



TECHNICAL SPECIFICATION SHEET

File: AHS14354-01-B

PROJECT DETAILS			
Date	Project no	Project Reference	Unit No
22 May 2015	14354	Primark Reading	AHS14354-01-B
Customer	Rev date	Customer Reference	Flow (Supply/Exhaust)
	13 January 2016	AHU 1 - Basement	6.7450/6.0710 m3/s

UNIT CONSTRUCTION			
Panel Thickness	Panel Insulation	Frame Material	Frame Coating
50 mm	Polyurethane Foam	Galvanised Steel	Painted External
Panel external Sheet	Panel internal Sheet	Base frame	Unit Location
GGrey Plastisol	Galvanised Steel	150x75 R.S.C. Shot Blasted & Primed	External
Access side	Unit Model	Roof type	Leakage Class
Right	Non-standard / Non-standard	Twin Pitched Roof	Class B

SECTION WEIGHTS AND DIMENSIONS				
Section No	Length	Width	Height	Weight
A	1800 mm	1900 mm	1660 mm	634 kg
B	2000 mm	1900 mm	1660 mm	684 kg
C	1580 mm	1900 mm	1660 mm	666 kg
D	2400 mm	1600 mm	1660 mm	825 kg

OVERALL UNIT DIMENSIONS			
Length	Width	Height	Total Weight
5380 mm	3500 mm	1660 mm	2809 kg

001 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.7450 m3/s	1580 x 1420 mm	175-Low Loss-Galvanised Steel	3.01 m/s	Yes	Weather Hood Galv	No

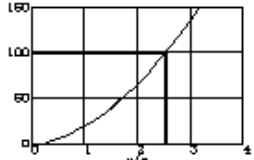
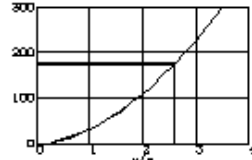
002 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.7450 m3/s	1800.00 x 1560.00 mm	-Standard-Galvanised Steel	2.40	No	None	No

002 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.7450 m3/s	700.00 x 1420.00 mm	175-Low Loss-Galvanised Steel	6.79	Yes	None	No

002 Accessories						
• Door Lock 50mm (Size > 1200mm)						
• Door Hinges (Size > 1200mm)						
• Door Handle (Hinged Door)						
• 2D 16W Bulkhead Light c/w Switch						

002 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1560 mm	Hinged door

003 FILTERS

Stage #	Air Volume	class	Spare Filters	Type	Model	Media	Qty Size 1	Qty Size 2	Length mm	
1	6.7450 m3/s	G4	None	Panel	Aeropleat	Cotton / Synthetic Fibre	6x497x597	2x292x597	50	
2	6.7450 m3/s	F7	None	Bag	S-Flo-W	Synthetic Fibre	6x490x592	2x287x592	500	
1					2					
Clean	Final	Average				Clean	Final	Average		
30 Pa	100 Pa	65 Pa				63 Pa	175 Pa	119 Pa		
										

003 Accessories

- | |
|---|
| ● Minihelic Gauge Minihelic Gauge (0-250Pa) |
| ● Minihelic Gauge Minihelic Gauge (0-500Pa) |
| ● Pressure Tappings |
| ● Lifting Points |

004 PLENUM

Length	500 mm
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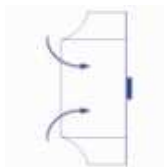
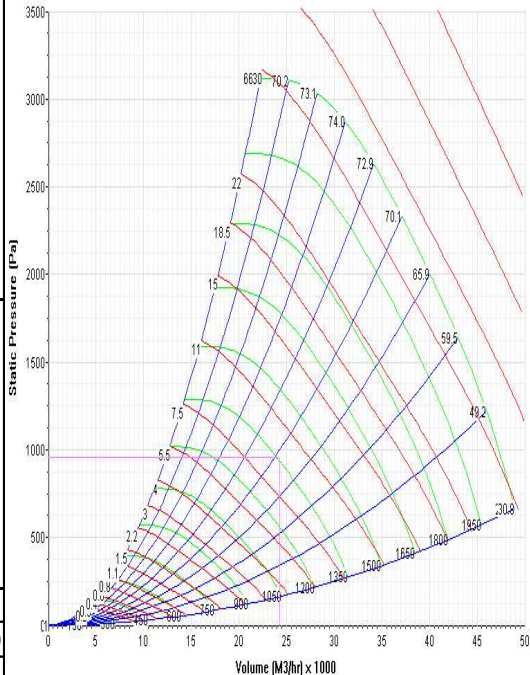
004 Accessories

- | |
|------------------------------------|
| ● Door Lock 50mm (Size > 1200mm) |
| ● Door Hinges (Size > 1200mm) |
| ● Door Handle (Hinged Door) |
| ● 2D 16W Bulkhead Light c/w Switch |
| ● Joining Plates Galvanised Steel |

004 HINGED ACCESS DOOR

Dimensions	Type
500 x 1560 mm	Hinged door

005 PLENUM FAN (Fan Arrangement = Single Fan)

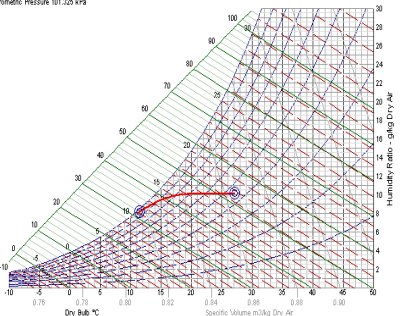
Fan Make	Configuration		Motor Make		Operating Frequency Hz		 				NPA710- 		
Comefri	Free Outlet		Comefri		48.5								
Model	Wheel Type		Size		.								
NPA710-C4EFF11850	Backward Curve		180Mx48Ø		.								
Volume Flow	Outlet Velocity		Poles		.								
6.7450 m3/s	3.8 m/s		4		.								
Ext Static	Speed		Speed		.								
400 Pa	1358 rpm		1400 rpm		.								
Unit Static	Power Input		Power		.								
556 Pa	9.45 kW		18.50 kW		.								
Fan Static Pressure	Static Efficiency		FLC		.								
956 Pa	68.2 %		0.0 A		.								
.	VSD		Volts/Ph/Hz		.								
.	Inverter		380/3/50		.								
.	.		AV Mount Type		.								
			Spring		1	2	3	4					
			AVM Code		OSB20/10	OSB20/10	OSB20/10	OSB20/10					
			AVM Colour		Purple	Purple	Purple	Purple					
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description				
Inlet	92	83	90	79	79	73	71	67	SWL Inside the Inlet Duct (dB)				
Outlet	89	83	93	91	88	81	80	80	SWL Inside the Outlet Duct (dB)				

005 Accessories

- Door Lock 50mm (Size > 1200mm)
- Door Hinges (Size > 1200mm)
- Door Handle (Hinged Door)
- Inspection Window (50mm Panel)
- 2D 16W Bulkhead Light c/w Switch
- Pre- wire motor to external isolator c/w aux contacts
- Pressure Tappings
- Joining Plates Galvanised Steel
- AHU Joining Kit
- Lifting Points
- Guards will be provided at the fan inlets.
- Door guard will be provided.
- Inlet Flex Connection will be provided.

005 HINGED ACCESS DOOR

Dimensions	Type
700 x 1560 mm	Hinged door

006 WATER COOLING COIL												
Flow		Qty	Model					Handing	O/All Dims	Depth	Face Dims	
6.7450 m3/s		1	P40-16AR 7R-36T-1570A-2.5Pa Cu/Al-LHS					Left	1800W x 1500H	550	1570W x 1440H	
Air side	DB	WB	RH	Total Load	Sensible Load	Face Velocity	Pressure Drop	Psychrometric Chart ©CCSI Barometric Pressure 101.325 kPa 				
On	27.2 °C	NaN °C	45.0 %	179.92 kW	134.46 kW	2.98 m/s	212 Pa					
Off	11.3 °C	10.9 °C	95.0 %									
Water	Temp	Water Flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size					
In	6.0 °C	1 x 7.160 l/s		14 kPa	None	0 %	1 x 3"					
Out	12.0 °C						1 x 3"					
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material	.	SHR	Eliminator	Drain Tray			
42	1.10	Al - Standard	Cu - standard	Copper	Galv Steel	.	75 %	Yes	None			

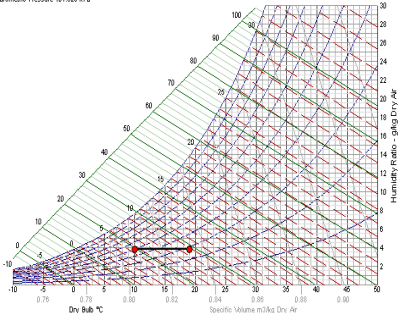
006 COIL PANEL	
Dimensions	Type
600 x 1560 mm	Coil Panel

006 DRAIN PAN	
Material	Drain size
Stainless Steel (316)	1800 mm

007 PLENUM	
Length	500 mm

007 Accessories	
- Door Lock 50mm (Size > 1200mm) - Door Hinges (Size > 1200mm) - Door Handle (Hinged Door) 2D 16W Bulkhead Light c/w Switch - Lifting Points	

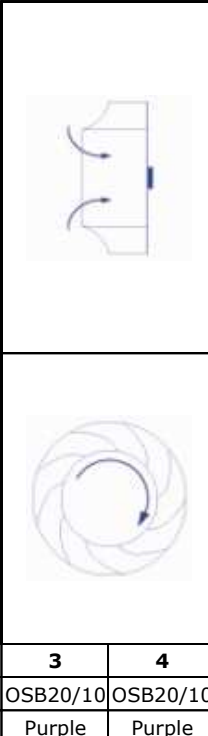
007 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1560 mm	Hinged door

008 HOT WATER COIL											
Flow		Qty	Model					Handling	O/All Dims	Depth	Face Dims
6.7450 m3/s		1	P40-16AC 1R-36T-1615A-4.0Pa Cu/Al-LHS					Left	1800W x 1500H	130	1615W x 1440H
Air side	DB	WB	RH	Total Load	Sensible Load	Face velocity	Pressure Drop	Psychrometric Chart ©CCSI Barometric Pressure 101.325 kPa 			
On	10.0 °C	-	.0 %	74.71 kW	74.71 kW	2.90 m/s	23 Pa				
Off	19.0 °C	-	.0 %								
Water	Temp.	Water flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size				
In	70.0 °C	1 x 0.890 l/s		9.0 kPa	None	0 %	1 x 1 1/4"				
Out	50.0 °C						1 x 1 1/4"				
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material						
6	1.10	Al - Standard	Cu - standard	Copper	Galv Steel						

008 COIL PANEL	
Dimensions	Type
180 x 1560 mm	Coil Panel

009 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.7450 m3/s	1800 x 1560 mm	-Standard-Galvanised Steel	2.40 m/s	No	30mm Spigot Galv	No

0010 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.0710 m3/s	1500 x 1560 mm	-Standard-Galvanised Steel	2.59 m/s	No	30mm Spigot Galv	No

0011 PLENUM FAN (Fan Arrangement = Single Fan)									
Fan Make	Configuration		Motor Make	Operating Frequency Hz					
Comefri	Free Outlet		Comefri	57.78					
Model	Wheel Type		Size	.					
NPA710-C6EFF20750	Backward Curve		160Mx42Ø	.					
Volume Flow	Outlet Velocity		Poles	.					
6.0710 m3/s	3.4 m/s		6	.					
Ext Static	Speed		Speed	.					
350 Pa	1040 rpm		900 rpm	.					
Unit Static	Power Input		Power	.					
18 Pa	4.06 kW		7.50 kW	.					
Fan Static Pressure	Static Efficiency		FLC	.					
368 Pa	55.1 %		0.0 A	.					
.	VSD		Volts/Ph/Hz	.					
.	Inverter		380/3/50	.					
.	.		AV Mount Type	.					
			Spring	1	2	3	4		
			AVM Code	OSB20/10	OSB20/10	OSB20/10	OSB20/10		
			AVM Colour	Purple	Purple	Purple	Purple		
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description
Inlet	88	88	83	76	75	69	68	63	SWL Inside the Inlet Duct (dB)
Outlet	88	92	89	88	83	78	78	70	SWL Inside the Outlet Duct (dB)

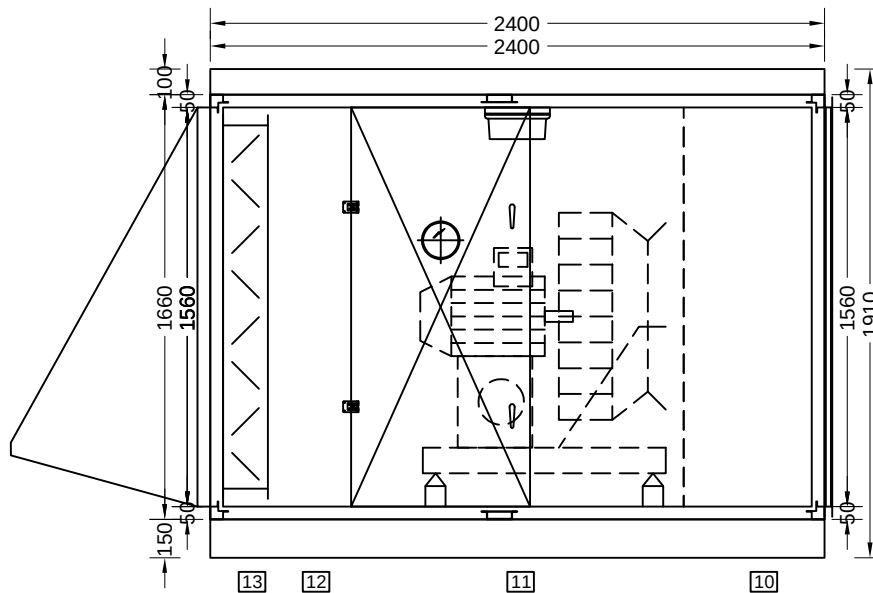
0011 Accessories									
● Door Lock 50mm (Size > 1200mm)									
● Door Hinges (Size > 1200mm)									
● Door Handle (Hinged Door)									
● Inspection Window (50mm Panel)									
● 2D 16W Bulkhead Light c/w Switch									
● Pre- wire motor to external isolator c/w aux contacts									
● Pressure Tappings									
● Lifting Points									
● Guards will be provided at the fan inlets.									
● Door guard will be provided.									
● Inlet Flex Connection will be provided.									

