	Revision	Date