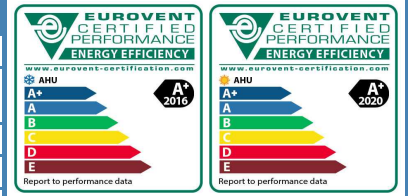
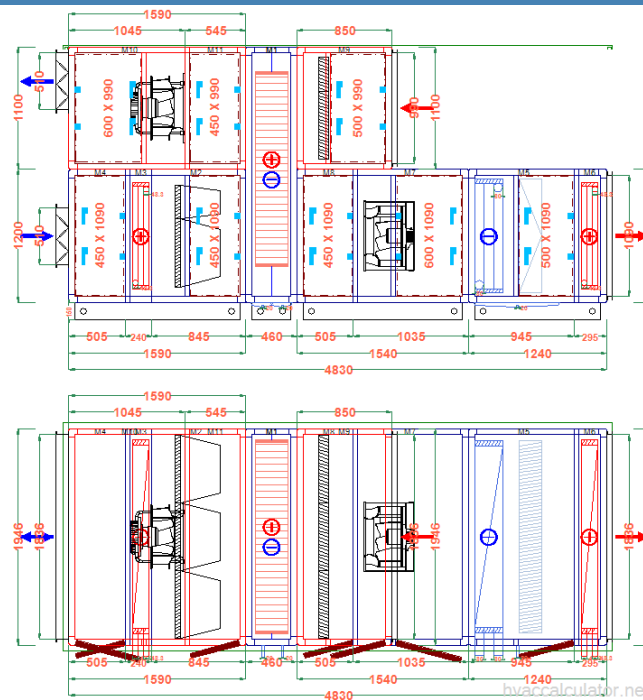


TECHNICAL DATA

Date	23-06-2022	Rev. Date	02-07-2022
Project ID	10237	Tracking Number	
Project Name	Deansgate Manchester - S02		
AHU Name	AHU-02 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 4 H x 6 W [1080 RHE CWC HWC]		



RIGHT VIEW



TOP VIEW

GENERAL SPECIFICATIONS

Air Flow	Return Air Flow	Frame	Dimensions (mm)(Size+Pedestal+Dampers+Pipes)	
10,800 m³/h	7,200 m³/h	P 155/45PS	W 2,096 x H 2,450 x L 4,995	
Air Velocity	Return Air Velocity	Insulation Material	Total Weight	Altitude
1.5 m/s	1 m/s	45 mm Rockwool 70 kg/m³	2,301 kg	78 m
Coil Air Velocity	Air Density	Outside Sheet Material	Base Height	Roof (Outside)
1.94 m/s	1.3021 kg/m³	0.8 mm Painted Galvanized	150 mm	Sheet
Design Outdoor Temp.(W-S)	HRS Capacity (W-S)	Inside Sheet Material	Motor Power	
(-5°C/100%)-(28°C/50%/WB:20.32°C/DP:16.61°C)(MANCHESTER)	79.5 kW - 15.7 kW	0.8 mm Galvanized	4.5 kW / 3 kW	
Total Heating Capacity	Total Cooling Capacity	Total Sensible Capacity	Total Absorbed Power	
137.5 kW	84.6 kW	55.47 kW	5.28 kW	
Specific Fan Power(SFP Total)	ErP Compliance	ErP Code	External Static Pressure	Return External Static Pressure
1,614 W/(m³/s)	2016 & 2018	NRVU - BVU	200 Pa	450 Pa

SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	74.4	79.8	70.4	68.3	62.2	65.3	85.5	84.5	dB
Air Outlet Induct Sound Power Level	68.3	79.6	85.9	86.3	83.9	82.5	85.5	91.3	dB
Air Inlet Induct Sound Power Level	62.3	65.2	59.0	55.6	39.4	14.9	22.9	60.7	dB
Return Air Outlet Induct Sound Power Level	66.2	72.5	75.8	78.0	75.5	75.7	68.2	82.0	dB
Return Air Inlet Induct Sound Power Level	65.4	62.0	54.4	56.6	37.9	14.9	18.0	59.6	dB

MB MECHANICAL PROPERTY CLASSIFICATIONS

Model	CS Class	CAL Class -400 Pa (M) -400 Pa (R)	CAL Class +700 Pa (M) +400 Pa (R)	FBL Class	TT Class	TBF Class	CASING ACOUSTICAL INSULATION [dB]						
							125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Model Box RW 45	D1 (M)	L1 (M)/L1 (R)	L1 (M)/L1 (R)	F9	T4	TB4	16	22	29	32	34	39	46

ACCESSORIES

Manometer Pressure Gauge_Dwyer Magnehelic 500 (x3),Pressure Measurement Tap Set (x4),Maintenance Switch (x2)

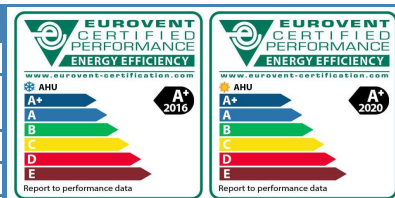


COMPLETE VENTILATION
SOLUTIONS LTD.