0011 HINGED ACCESS DOOR	
Dimensions	Type
700 x 1560 mm	Hinged door

0012 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.0710 m3/s	1500 x 1560 mm	-Standard-Galvanised Steel	2.59 m/s	No	None	No

0013 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.0710 m3/s	1280 x 1420 mm	175-Low Loss-Galvanised Steel	3.34 m/s	Yes	Weather Hood Galv	No

AHU SPECIFIC FAN POWER			
Supply Fan		Extract Fan	
Filter Conditions	Clean	Filter Conditions	Clean
Absorbed Power	7.99 Kw	Absorbed Power	4.06 Kw
Drive Efficiency	100%	Drive Efficiency	100%
Invertor Efficiency	100%	Invertor Efficiency	100%
Motor Efficiency	93%	Motor Efficiency	90%
Air Volume	6.75m3/s	Air Volume	6.07m3/s
AHU SFP	1.94 W/l/s		
Any components selected at 100% are not included in this selection			



ELEVATION FRONT

Section A: Weight = 634Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 684Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 666Kgs

Components

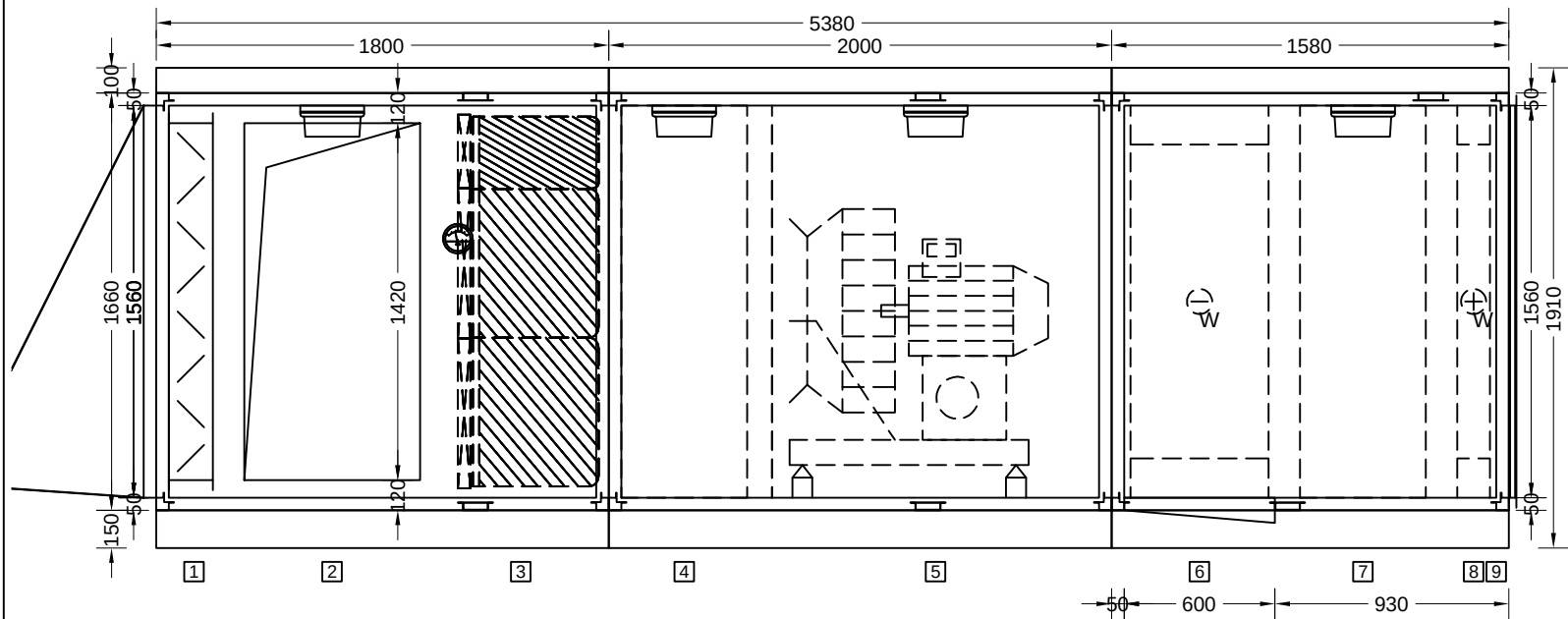
- 6 CW Coil
- 7 Plenum
- 8 LPHW Heater
- 9 Outlet Section

Section D: Weight = 825Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

Customer		Air flow	6.75/6.07	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM, DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2809	Kg	AHU No.	1				
Location	AHU 1 - Basement	E.S.P	400 / 350	Pa	Dwg No.	14354-1-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 634Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 684Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 666Kgs

Components

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

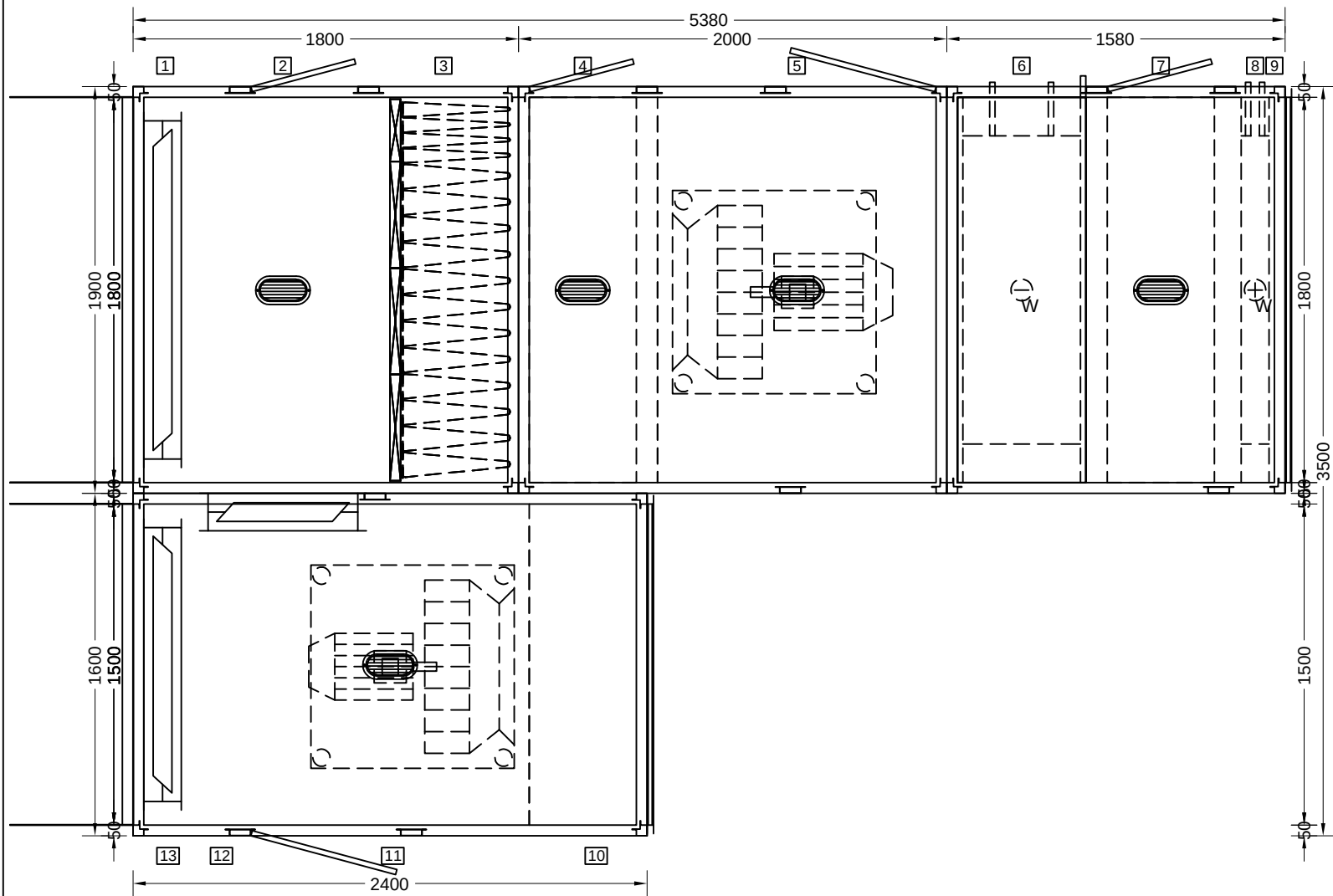
Section D: Weight = 825Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

ELEVATION BACK

Customer		Air flow	6.75/6.07	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2809	Kg	AHU No.	1				
Location	AHU 1 - Basement	E.S.P	400 / 350	Pa	Dwg No.	14354-1-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 634Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 684Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 666Kgs

Components

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

Section D: Weight = 825Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

PLAN DECK

Customer		Air flow	6.75/6.07	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM, DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2809	Kg	AHU No.	1				
Location	AHU 1 - Basement	E.S.P	400 / 350	Pa	Dwg No.	14354-1-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



TECHNICAL SPECIFICATION SHEET

File: AHS14354-02-B

PROJECT DETAILS			
Date	Project no	Project Reference	Unit No
22 May 2015	14354	Primark Reading	AHS14354-02-B
Customer	Rev date	Customer Reference	Flow (Supply/Exhaust)
	14 January 2016	AHU 2 - Ground Floor	7.4600/6.7140 m3/s

UNIT CONSTRUCTION			
Panel Thickness	Panel Insulation	Frame Material	Frame Coating
50 mm	Polyurethane Foam	Galvanised Steel	Painted External
Panel external Sheet	Panel internal Sheet	Base frame	Unit Location
GGrey Plastisol	Galvanised Steel	150x75 R.S.C. Shot Blasted & Primed	External
Access side	Unit Model	Roof type	Leakage Class
Right	Non-standard / Non-standard	Twin Pitched Roof	Class B

SECTION WEIGHTS AND DIMENSIONS				
Section No	Length	Width	Height	Weight
A	1800 mm	1900 mm	1960 mm	687 kg
B	2000 mm	1900 mm	1960 mm	732 kg
C	1570 mm	1900 mm	1960 mm	743 kg
D	2400 mm	1600 mm	1960 mm	878 kg

OVERALL UNIT DIMENSIONS			
Length	Width	Height	Total Weight
5370 mm	3500 mm	1960 mm	3041 kg

001 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
7.4600 m3/s	1580 x 1720 mm	175-Low Loss-Galvanised Steel	2.75 m/s	Yes	Weather Hood Galv	No

002 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
7.4600 m3/s	1800.00 x 1860.00 mm	-Standard-Galvanised Steel	2.23	No	None	No

002 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
7.4600 m3/s	700.00 x 1720.00 mm	175-Low Loss-Galvanised Steel	6.20	Yes	None	No

002 Accessories						
• Door Lock 50mm (Size > 1200mm)						
• Door Hinges (Size > 1200mm)						
• Door Handle (Hinged Door)						
• 2D 16W Bulkhead Light c/w Switch						

002 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1860 mm	Hinged door

003 FILTERS									
Stage #	Air Volume	class	Spare Filters	Type	Model	Media	Qty Size 1	Qty Size 2	Length mm
1	7.4600 m3/s	G4	None	Panel	Aeropleat	Cotton / Synthetic Fibre	9x596x596	.	50
2	7.4600 m3/s	F7	None	Bag	S-Flo-W	Synthetic Fibre	9x592x592	.	500
1					2				
Clean	Final	Average			Clean	Final	Average		
28 Pa	100 Pa	64 Pa			57 Pa	175 Pa	116 Pa		

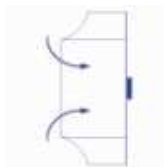
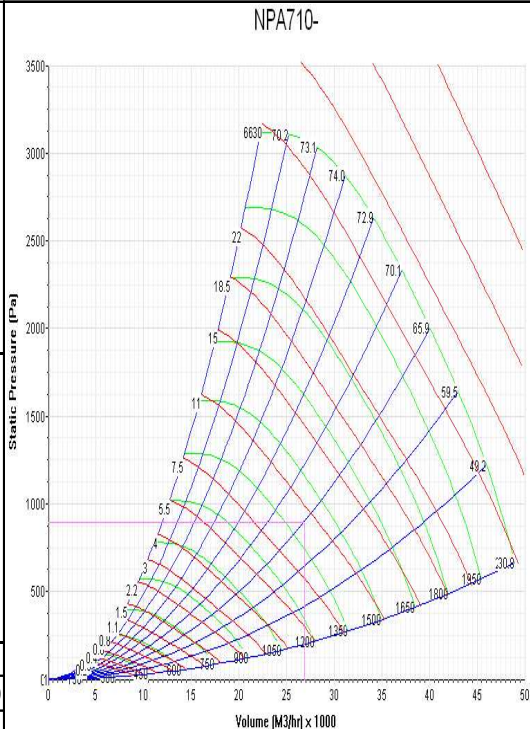
● Minihelic Gauge Minihelic Gauge (0-250Pa)
● Minihelic Gauge Minihelic Gauge (0-500Pa)
● Pressure Tappings
● Lifting Points

Length	500 mm
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● Door Lock 50mm (Size > 1200mm)
● Door Hinges (Size > 1200mm)
● Door Handle (Hinged Door)
● 2D 16W Bulkhead Light c/w Switch
● Joining Plates Galvanised Steel

Dimensions	Type
500 x 1860 mm	Hinged door

005 PLENUM FAN (Fan Arrangement = Single Fan)

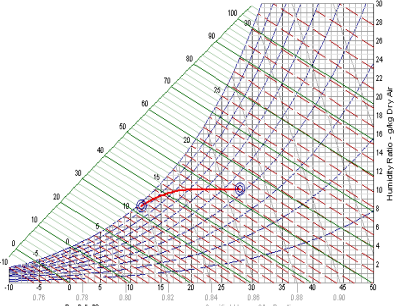
Fan Make	Configuration		Motor Make	Operating Frequency Hz		 				
Comefri	Free Outlet	Comefri	50.14							
Model	Wheel Type	Size	.							
NPA710-C4EFF12200	Backward Curve	180Lx48Ø	.							
Volume Flow	Outlet Velocity	Poles	.							
7.4600 m3/s	3.1 m/s	4	.							
Ext Static	Speed	Speed	.							
400 Pa	1404 rpm	1400 rpm	.							
Unit Static	Power Input	Power	.							
492 Pa	10.33 kW	22.00 kW	.							
Fan Static Pressure	Static Efficiency	FLC	.							
892 Pa	64.4 %	0.0 A	.							
.	VSD	Volts/Ph/Hz	.							
.	Inverter	380/3/50	.							
.	.	AV Mount Type	.							
		Spring	1	2	3	4				
		AVM Code	OSB20/10	OSB20/10	OSB20/10	OSB20/10				
		AVM Colour	Purple	Purple	Purple	Purple				
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description	
Inlet	92	85	89	81	81	76	73	73	SWL Inside the Inlet Duct (dB)	
Outlet	91	87	95	93	91	83	80	79	SWL Inside the Outlet Duct (dB)	

005 Accessories

- Door Lock 50mm (Size > 1200mm)
- Door Hinges (Size > 1200mm)
- Door Handle (Hinged Door)
- Inspection Window (50mm Panel)
- 2D 16W Bulkhead Light c/w Switch
- Pre- wire motor to external isolator c/w aux contacts
- Pressure Tappings
- Joining Plates Galvanised Steel
- AHU Joining Kit
- Lifting Points
- Guards will be provided at the fan inlets.
- Door guard will be provided.
- Inlet Flex Connection will be provided.

005 HINGED ACCESS DOOR

Dimensions	Type
700 x 1860 mm	Hinged door

006 WATER COOLING COIL												
Flow		Qty	Model					Handing	O/All Dims	Depth	Face Dims	
7.4600 m3/s		1	P40-16AR 6R-43T-1570A-2.5Pa Cu/Al-LHS					Left	1800W x 1800H	510	1570W x 1720H	
Air side	DB	WB	RH	Total Load	Sensible Load	Face Velocity	Pressure Drop	Psychrometric Chart (BCCSI) Barometric Pressure 101.325 kPa 				
On	28.1 °C	NaN °C	42.1 %	198.99 kW	153.34 kW	2.76 m/s	158 Pa					
Off	11.7 °C	11.1 °C	93.0 %									
Water	Temp	Water Flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size					
In	6.0 °C	1 x 7.920 l/s		16 kPa	None	0 %	1 x 3"					
Out	12.0 °C						1 x 3"					
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material	.	SHR	Eliminator	Drain Tray			
43	1.10	Al - Standard	Cu - standard	Copper	Galv Steel	.	77 %	Yes	None			

006 COIL PANEL	
Dimensions	Type
560 x 1860 mm	Coil Panel

006 DRAIN PAN	
Material	Drain size
Stainless Steel (316)	1800 mm

007 PLENUM	
Length	
500 mm	

007 Accessories	
- Door Lock 50mm (Size > 1200mm) - Door Hinges (Size > 1200mm) - Door Handle (Hinged Door) 2D 16W Bulkhead Light c/w Switch - Lifting Points	

007 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1860 mm	Hinged door

008 HOT WATER COIL											
Flow		Qty	Model					Handing	O/All Dims	Depth	Face Dims
7.4600 m3/s		1	P40-16AC 1R-43T-1610A-4.0Pa Cu/Al-LHS					Left	1800W x 1800H	160	1610W x 1720H
Air side	DB	WB	RH	Total Load	Sensible Load	Face velocity	Pressure Drop	Psychrometric Chart (°C/°F) Barometric Pressure 101.325 kPa			
On	9.4 °C	-	.0 %	88.14 kW	88.14 kW	2.69 m/s	20 Pa				
Off	19.0 °C	-	.0 %								
Water	Temp.	Water flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size				
In	70.0 °C	1 x 1.050 l/s		9.0 kPa	None	0 %	1 x 1 1/2"				
Out	50.0 °C						1 x 1 1/2"				
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material						
7	1.10	Al - Standard	Cu - standard	Copper	Galv Steel						

008 COIL PANEL	
Dimensions	Type
210 x 1860 mm	Coil Panel

009 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
7.4600 m3/s	1800 x 1860 mm	-Standard-Galvanised Steel	2.23 m/s	No	30mm Spigot Galv	No

0010 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.7140 m3/s	1500 x 1860 mm	-Standard-Galvanised Steel	2.41 m/s	No	30mm Spigot Galv	No

0011 PLENUM FAN (Fan Arrangement = Single Fan)									
Fan Make	Configuration		Motor Make	Operating Frequency Hz					
Comefri	Free Outlet	Comefri	61.94						
Model	Wheel Type	Size	.						
NPA710-C6EFF21100	Backward Curve	160Lx42Ø	.						
Volume Flow	Outlet Velocity	Poles	.						
6.7140 m3/s	2.8 m/s	6	.						
Ext Static	Speed	Speed	.						
350 Pa	1115 rpm	900 rpm	.						
Unit Static	Power Input	Power	.						
15 Pa	4.89 kW	11.00 kW	.						
Fan Static Pressure	Static Efficiency	FLC	.						
365 Pa	50.2 %	0.0 A	.						
.	VSD	Volts/Ph/Hz	.						
.	Inverter	380/3/50	.						
.	.	AV Mount Type	.						
		Spring	1	2	3	4			
		AVM Code	OSB20/10	OSB20/10	OSB20/10	OSB20/10			
		AVM Colour	Purple	Purple	Purple	Purple			
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description
Inlet	89	82	86	78	78	73	70	70	SWL Inside the Inlet Duct (dB)
Outlet	88	84	92	90	88	80	77	76	SWL Inside the Outlet Duct (dB)

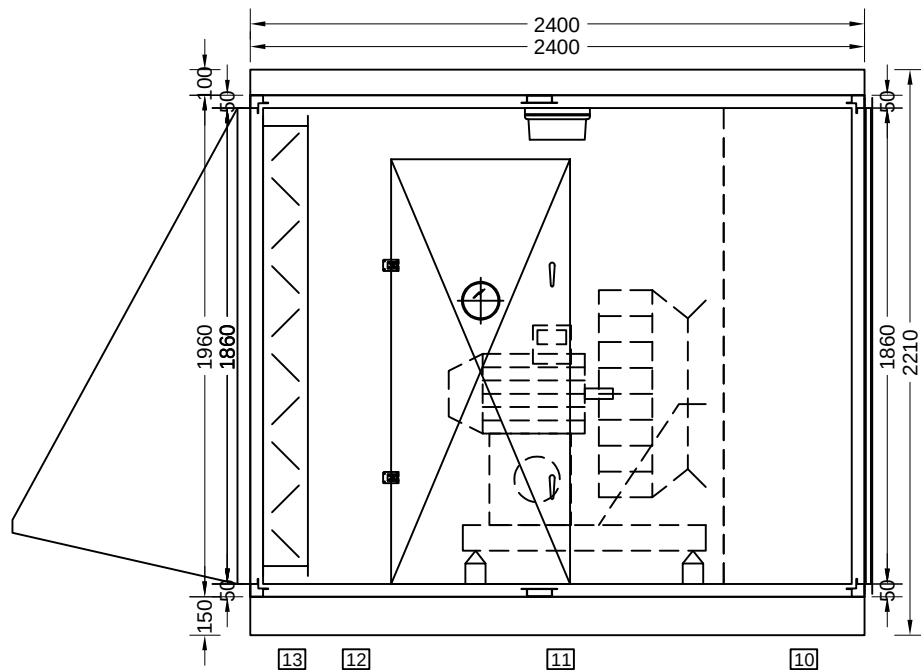
0011 Accessories									
● Door Lock 50mm (Size > 1200mm)									
● Door Hinges (Size > 1200mm)									
● Door Handle (Hinged Door)									
● Inspection Window (50mm Panel)									
● 2D 16W Bulkhead Light c/w Switch									
● Pre- wire motor to external isolator c/w aux contacts									
● Pressure Tappings									
● Lifting Points									
● Guards will be provided at the fan inlets.									
● Door guard will be provided.									
● Inlet Flex Connection will be provided.									

0011 HINGED ACCESS DOOR	
Dimensions	Type
700 x 1860 mm	Hinged door

0012 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.7140 m3/s	1500 x 1860 mm	-Standard-Galvanised Steel	2.41 m/s	No	None	No

0013 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.7140 m3/s	1280 x 1720 mm	175-Low Loss-Galvanised Steel	3.05 m/s	Yes	Weather Hood Galv	No

AHU SPECIFIC FAN POWER			
Supply Fan		Extract Fan	
Filter Conditions	Clean	Filter Conditions	Clean
Absorbed Power	8.69 Kw	Absorbed Power	4.89 Kw
Drive Efficiency	100%	Drive Efficiency	100%
Invertor Efficiency	100%	Invertor Efficiency	100%
Motor Efficiency	93%	Motor Efficiency	92%
Air Volume	7.46m3/s	Air Volume	6.71m3/s
AHU SFP	1.97 W/l/s		
Any components selected at 100% are not included in this selection			



ELEVATION FRONT

Section A: Weight = 687Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 732Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 743Kgs

Components

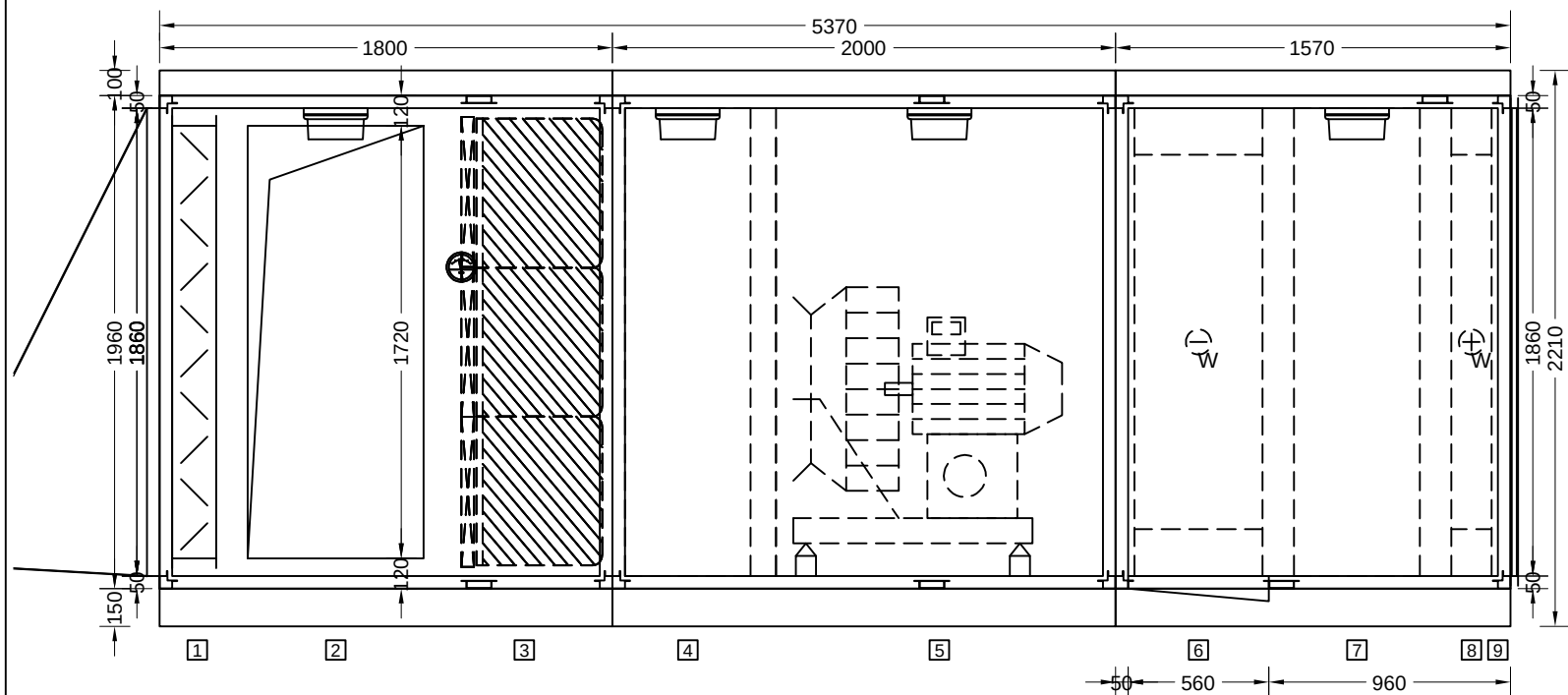
- 6 CW Coil
- 7 Plenum
- 8 LPHW Heater
- 9 Outlet Section

Section D: Weight = 878Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

Customer		Air flow	7.46/6.71	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM, DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	3041	Kg	AHU No.	2				
Location	AHU 2 - Ground Floor	E.S.P	400 / 350	Pa	Dwg No.	14354-2-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 687Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 732Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 743Kgs

Components

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

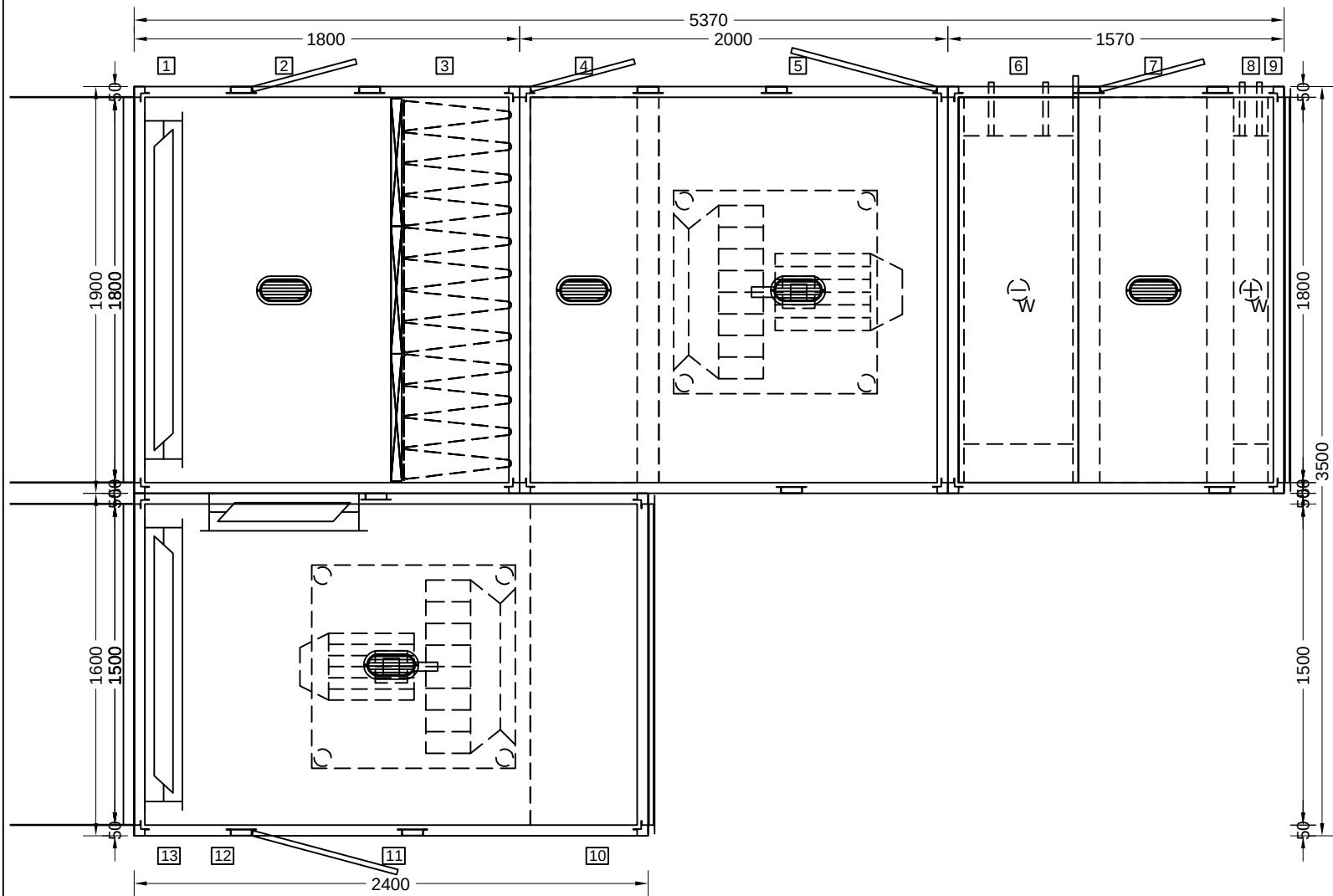
Section D: Weight = 878Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

ELEVATION BACK

Customer		Air flow	7.46/6.71	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	3041	Kg	AHU No.	2				
Location	AHU 2 - Ground Floor	E.S.P	400 / 350	Pa	Dwg No.	14354-2-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 687Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 732Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 743Kgs

Components

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

Section D: Weight = 878Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

PLAN DECK

Customer		Air flow	7.46/6.71	m ³ /s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	3041	Kg	AHU No.	2				
Location	AHU 2 - Ground Floor	E.S.P	400 / 350	Pa	Dwg No.	14354-2-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



TECHNICAL SPECIFICATION SHEET

File: AHS14354-03-B

PROJECT DETAILS			
Date	Project no	Project Reference	Unit No
22 May 2015	14354	Primark Reading	AHS14354-03-B
Customer	Rev date	Customer Reference	Flow (Supply/Exhaust)
	13 January 2016	AHU 3 - First Floor	7.2320/6.5090 m3/s

UNIT CONSTRUCTION			
Panel Thickness	Panel Insulation	Frame Material	Frame Coating
50 mm	Polyurethane Foam	Galvanised Steel	Painted External
Panel external Sheet	Panel internal Sheet	Base frame	Unit Location
GGrey Plastisol	Galvanised Steel	150x75 R.S.C. Shot Blasted & Primed	External
Access side	Unit Model	Roof type	Leakage Class
Right	Non-standard / Non-standard	Twin Pitched Roof	Class B

SECTION WEIGHTS AND DIMENSIONS				
Section No	Length	Width	Height	Weight
A	1800 mm	1900 mm	1960 mm	687 kg
B	2000 mm	1900 mm	1960 mm	732 kg
C	1570 mm	1900 mm	1960 mm	746 kg
D	2400 mm	1600 mm	1960 mm	878 kg

OVERALL UNIT DIMENSIONS			
Length	Width	Height	Total Weight
5370 mm	3500 mm	1960 mm	3044 kg

001 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
7.2320 m3/s	1580 x 1720 mm	175-Low Loss-Galvanised Steel	2.66 m/s	Yes	Weather Hood Galv	No

002 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
7.2320 m3/s	1800.00 x 1860.00 mm	-Standard-Galvanised Steel	2.16	No	None	No

002 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
7.2320 m3/s	700.00 x 1720.00 mm	175-Low Loss-Galvanised Steel	6.01	Yes	None	No

002 Accessories						
• Door Lock 50mm (Size > 1200mm)						
• Door Hinges (Size > 1200mm)						
• Door Handle (Hinged Door)						
• 2D 16W Bulkhead Light c/w Switch						

002 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1860 mm	Hinged door

003 FILTERS									
Stage #	Air Volume	class	Spare Filters	Type	Model	Media	Qty Size 1	Qty Size 2	Length mm
1	7.2320 m3/s	G4	None	Panel	Aeropleat	Cotton / Synthetic Fibre	9x596x596	.	50
2	7.2320 m3/s	F7	None	Bag	S-Flo-W	Synthetic Fibre	9x592x592	.	500
1					2				
Clean	Final	Average			Clean	Final	Average		
27 Pa	100 Pa	63 Pa			56 Pa	175 Pa	115 Pa		

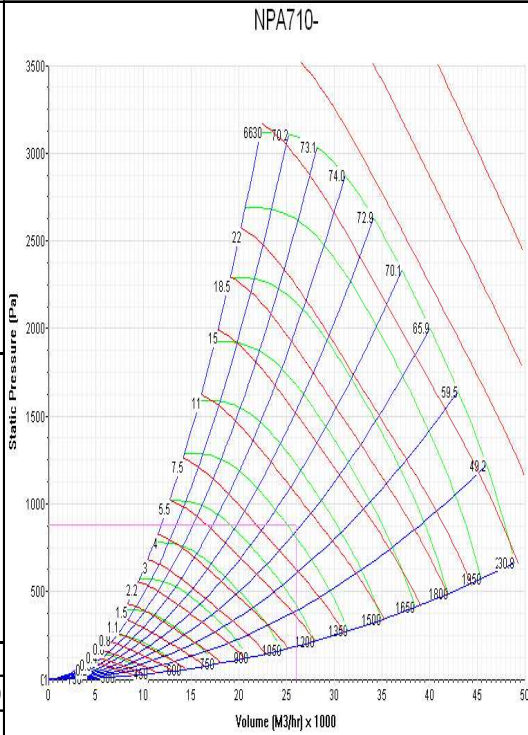
● Minihelic Gauge Minihelic Gauge (0-250Pa)
● Minihelic Gauge Minihelic Gauge (0-500Pa)
● Pressure Tappings
● Lifting Points

Length	500 mm
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● Door Lock 50mm (Size > 1200mm)
● Door Hinges (Size > 1200mm)
● Door Handle (Hinged Door)
● 2D 16W Bulkhead Light c/w Switch
● Joining Plates Galvanised Steel

Dimensions	Type
500 x 1860 mm	Hinged door

005 PLENUM FAN (Fan Arrangement = Single Fan)

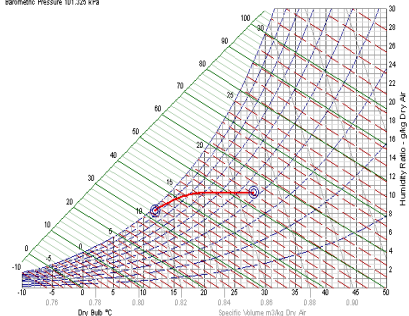
Fan Make	Configuration		Motor Make	Operating Frequency Hz						
Comefri	Free Outlet		Comefri	49.21						
Model	Wheel Type	Size	.							
NPA710- C4EFF11850	Backward Curve	180Mx48Ø	.							
Volume Flow	Outlet Velocity	Poles	.							
7.2320 m3/s	3.4 m/s	4	.							
Ext Static	Speed	Speed	.							
400 Pa	1378 rpm	1400 rpm	.							
Unit Static	Power Input	Power	.							
482 Pa	9.78 kW	18.50 kW	.							
Fan Static Pressure	Static Efficiency	FLC	.							
882 Pa	65.2 %	0.0 A	.							
.	VSD	Volts/Ph/Hz	.							
.	Inverter	380/3/50	.							
.	.	AV Mount Type	.							
		Spring	1	2	3	4				
		AVM Code	OSB20/10	OSB20/10	OSB20/10	OSB20/10				
		AVM Colour	Purple	Purple	Purple	Purple				
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description	
Inlet	92	85	89	81	81	76	73	73	SWL Inside the Inlet Duct (dB)	
Outlet	90	86	94	92	90	82	79	78	SWL Inside the Outlet Duct (dB)	

005 Accessories

- Door Lock 50mm (Size > 1200mm)
- Door Hinges (Size > 1200mm)
- Door Handle (Hinged Door)
- Inspection Window (50mm Panel)
- 2D 16W Bulkhead Light c/w Switch
- Pre- wire motor to external isolator c/w aux contacts
- Pressure Tappings
- Joining Plates Galvanised Steel
- AHU Joining Kit
- Lifting Points
- Guards will be provided at the fan inlets.
- Door guard will be provided.
- Inlet Flex Connection will be provided.

005 HINGED ACCESS DOOR

Dimensions	Type
700 x 1860 mm	Hinged door

006 WATER COOLING COIL												
Flow		Qty	Model					Handing	O/All Dims	Depth	Face Dims	
7.2320 m3/s		1	P40-16AR 6R-43T-1570A-2.5Pa Cu/Al-LHS					Left	1800W x 1800H	510	1570W x 1720H	
Air side	DB	WB	RH	Total Load	Sensible Load	Face Velocity	Pressure Drop	Psychrometric Chart (BCCSI) Barometric Pressure 101.325 kPa 				
On	28.2 °C	NaN °C	42.6 %	194.63 kW	149.58 kW	2.68 m/s	150 Pa					
Off	11.7 °C	11.1 °C	94.0 %									
Water	Temp	Water Flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size					
In	6.0 °C	1 x 7.750 l/s		15 kPa	None	0 %	1 x 3"					
Out	12.0 °C						1 x 3"					
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material	.	SHR	Eliminator	Drain Tray			
43	1.10	Al - Standard	Cu - standard	Copper	Galv Steel	.	77 %	Yes	None			

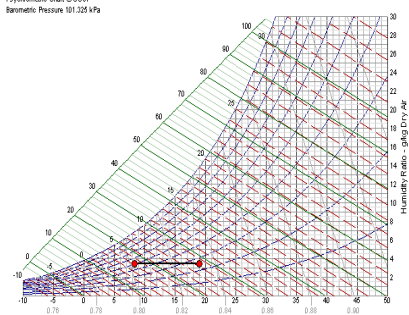
006 COIL PANEL	
Dimensions	Type
560 x 1860 mm	Coil Panel

006 DRAIN PAN	
Material	Drain size
Stainless Steel (316)	1800 mm

007 PLENUM	
Length	500 mm

007 Accessories	
- Door Lock 50mm (Size > 1200mm) - Door Hinges (Size > 1200mm) - Door Handle (Hinged Door) 2D 16W Bulkhead Light c/w Switch - Lifting Points	

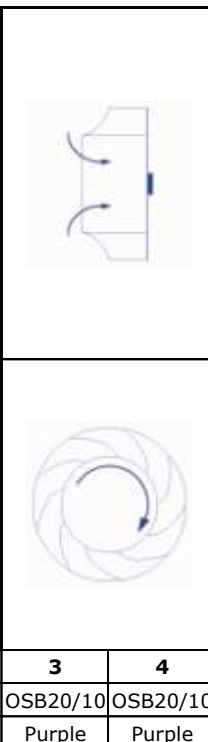
007 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1860 mm	Hinged door

008 HOT WATER COIL											
Flow		Qty	Model					Handing	O/All Dims	Depth	Face Dims
7.2320 m3/s		1	P40-16AC 1R-43T-1610A-3.0Pa Cu/Al-LHS					Left	1800W x 1800H	160	1610W x 1720H
Air side	DB	WB	RH	Total Load	Sensible Load	Face velocity	Pressure Drop	Psychrometric Chart (°C/°F) Barometric Pressure 101.325 kPa 			
On	8.4 °C	-	.0 %	94.34 kW	94.34 kW	2.61 m/s	22 Pa				
Off	19.0 °C	-	.0 %								
Water	Temp.	Water flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size				
In	70.0 °C	1 x 1.130 l/s		10.0 kPa	None	0 %	1 x 1 1/2"				
Out	50.0 °C						1 x 1 1/2"				
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material						
7	1.10	Al - Standard	Cu - standard	Copper	Galv Steel						

008 COIL PANEL	
Dimensions	Type
210 x 1860 mm	Coil Panel

009 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
7.2320 m3/s	1800 x 1860 mm	-Standard-Galvanised Steel	2.16 m/s	No	30mm Spigot Galv	No

0010 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.5090 m3/s	1500 x 1860 mm	-Standard-Galvanised Steel	2.33 m/s	No	30mm Spigot Galv	No

0011 PLENUM FAN (Fan Arrangement = Single Fan)									
Fan Make	Configuration		Motor Make	Operating Frequency Hz					
Comefri	Free Outlet		Comefri	60.56					
Model	Wheel Type		Size	.					
NPA710-C6EFF21100	Backward Curve		160Lx42Ø	.					
Volume Flow	Outlet Velocity		Poles	.					
6.5090 m3/s	2.7 m/s		6	.					
Ext Static	Speed		Speed	.					
350 Pa	1090 rpm		900 rpm	.					
Unit Static	Power Input		Power	.					
15 Pa	4.60 kW		11.00 kW	.					
Fan Static Pressure	Static Efficiency		FLC	.					
365 Pa	51.7 %		0.0 A	.					
.	VSD		Volts/Ph/Hz	.					
.	Inverter		380/3/50	.					
.	.		AV Mount Type	.					
			Spring	1	2	3	4		
			AVM Code	OSB20/10	OSB20/10	OSB20/10	OSB20/10		
			AVM Colour	Purple	Purple	Purple	Purple		
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description
Inlet	88	81	85	77	77	72	69	69	SWL Inside the Inlet Duct (dB)
Outlet	87	83	91	89	87	79	76	75	SWL Inside the Outlet Duct (dB)

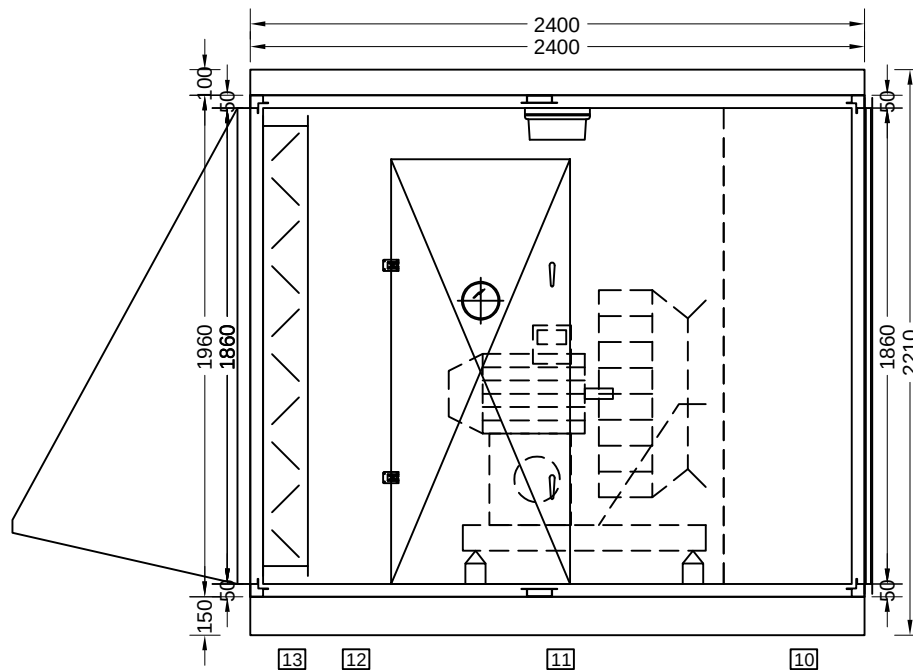
0011 Accessories									
● Door Lock 50mm (Size > 1200mm)									
● Door Hinges (Size > 1200mm)									
● Door Handle (Hinged Door)									
● Inspection Window (50mm Panel)									
● 2D 16W Bulkhead Light c/w Switch									
● Pre- wire motor to external isolator c/w aux contacts									
● Pressure Tappings									
● Lifting Points									
● Guards will be provided at the fan inlets.									
● Door guard will be provided.									
● Inlet Flex Connection will be provided.									

0011 HINGED ACCESS DOOR	
Dimensions	Type
700 x 1860 mm	Hinged door

0012 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.5090 m3/s	1500 x 1860 mm	-Standard-Galvanised Steel	2.33 m/s	No	None	No

0013 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
6.5090 m3/s	1280 x 1720 mm	175-Low Loss-Galvanised Steel	2.96 m/s	Yes	Weather Hood Galv	No

AHU SPECIFIC FAN POWER			
Supply Fan		Extract Fan	
Filter Conditions	Clean	Filter Conditions	Clean
Absorbed Power	8.16 Kw	Absorbed Power	4.60 Kw
Drive Efficiency	100%	Drive Efficiency	100%
Invertor Efficiency	100%	Invertor Efficiency	100%
Motor Efficiency	93%	Motor Efficiency	92%
Air Volume	7.23m3/s	Air Volume	6.51m3/s
AHU SFP	1.9 W/l/s		
Any components selected at 100% are not included in this selection			



ELEVATION FRONT

Section A: Weight = 687Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 732Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 746Kgs

Components

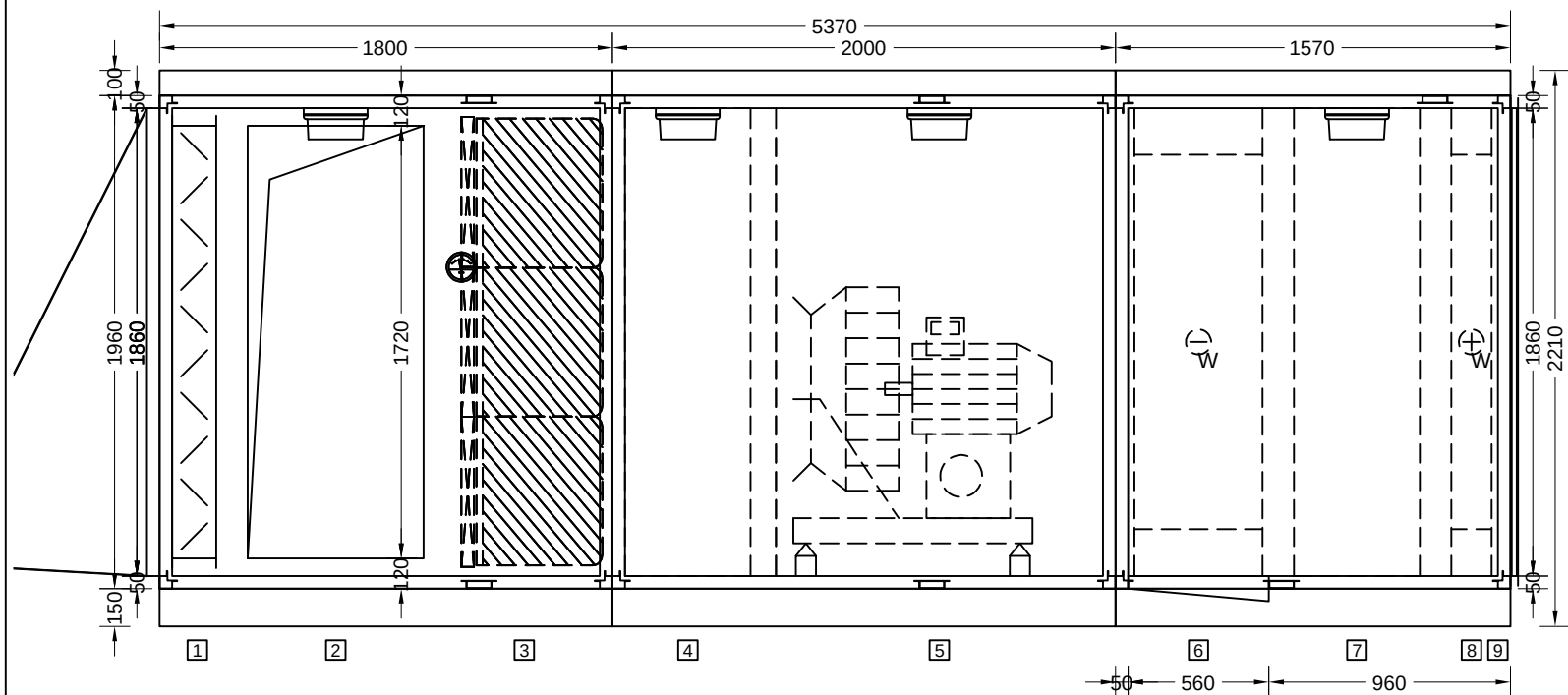
- 6 CW Coil
- 7 Plenum
- 8 LPHW Heater
- 9 Outlet Section

Section D: Weight = 878Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

Customer		Air flow	7.23/6.51	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	3044	Kg	AHU No.	3				
Location	AHU 3 - First Floor	E.S.P	400 / 350	Pa	Dwg No.	14354-3-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 687Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 732Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 746Kgs

Components

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

Section D: Weight = 878Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

ELEVATION BACK

Customer		Air flow	7.23/6.51	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	3044	Kg	AHU No.	3				
Location	AHU 3 - First Floor	E.S.P	400 / 350	Pa	Dwg No.	14354-3-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



TECHNICAL SPECIFICATION SHEET

File: AHS14354-04-B

PROJECT DETAILS			
Date	Project no	Project Reference	Unit No
22 May 2015	14354	Primark Reading	AHS14354-04-B
Customer	Rev date	Customer Reference	Flow (Supply/Exhaust)
	13 January 2016	AHU 4 - Second Floor	4.4700/4.0230 m3/s

UNIT CONSTRUCTION			
Panel Thickness	Panel Insulation	Frame Material	Frame Coating
50 mm	Polyurethane Foam	Galvanised Steel	Painted External
Panel external Sheet	Panel internal Sheet	Base frame	Unit Location
GGrey Platisol	Galvanised Steel	150x75 R.S.C. Shot Blasted & Primed	External
Access side	Unit Model	Roof type	Leakage Class
Right	Non-standard / Non-standard	Twin Pitched Roof	Class B

SECTION WEIGHTS AND DIMENSIONS				
Section No	Length	Width	Height	Weight
A	1800 mm	1600 mm	1360 mm	525 kg
B	1900 mm	1600 mm	1360 mm	563 kg
C	1580 mm	1600 mm	1360 mm	518 kg
D	2250 mm	1300 mm	1360 mm	654 kg

OVERALL UNIT DIMENSIONS			
Length	Width	Height	Total Weight
5280 mm	2900 mm	1360 mm	2260 kg

001 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
4.4700 m3/s	1280 x 1120 mm	175-Low Loss-Galvanised Steel	3.12 m/s	Yes	Weather Hood Galv	No

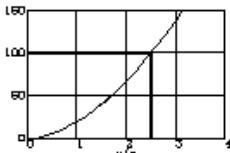
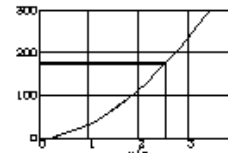
002 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
4.4700 m3/s	1500.00 x 1260.00 mm	-Standard-Galvanised Steel	2.37	No	None	No

002 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
4.4700 m3/s	700.00 x 1120.00 mm	175-Standard-Galvanised Steel	5.70	Yes	None	No

002 Accessories						
• Door Lock 50mm (Size > 1200mm)						
• Door Hinges (Size > 1200mm)						
• Door Handle (Hinged Door)						
• 2D 16W Bulkhead Light c/w Switch						

002 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1260 mm	Hinged door

003 FILTERS

Stage #	Air Volume	class	Spare Filters	Type	Model	Media	Qty Size 1	Qty Size 2	Length mm	
1	4.4700 m3/s	G4	None	Panel	Aeropleat	Cotton / Synthetic Fibre	6x497x597	.	50	
2	4.4700 m3/s	F7	None	Bag	S-Flo-W	Synthetic Fibre	6x490x592	.	500	
1					2					
Clean	Final	Average				Clean	Final	Average		
29 Pa	100 Pa	65 Pa				62 Pa	175 Pa	119 Pa		
										

003 Accessories

- | |
|---|
| ● Minihelic Gauge Minihelic Gauge (0-250Pa) |
| ● Minihelic Gauge Minihelic Gauge (0-500Pa) |
| ● Pressure Tappings |
| ● Lifting Points |

004 PLENUM

Length	500 mm
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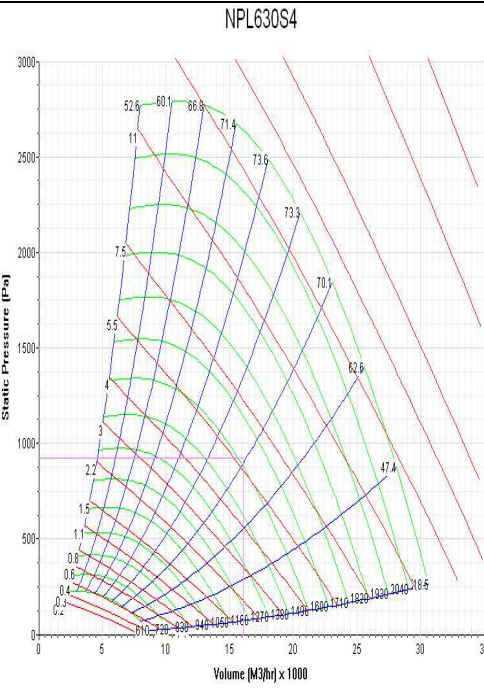
004 Accessories

- | |
|------------------------------------|
| ● Door Lock 50mm (Size > 1200mm) |
| ● Door Hinges (Size > 1200mm) |
| ● Door Handle (Hinged Door) |
| ● 2D 16W Bulkhead Light c/w Switch |
| ● Joining Plates Galvanised Steel |

004 HINGED ACCESS DOOR

Dimensions	Type
500 x 1260 mm	Hinged door

005 PLENUM FAN (Fan Arrangement = Single Fan)

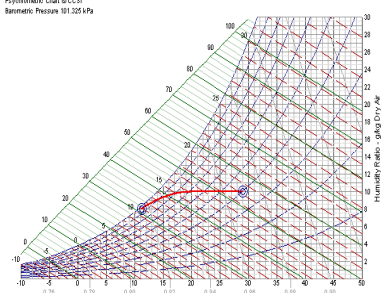
Fan Make	Configuration		Motor Make	Operating Frequency Hz		 			
Comefri	Free Outlet		Comefri	53.89					
Model	Wheel Type		Size	.					
NPL630S4C4EFF11100	Backward Curve		160Lx42Ø	.					
Volume Flow	Outlet Velocity		Poles	.					
4.4700 m3/s	3.0 m/s		4	.					
Ext Static	Speed		Speed	.					
400 Pa	1509 rpm		1400 rpm	.					
Unit Static	Power Input		Power	.					
523 Pa	6.00 kW		11.00 kW	.					
Fan Static Pressure	Static Efficiency		FLC	.					
923 Pa	68.8 %		0.0 A	.					
.	VSD		Volts/Ph/Hz	.					
.	Inverter		380/3/50	.					
.	.		AV Mount Type	.					
			Spring	1	2	3	4		
			AVM Code	OSB20/10	OSB20/10	OSB20/10	OSB20/10		
			AVM Colour	Purple	Purple	Purple	Purple		
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description
Inlet	88	86	86	80	79	76	77	71	SWL Inside the Inlet Duct (dB)
Outlet	86	87	95	92	89	84	85	77	SWL Inside the Outlet Duct (dB)

005 Accessories

- Door Lock 50mm (Size > 1200mm)
- Door Hinges (Size > 1200mm)
- Door Handle (Hinged Door)
- Inspection Window (50mm Panel)
- 2D 16W Bulkhead Light c/w Switch
- Pre- wire motor to external isolator c/w aux contacts
- Pressure Tappings
- Joining Plates Galvanised Steel
- AHU Joining Kit
- Lifting Points
- Guards will be provided at the fan inlets.
- Door guard will be provided.
- Inlet Flex Connection will be provided.

005 HINGED ACCESS DOOR

Dimensions	Type
700 x 1260 mm	Hinged door

006 WATER COOLING COIL												
Flow	Qty	Model						Handing	O/All Dims	Depth	Face Dims	
4.4700 m3/s	1	P40-16AR 7R-28T-1285A-4.0Pa Cu/Al-LHS						Left	1500W x 1200H	550	1285W x 1120H	
Air side	DB	WB	RH	Total Load	Sensible Load	Face Velocity	Pressure Drop	Psychrometric Chart 8°C/31°F Barometric Pressure 101.225 kPa 				
On	29.1 °C	NaN °C	39.6 %	137.86 kW	100.26 kW	3.11 m/s	184 Pa					
Off	11.2 °C	9.9 °C	86.0 %									
Water	Temp	Water Flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size					
In	6.0 °C	1 x 5.490 l/s		12 kPa	None	0 %	1 x 2 1/2"					
Out	12.0 °C						1 x 2 1/2"					
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material	.	SHR	Eliminator	Drain Tray			
33	1.10	Al - Standard	Cu - standard	Copper	Galv Steel	.	73 %	Yes	None			

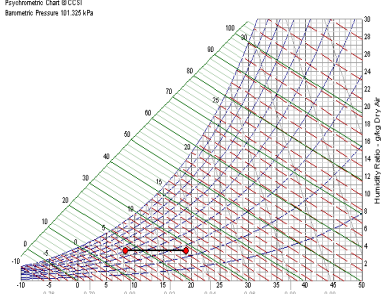
006 COIL PANEL											
Dimensions						Type					
600 x 1260 mm						Coil Panel					

006 DRAIN PAN											
Material						Drain size					
Stainless Steel (316)						1500 mm					

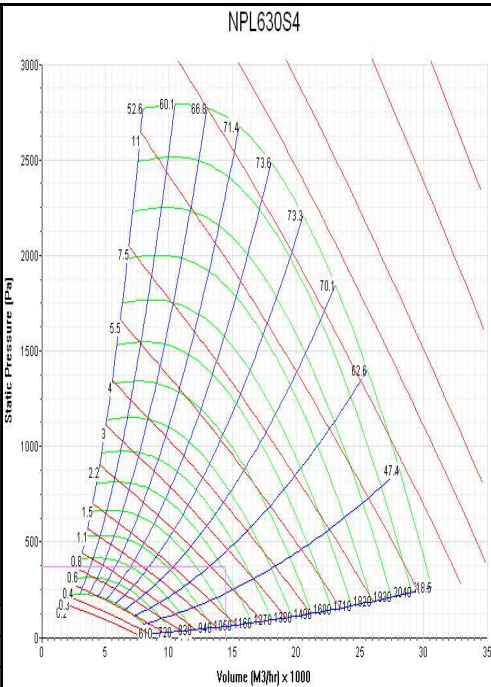
007 PLENUM											
Length						500 mm					

007 Accessories											
- Door Lock 50mm (Size > 1200mm) - Door Hinges (Size > 1200mm) - Door Handle (Hinged Door) 2D 16W Bulkhead Light c/w Switch - Lifting Points											

007 HINGED ACCESS DOOR											
Dimensions						Type					
500 x 1260 mm						Hinged door					

008 HOT WATER COIL											
Flow	Qty	Model						Handing	O/All Dims	Depth	Face Dims
4.4700 m3/s	1	P40-16AC 1R-28T-1315A-3.0Pa Cu/Al-LHS						Left	1500W x 1200H	130	1315W x 1120H
Air side	DB	WB	RH	Total Load	Sensible Load	Face velocity	Pressure Drop	Psychrometric Chart 8°C/31°F Barometric Pressure 101.225 kPa 			
On	8.4 °C	-	.0 %	58.31 kW	58.31 kW	3.04 m/s	29 Pa				
Off	19.0 °C	-	.0 %								
Water	Temp.	Water flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size				
In	70.0 °C	1 x 0.700 l/s		7.0 kPa	None	0 %	1 x 1 1/4"				
Out	50.0 °C						1 x 1 1/4"				
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material						
5	1.10	Al - Standard	Cu - standard	Copper	Galv Steel						

008 COIL PANEL											
Dimensions						Type					
180 x 1260 mm						Coil Panel					

009 DAMPER/FLEX.CONN/LOUVRE													
Flow		Dimensions		Model		Air vel.		Damper		Additional Product		Actuator	
4.4700 m3/s		1500 x 1260 mm		-Standard-Galvanised Steel		2.37 m/s		No		30mm Spigot Galv		No	
0010 DAMPER/FLEX.CONN/LOUVRE													
Flow		Dimensions		Model		Air vel.		Damper		Additional Product		Actuator	
4.0230 m3/s		1200 x 1260 mm		-Standard-Galvanised Steel		2.66 m/s		No		30mm Spigot Galv		No	
0011 PLENUM FAN (Fan Arrangement = Single Fan)													
Fan Make		Configuration		Motor Make		Operating Frequency Hz							
Comefri		Free Outlet		Comefri		65.39							
Model		Wheel Type		Size		.							
NPL630S4C6EFF20550		Backward Curve		132Mx38Ø		.							
Volume Flow		Outlet Velocity		Poles		.							
4.0230 m3/s		2.7 m/s		6		.							
Ext Static		Speed		Speed		.							
350 Pa		1177 rpm		900 rpm		.							
Unit Static		Power Input		Power		.							
20 Pa		2.61 kW		5.50 kW		.							
Fan Static Pressure		Static Efficiency		FLC		.							
370 Pa		57.0 %		0.0 A		.							
.		VSD		Volts/Ph/Hz		.							
.		Inverter		380/3/50		.							
.		.		AV Mount Type		.							
				Spring		1	2	3	4				
				AVM Code		OSB20/10	OSB20/10	OSB20/10	OSB20/10				
				AVM Colour		Purple	Purple	Purple	Purple				
Frequency		63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz				
Inlet		86	88	82	76	76	74	72	65				
Outlet		83	88	90	87	85	81	79	70				
Description													
										SWL Inside the Inlet Duct (dB)			
										SWL Inside the Outlet Duct (dB)			

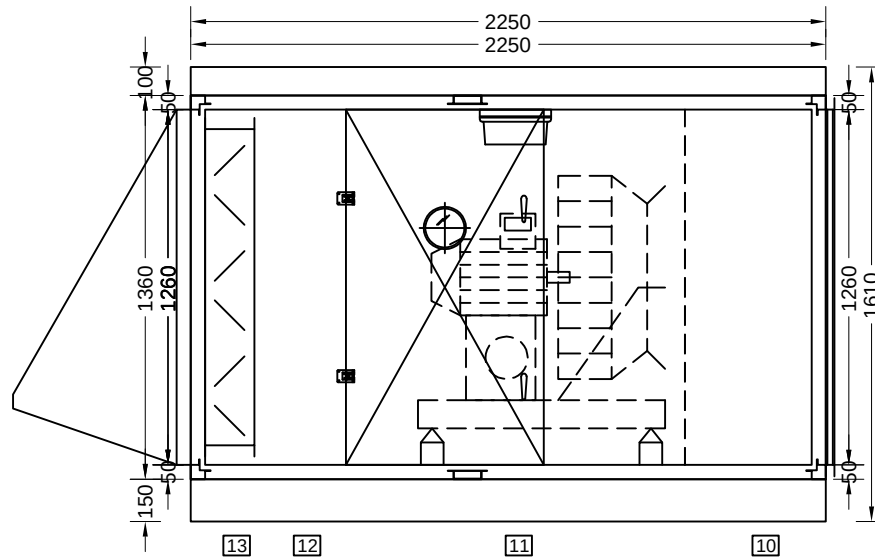
0011 Accessories													
● Door Lock 50mm (Size > 1200mm)													
● Door Hinges (Size > 1200mm)													
● Door Handle (Hinged Door)													
● Inspection Window (50mm Panel)													
● 2D 16W Bulkhead Light c/w Switch													
● Pre- wire motor to external isolator c/w aux contacts													
● Pressure Tappings													
● Lifting Points													
● Guards will be provided at the fan inlets.													
● Door guard will be provided.													
● Inlet Flex Connection will be provided.													

0011 HINGED ACCESS DOOR													
Dimensions		Type											
700 x 1260 mm		Hinged door											

0012 DAMPER/FLEX.CONN/LOUVRE													
Flow		Dimensions		Model		Air vel.		Damper		Additional Product		Actuator	
4.0230 m3/s		1200 x 1260 mm		-Standard-Galvanised Steel		2.66 m/s		No		None		No	

0013 DAMPER/FLEX.CONN/LOUVRE													
Flow		Dimensions		Model		Air vel.		Damper		Additional Product		Actuator	
4.0230 m3/s		980 x 1120 mm		175-Low Loss-Galvanised Steel		3.67 m/s		Yes		Weather Hood Galv		No	

AHU SPECIFIC FAN POWER			
Supply Fan		Extract Fan	
Filter Conditions	Clean	Filter Conditions	Clean
Absorbed Power	5.01 Kw	Absorbed Power	2.61 Kw
Drive Efficiency	100%	Drive Efficiency	100%
Invertor Efficiency	100%	Invertor Efficiency	100%
Motor Efficiency	92%	Motor Efficiency	89%
Air Volume	4.47m3/s	Air Volume	4.02m3/s
AHU SFP	1.87 W/l/s		
Any components selected at 100% are not included in this selection			



ELEVATION FRONT

Section A: Weight = 525Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 563Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 518Kgs

Components

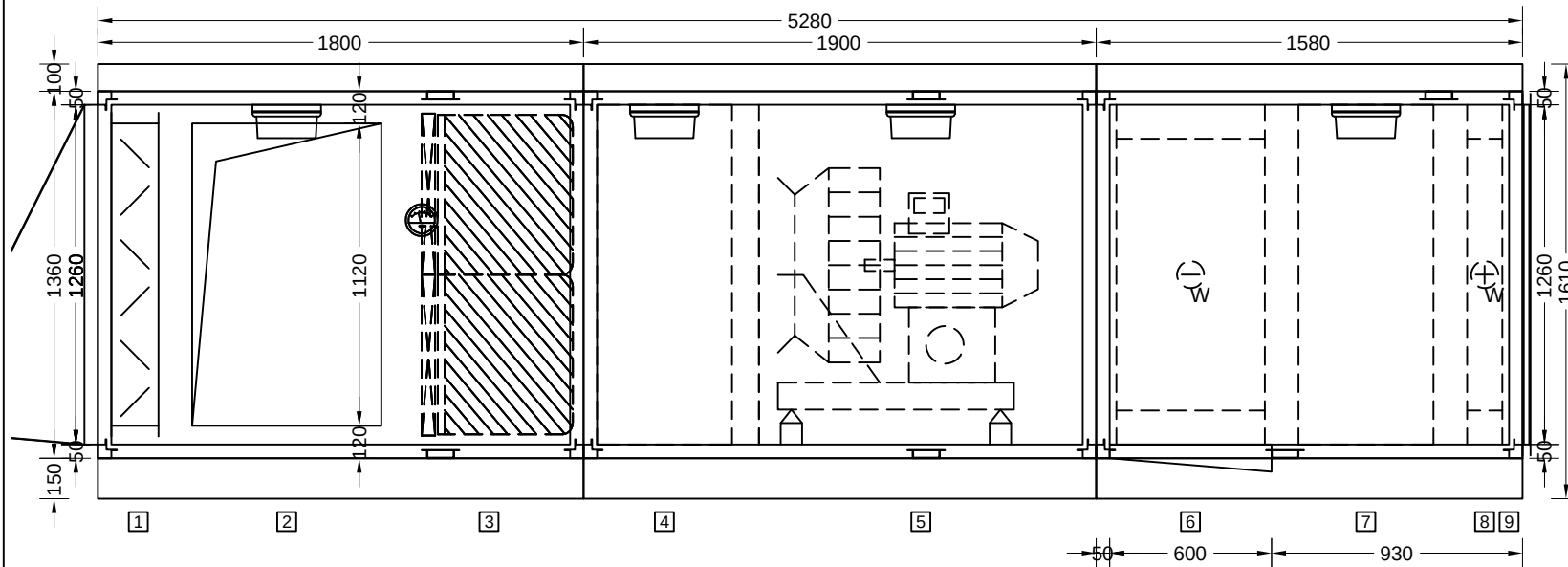
- 6 CW Coil
- 7 Plenum
- 8 LPHW Heater
- 9 Outlet Section

Section D: Weight = 654Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

Customer		Air flow	4.47/4.02	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2260	Kg	AHU No.	4				
Location	AHU 4 - Second Floor	E.S.P	400 / 350	Pa	Dwg No.	14354-4-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 525Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 563Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 518Kgs

Components

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

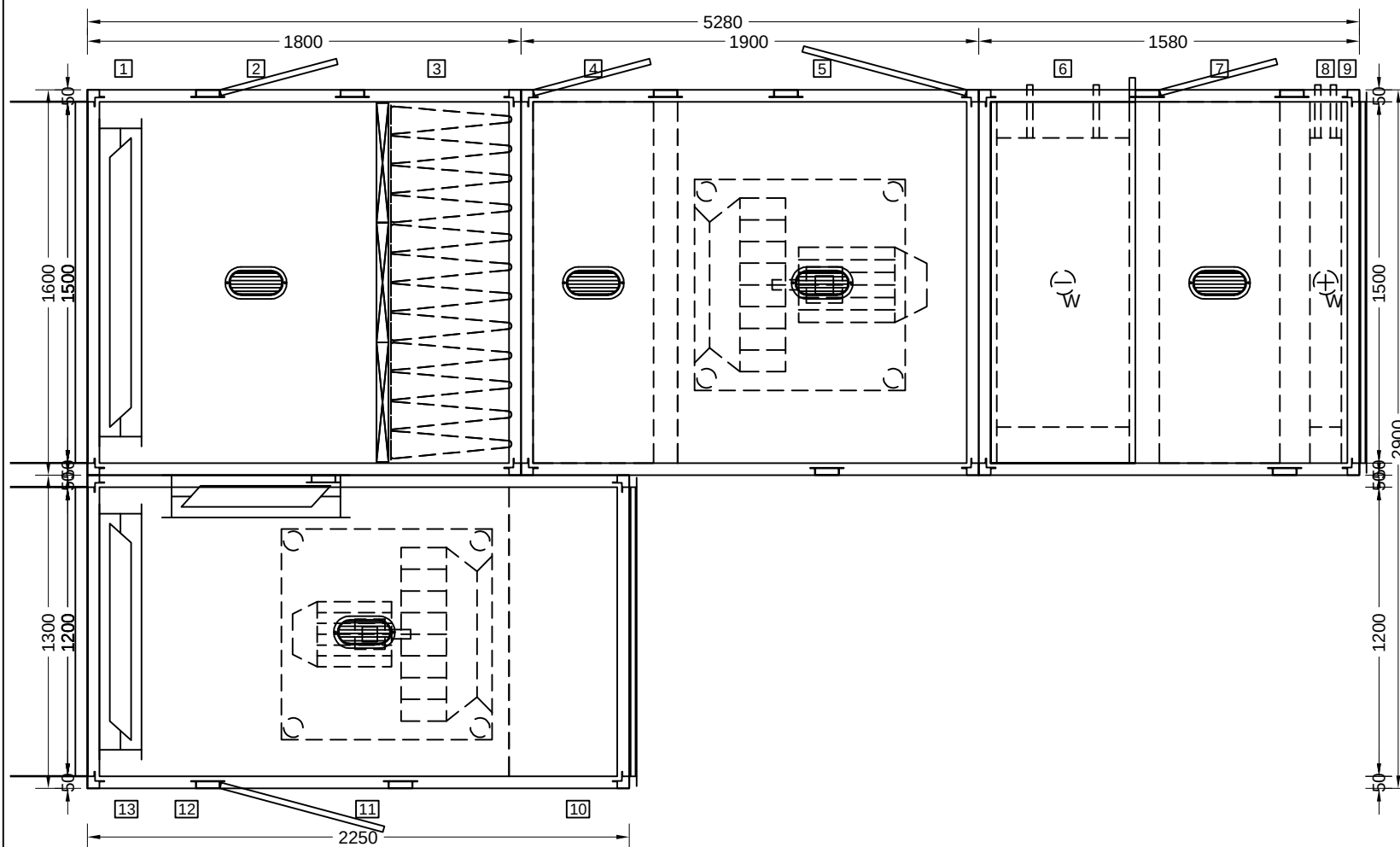
Section D: Weight = 654Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

ELEVATION BACK

Customer		Air flow	4.47/4.02	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2260	Kg	AHU No.	4				
Location	AHU 4 - Second Floor	E.S.P	400 / 350	Pa	Dwg No.	14354-4-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 525Kgs

Components

- 1 Inlet Section
- 2 Economizer Section
- 3 FW Panel & Bag Filter

Section B: Weight = 563Kgs

Components

- 4 Plenum
- 5 Plenum Fan

Section C: Weight = 518Kgs

Components

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

Section D: Weight = 654Kgs

Components

- 10 Inlet Section
- 11 Plenum Fan
- 12 Economizer Section
- 13 Outlet Section

PLAN DECK

Customer		Air flow	4.47/4.02	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2260	Kg	AHU No.	4				
Location	AHU 4 - Second Floor	E.S.P	400 / 350	Pa	Dwg No.	14354-4-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						

TECHNICAL SPECIFICATION SHEET

File: AHS14354-05-B

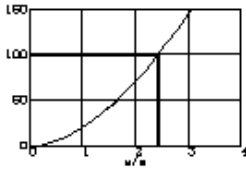
PROJECT DETAILS			
Date	Project no	Project Reference	Unit No
22 July 2015	14354	Primark Reading	AHS14354-05-B
Customer	Rev date	Customer Reference	Flow (Supply/Exhaust)
	13 January 2016	AHU 5 - Staff Area	2.5930/2.6900 m3/s

UNIT CONSTRUCTION			
Panel Thickness	Panel Insulation	Frame Material	Frame Coating
50 mm	Polyurethane Foam	Galvanised Steel	Painted External
Panel external Sheet	Panel internal Sheet	Base frame	Unit Location
GGrey Plastisol	Galvanised Steel	150x75 R.S.C. Shot Blasted & Primed	External
Access side	Unit Model	Roof type	Leakage Class
Right	Non-standard / Non-standard	Twin Pitched Roof	Class B

SECTION WEIGHTS AND DIMENSIONS				
Section No	Length	Width	Height	Weight
A	600 mm	1150 mm	1360 mm	184 kg
B	1300 mm	2300 mm	1360 mm	603 kg
C	600 mm	1150 mm	1360 mm	96 kg
D	1980 mm	1150 mm	1360 mm	520 kg
E	1980 mm	1150 mm	1360 mm	488 kg
F	600 mm	1150 mm	1360 mm	93 kg
G	600 mm	1150 mm	1360 mm	179 kg

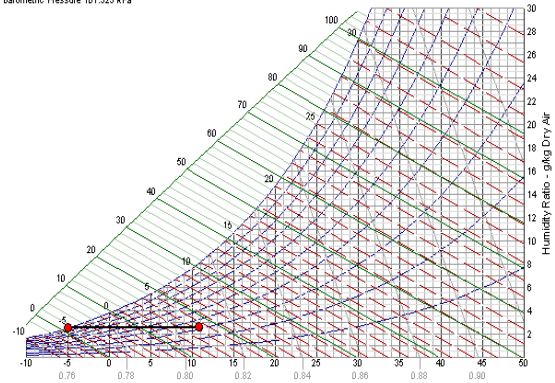
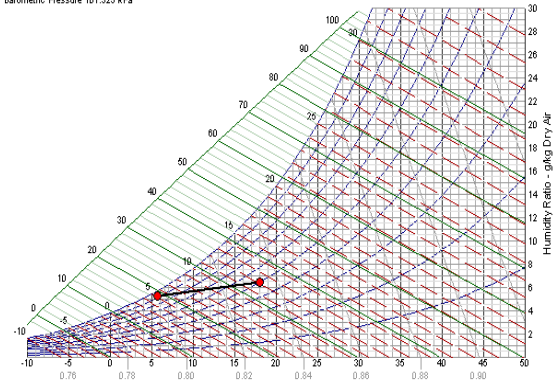
OVERALL UNIT DIMENSIONS			
Length	Width	Height	Total Weight
4480 mm	2300 mm	1360 mm	2163 kg

001 DAMPER/FLEX.CONN/LOUVRE						
Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
2.5930 m3/s	830 x 1120 mm	175-Low Loss-Galvanised Steel	2.79 m/s	Yes	Weather Hood Galv	No

002 FILTERS									
Stage #	Air Volume	class	Spare Filters	Type	Model	Media	Qty.Size 1	Qty.Size 2	Length mm
1	2.5930 m3/s	G4	None	Panel	Aeropleat	Cotton / Synthetic Fibre	2x596x596	2x292x597	50
1									
Clean	Final	Average							
29 Pa	100 Pa	64 Pa							
									

002 Accessories
● Minihelic Gauge Minihelic Gauge (0-250Pa)
● Door Lock 50mm (Size > 1200mm)
● Door Hinges (Size > 1200mm)
● Door Handle (Hinged Door)
● 2D 16W Bulkhead Light c/w Switch

002 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1260 mm	Hinged door

003 Plate Type Heat Exchanger															
Model								Qty	Material	Sealant	.				
SV - 120/X - 120.0 - BSK20,L,H								1	Standard	?	.				
WINTER															
Fresh Air								Exhaust							
m3/s	kW	Eff.%	Inlet		Outlet		Pa	m3/s	kW	Eff.%	Inlet		Outlet		Pa
			C	%	C	%					C	%	C	%	
2.5930	49.40	68.90	-5.0	100.0	10.80	32.50	171.00	2.6900	49.40	68.90	18.0	50.0	5.70	91.70	190.00
Psychrometric Chart @ CCS1 Barometric Pressure 101.325 kPa 								Psychrometric Chart @ CCS1 Barometric Pressure 101.325 kPa 							

003 Accessories
● Lifting Points

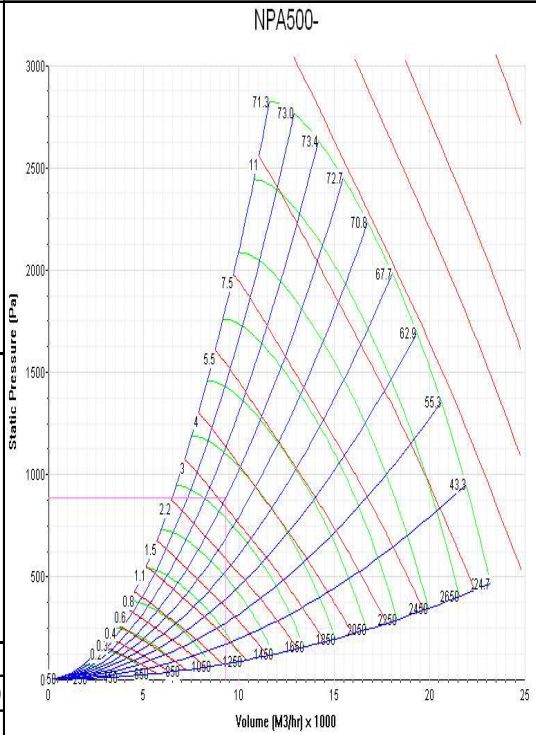
003 DRAIN PAN	
Material	Drain size
Stainless Steel (316)	2200 mm

004 PLENUM	
Length	500 mm

004 Accessories
● Door Lock 50mm (Size > 1200mm)
● Door Hinges (Size > 1200mm)
● Door Handle (Hinged Door)
● Joining Plates Galvanised Steel

004 HINGED ACCESS DOOR	
Dimensions	Type
500 x 1260 mm	Hinged door

005 PLENUM FAN (Fan Arrangement = Single Fan)

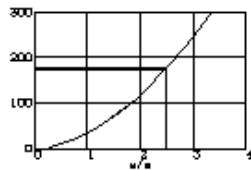
Fan Make	Configuration		Motor Make	Operating Frequency Hz						
Comefri	Free Outlet		Comefri	61.29						
Model	Wheel Type	Size	.							
NPA500-C4EFF10750	Backward Curve	132Mx38Ø	.							
Volume Flow	Outlet Velocity	Poles	.							
2.5930 m3/s	2.6 m/s	4	.							
Ext Static	Speed	Speed	.							
400 Pa	1716 rpm	1400 rpm	.							
Unit Static	Power Input	Power	.							
487 Pa	3.25 kW	7.50 kW	.							
Fan Static Pressure	Static Efficiency	FLC	.							
887 Pa	70.8 %	0.0 A	.							
.	VSD	Volts/Ph/Hz	.							
.	Inverter	380/3/50	.							
.	.	AV Mount Type	.							
		Spring	1	2	3	4				
		AVM Code	OSB20/10	OSB20/10	OSB20/10	OSB20/10				
		AVM Colour	Purple	Purple	Purple	Purple				
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description	
Inlet	81	75	82	74	73	72	70	63	SWL Inside the Inlet Duct (dB)	
Outlet	85	78	87	84	84	80	76	73	SWL Inside the Outlet Duct (dB)	

005 Accessories

- Door Lock 50mm (Size > 1200mm)
- Door Hinges (Size > 1200mm)
- Door Handle (Hinged Door)
- Inspection Window (50mm Panel)
- 2D 16W Bulkhead Light c/w Switch
- Pre- wire motor to external isolator c/w aux contacts
- Pressure Tappings
- AHU Joining Kit
- Lifting Points
- Guards will be provided at the fan inlets.
- Door guard will be provided.
- Inlet Flex Connection will be provided.

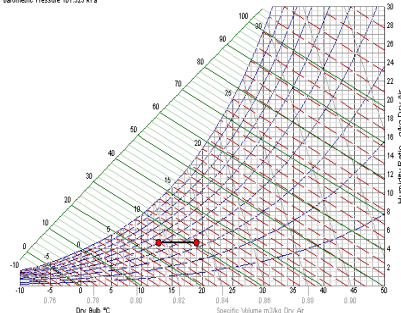
005 HINGED ACCESS DOOR

Dimensions	Type
500 x 1260 mm	Hinged door

006 FILTERS									
Stage #	Air Volume	class	Spare Filters	Type	Model	Media	Qty.Size 1	Qty.Size 2	Length mm
1	2.5930 m3/s	F7	None	Bag	S-Flo-W	Synthetic Fibre	2x592x592	2x287x592	500
1									
Clean	Final	Average							
60 Pa	175 Pa	118 Pa							
									
									

006 Accessories									
- Minihelic Gauge Minihelic Gauge (0-500Pa) - Door Lock 50mm (Size > 1200mm) - Door Hinges (Size > 1200mm) - Door Handle (Hinged Door)									

006 HINGED ACCESS DOOR									
Dimensions					Type				
500 x 1260 mm					Hinged door				

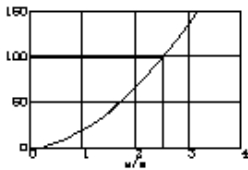
007 HOT WATER COIL											
Flow	Qty	Model						Handing	O/All Dims	Depth	Face Dims
2.5930 m3/s	1	P40-16AC 1R-28T-875A-8.0Pa Cu/Al-RHS						Right	1050W x 1200H	130	875W x 1120H
Air side	DB	WB	RH	Total Load	Sensible Load	Face velocity	Pressure Drop	Psychrometric Chart (DCCSI) Barometric Pressure: 101.325 kPa 			
On	12.8 °C	-	.0 %	19.79 kW	19.79 kW	2.65 m/s	10 Pa				
Off	19.0 °C	-	.0 %								
Water	Temp.	Water flow		Water P.D.	Glycol Type	Glycol Percentage	Connection Size				
In	70.0 °C	1 x 0.240 l/s		8.0 kPa	None	0 %	1 x 1"				
Out	50.0 °C						1 x 1"				
Circuits	Surface Margin	Fin Material	Tube Material	Header Mat	Case Material						
2	1.10	Al - Standard	Cu - standard	Copper	Galv Steel						

007 COIL PANEL									
Dimensions					Type				
180 x 1260 mm					Coil Panel				

008 DAMPER/FLEX.CONN/LOUVRE									
Flow	Dimensions			Model	Air vel.	Damper	Additional Product		Actuator
2.5930 m3/s	1050 x 1260 mm			-Standard-Galvanised Steel	1.96 m/s	No	30mm Spigot Galv		No

009 DAMPER/FLEX.CONN/LOUVRE									
Flow	Dimensions			Model	Air vel.	Damper	Additional Product		Actuator
2.6900 m3/s	1050 x 1260 mm			-Standard-Galvanised Steel	2.03 m/s	No	30mm Spigot Galv		No

0010 FILTERS

Stage #	Air Volume	class	Spare Filters	Type	Model	Media	Qty.Size 1	Qty.Size 2	Length mm
1	2.6900 m3/s	G4	None	Panel	Aeropleat	Cotton / Synthetic Fibre	2x596x596	2x292x597	50
1									
Clean	Final	Average							
30 Pa	100 Pa	65 Pa							
									
									

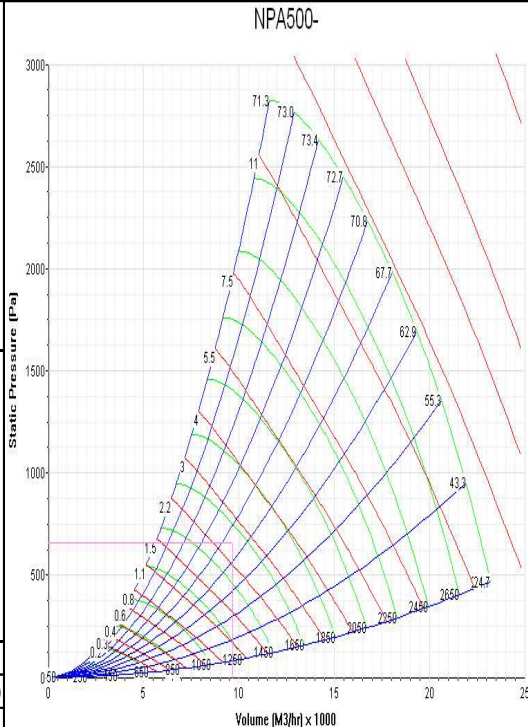
0010 Accessories

- Minihelic Gauge Minihelic Gauge (0-250Pa)
- Door Lock 50mm (Size > 1200mm)
- Door Hinges (Size > 1200mm)
- Door Handle (Hinged Door)
- 2D 16W Bulkhead Light c/w Switch

0010 HINGED ACCESS DOOR

Dimensions	Type
500 x 1260 mm	Hinged door

0011 PLENUM FAN (Fan Arrangement = Single Fan)

Fan Make	Configuration		Motor Make		Operating Frequency Hz		 				NPA500- 	
Comefri	Free Outlet		Comefri		56.75							
Model	Wheel Type	Size		.								
NPA500-C4EFF10550	Backward Curve	132Sx38Ø		.								
Volume Flow	Outlet Velocity	Poles		.								
2.6900 m3/s	2.7 m/s	4		.								
Ext Static	Speed	Speed		.								
350 Pa	1589 rpm	1400 rpm		.								
Unit Static	Power Input	Power		.								
310 Pa	2.62 kW	5.50 kW		.								
Fan Static Pressure	Static Efficiency	FLC		.								
660 Pa	67.7 %	0.0 A		.								
.	VSD	Volts/Ph/Hz		.								
.	Inverter	380/3/50		.								
.	.	AV Mount Type		.								
		Spring	1	2	3	4						
		AVM Code	OSB20/10	OSB20/10	OSB20/10	OSB20/10						
		AVM Colour	Purple	Purple	Purple	Purple						
Frequency	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Description			
Inlet	77	73	83	71	74	69	67	60	SWL Inside the Inlet Duct (dB)			
Outlet	83	78	88	84	84	79	76	72	SWL Inside the Outlet Duct (dB)			

0011 Accessories

- | |
|---|
| ● Door Lock 50mm (Size > 1200mm) |
| ● Door Hinges (Size > 1200mm) |
| ● Door Handle (Hinged Door) |
| ● Inspection Window (50mm Panel) |
| ● 2D 16W Bulkhead Light c/w Switch |
| ● Pre- wire motor to external isolator c/w aux contacts |
| ● Pressure Tappings |
| ● Joining Plates Galvanised Steel |
| ● Lifting Points |
| ● Guards will be provided at the fan inlets. |
| ● Door guard will be provided. |
| ● Inlet Flex Connection will be provided. |

0011 HINGED ACCESS DOOR

Dimensions	Type
500 x 1260 mm	Hinged door

0012 PLENUM

Length	500 mm
---------------	--------

0013 DAMPER/FLEX.CONN/LOUVRE

Flow	Dimensions	Model	Air vel.	Damper	Additional Product	Actuator
2.6900 m3/s	830 x 1120 mm	175-Low Loss-Galvanised Steel	2.89 m/s	Yes	Weather Hood Galv	No

0013 Accessories

- | |
|----------------------------------|
| ● Door Lock 50mm (Size > 1200mm) |
| ● Door Hinges (Size > 1200mm) |
| ● Door Handle (Hinged Door) |

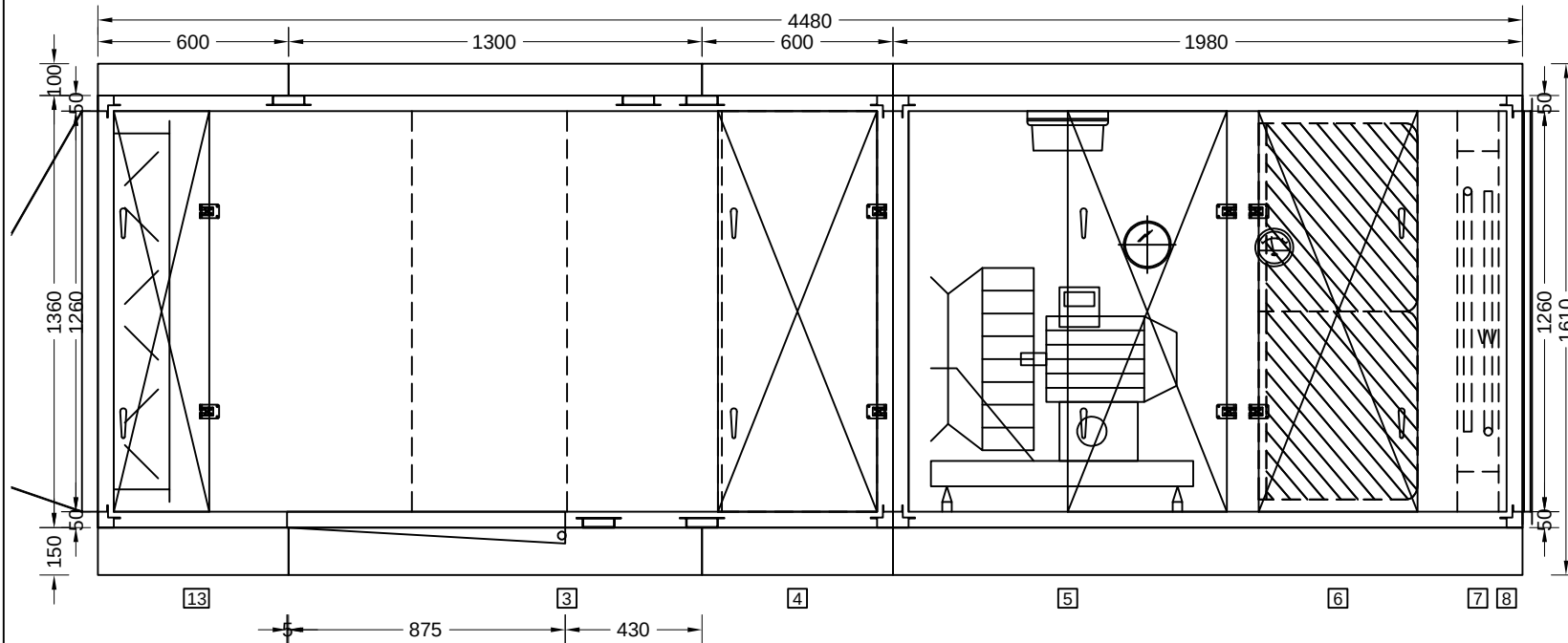
0013 HINGED ACCESS DOOR

Dimensions	Type
300 x 1260 mm	Hinged door

AHU SPECIFIC FAN POWER	
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00
23	0.00
24	0.00
25	0.00
26	0.00
27	0.00
28	0.00
29	0.00
30	0.00
31	0.00
32	0.00
33	0.00
34	0.00
35	0.00
36	0.00
37	0.00
38	0.00
39	0.00
40	0.00
41	0.00
42	0.00
43	0.00
44	0.00
45	0.00
46	0.00
47	0.00
48	0.00
49	0.00
50	0.00
51	0.00
52	0.00
53	0.00
54	0.00
55	0.00
56	0.00
57	0.00
58	0.00
59	0.00
60	0.00
61	0.00
62	0.00
63	0.00
64	0.00
65	0.00
66	0.00
67	0.00
68	0.00
69	0.00
70	0.00
71	0.00
72	0.00
73	0.00
74	0.00
75	0.00
76	0.00
77	0.00
78	0.00
79	0.00
80	0.00
81	0.00
82	0.00
83	0.00
84	0.00
85	0.00
86	0.00
87	0.00
88	0.00
89	0.00
90	0.00
91	0.00
92	0.00
93	0.00
94	0.00
95	0.00
96	0.00
97	0.00
98	0.00
99	0.00
100	0.00

Supply Fan		Extract Fan	
Filter Conditions	Clean	Filter Conditions	Clean
Absorbed Power	2.63 Kw	Absorbed Power	2.39 Kw
Drive Efficiency	100%	Drive Efficiency	100%
Invertor Efficiency	100%	Invertor Efficiency	100%
Motor Efficiency	90%	Motor Efficiency	89%
Air Volume	2.59m3/s	Air Volume	2.69m3/s
AHU SFP	2.09 W/l/s		

Any components selected at 100% are not included in this selection



Section A: Weight = 184Kgs

Components

- 1 Inlet Section
- 2 Panel Filter

Section B: Weight = 603Kgs

Components

- 3 PHX

Section C: Weight = 96Kgs

Components

- 4 Plenum

Section D: Weight = 520Kgs

Components

- 5 Plenum Fan
- 6 Bag Filter
- 7 LPHW Heater
- 8 Outlet Section

Section E: Weight = 488Kgs

Components

- 9 Inlet Section
- 10 Panel Filter
- 11 Plenum Fan

Section F: Weight = 93Kgs

Components

- 12 Plenum

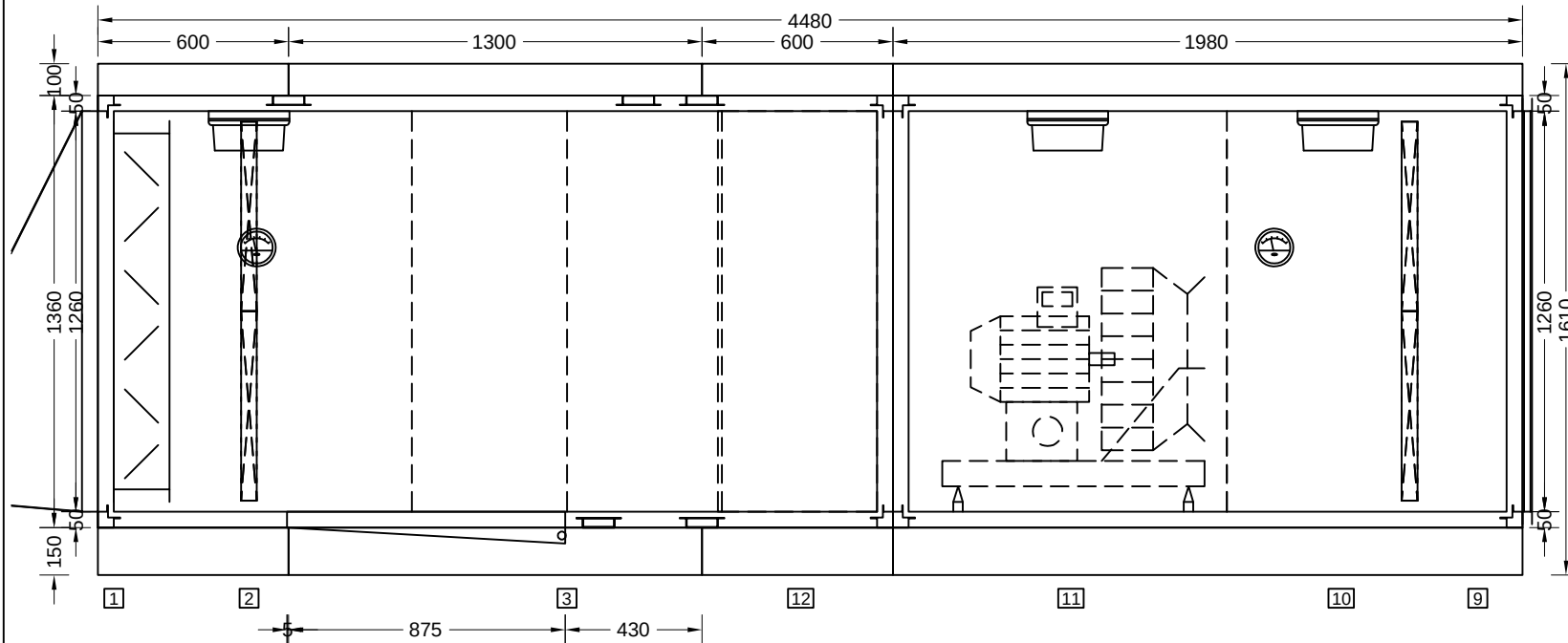
Section G: Weight = 179Kgs

Components

- 13 Outlet Section

ELEVATION FRONT

Customer		Air flow	2.59/2.69	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2163	Kg	AHU No.	5				
Location	AHU 5 - Staff Area	E.S.P	400 / 350	Pa	Dwg No.	14354-5-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 184Kgs

Components

- 1 Inlet Section
- 2 Panel Filter

Section B: Weight = 603Kgs

Components

- 3 PHX

Section C: Weight = 96Kgs

Components

- 4 Plenum

Section D: Weight = 520Kgs

Components

- 5 Plenum Fan
- 6 Bag Filter
- 7 LPHW Heater
- 8 Outlet Section

Section E: Weight = 488Kgs

Components

- 9 Inlet Section
- 10 Panel Filter
- 11 Plenum Fan

Section F: Weight = 93Kgs

Components

- 12 Plenum

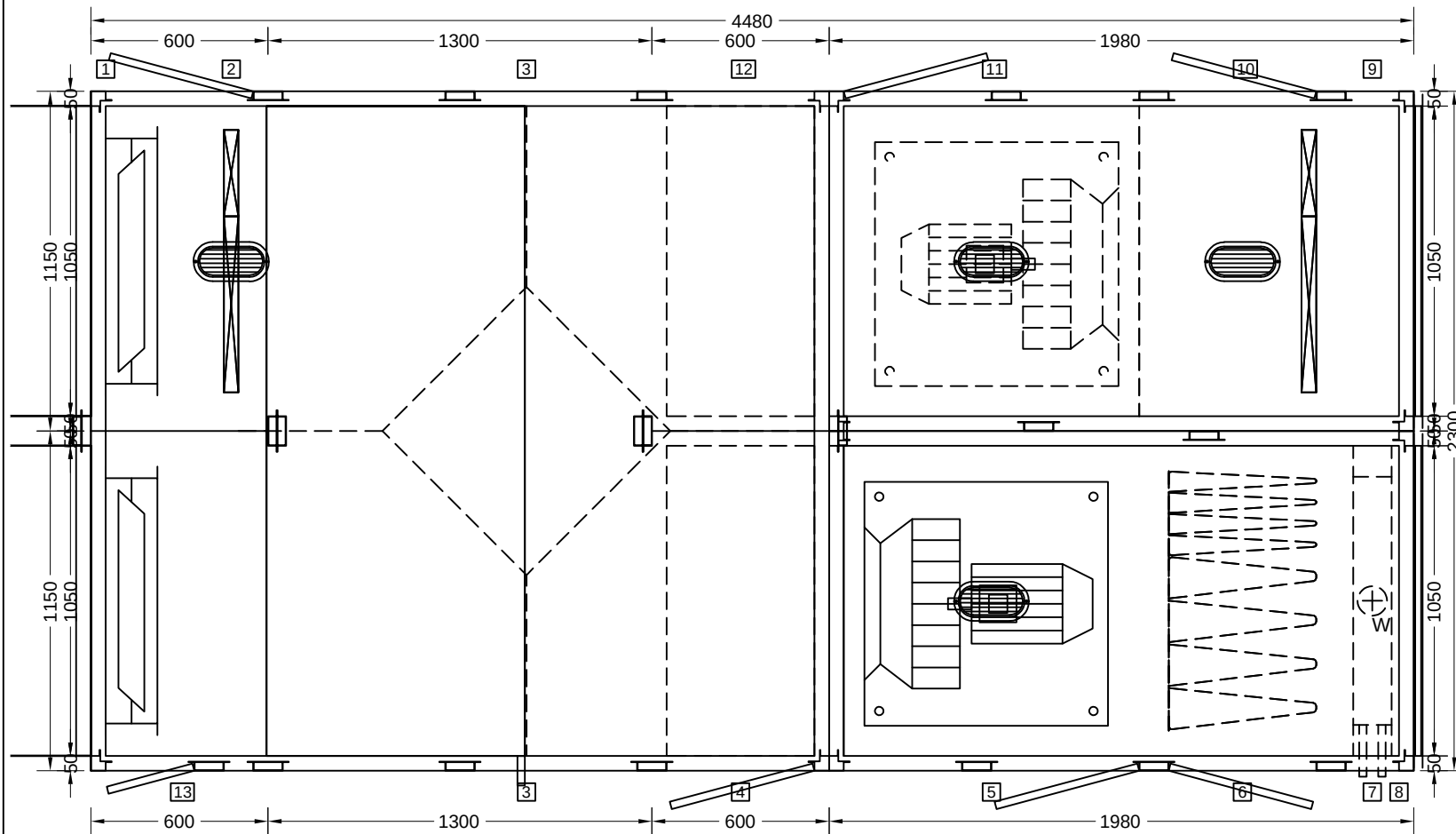
Section G: Weight = 179Kgs

Components

- 13 Outlet Section

ELEVATION BACK

Customer		Air flow	2.59/2.69	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2163	Kg	AHU No.	5				
Location	AHU 5 - Staff Area	E.S.P	400 / 350	Pa	Dwg No.	14354-5-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						



Section A: Weight = 184Kgs

Components

- 1 Inlet Section
- 2 Panel Filter

Section B: Weight = 603Kgs

Components

- 3 PHX

Section C: Weight = 96Kgs

Components

- 4 Plenum

Section D: Weight = 520Kgs

Components

- 5 Plenum Fan
- 6 Bag Filter
- 7 LPHW Heater
- 8 Outlet Section

Section E: Weight = 488Kgs

Components

- 9 Inlet Section
- 10 Panel Filter
- 11 Plenum Fan

Section F: Weight = 93Kgs

Components

- 12 Plenum

Section G: Weight = 179Kgs

Components

- 13 Outlet Section

PLAN DECK

Customer		Air flow	2.59/2.69	m3/s	Not To Scale All Dimensions shown are in mm	This Drawing is property of AHS and should not be re-produced in any form	AIR HANDLING SYSTEMS LTD. 3 - 5 FURNACE INDUSTRIAL ESTATE SHILDON, COUNTY DURHAM. DL4 1QB	No.	Revision	Date
Project	Primark Reading	Weight	2163	Kg	AHU No.	5				
Location	AHU 5 - Staff Area	E.S.P	400 / 350	Pa	Dwg No.	14354-5-B				
Model	Non-standard / Non-standard	Quantity	1	Nos.						