HVACALC V. 2.2.3.51
27-06-2022

Page 2/10

TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
Project ID	10237	Tracking Number	
Project Name	Deansgate Manchester - S02		
AHU Name	AHU-02 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 4 H x 6 W [1080 RHE CWC HWC]		

**FRESH AIR CONNECTION**

Connection Type	Control Type	Pressure Drop
Gear Damper	Manual	5 Pa
Air Flow	Dimensions	Air Velocity
10,800 m³/h	W 918 mm x H 510 mm x (2)	3.2 m/s

SUPPLY CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		10 Pa
Air Flow	Dimensions	Air Velocity
10,800 m³/h	W 1,836 mm x H 1,090 mm	1.5 m/s

RETURN CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		10 Pa
Air Flow	Dimensions	Air Velocity
7,200 m³/h	W 1,836 mm x H 990 mm	1.1 m/s

EXHAUST CONNECTION

Connection Type	Control Type	Pressure Drop
Gear Damper	Manual	3 Pa
Air Flow	Dimensions	Air Velocity
7,200 m³/h	W 918 mm x H 510 mm x (2)	2.14 m/s

EMPTY SECTION (M4)

Air Flow	Droplet Eliminator	Condensation Pan	Pressure Drop	Section Weight
10,800 m³/h			0 Pa	172.7 kg

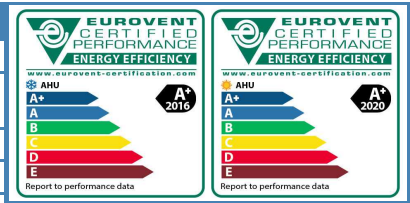


COMPLETE VENTILATION
SOLUTIONS LTD.

HVACALC V. 2.2.3.51
27-06-2022

Page 3/10

TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
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Project Name	Deansgate Manchester - S02		
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AHU Model	ATC Comfort Line 4 H x 6 W [1080 RHE CWC HWC]		

**COIL (Heating) (M3)**

Air Flow	Capacity	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
10,800 m³/h	65.42 kW		2.06 m/s	6	1	112.7 kg
Coil Code			Tube Material	Fin Material		Function
32 x 28 12 C S 28T 2R 1641A 6P 14NC			Copper	Aluminium		Heating
Droplet Elimin. / Press. Drop		Condensation Pan / Hmin U-Trap	Tube Thickness	Fin Thickness		Mixing Ratio
			0.35 mm	0.12 mm		%
Fluid Kind		Fluid In / Out	Size (W x H x L) mm	Conn. Material		Frame Material
WATER		60/50 °C	1,641 x 889 x 145	Steel		Galvanized Steel
Air Inlet Drybulb Temperature		Air Outlet Drybulb Temperature				
-5 °C		11.61 °C				
Air Inlet Wetbulb Temperature		Air Outlet Wetbulb Temperature				
-5 °C		4.64 °C				
Air Inlet Relative Humidity		Air Outlet Relative Humidity				
100.00 %		29.39 %				
Air Inlet - Outlet Enthalpy		Fluid Flow / Vol. Flow				
1.51 - 17.99 kJ/kg		5,630 kg/h / 5,726 dm³/h				
Air Press.Drop		Fluid Press.Drop / Fluid Velocity				
15 Pa		14.37 kPa / 1.04 m/s				
Coil Surface Area		Tube Inner Volume				
26.75 m²		13.10 L				
Manifold / Conn.QTY		Conn.Direction				
1 / 1		Right				
Connection Sizes						
48.3 / 48.3 mm (1-1/2" DN40 / 1-1/2" DN40)						
Bypass Damper			Air Condensation		Hygienic	Blygold
			1.7573 l/h		☐	☐

Dry Bulb Temperature (°C)

FILTER (M2)

Air Flow	Condensation Pan	Hygienic	Spare Filter	Section Weight
10,800 m³/h		☐	☐	204.9 kg
Filter Type	G4 - Coarse 60% Panel			
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
30 Pa / 80 Pa / 55 Pa	1.92 m/s	592x592x48/3/NA	592x287x48/3/NA	
Filter Type	F7 - ePM2.5 - 70% Bag			
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
56 Pa / 156 Pa / 106 Pa	1.92 m/s	592x592x360/3/A	592x287x360/3/A	

* Filter Energy Performance; preferably energy classification

* G4 - Coarse 60% : Certified according to EN 16890:2016 / ISO 17065:2012

* F7 - ePM2.5 - 70% : Certified according to EN 16890:2016 / ISO 17065:2012

* Frame sealing applied.

**ACCESSORIES (M2)**

Manometer Pressure Gauge_Dwyer Magnehelic 500 (x2),Pressure Measurement Tap Set



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Office Tel: +44 800 111 4469
Office Fax:

Factory Tel:
Factory Fax:



Designer: Artur Altunkeser

04.07.2022

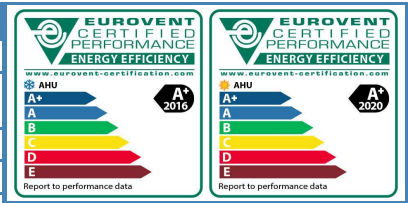
HVAC Calculator

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HVACALC V. 2.2.3.51
27-06-2022

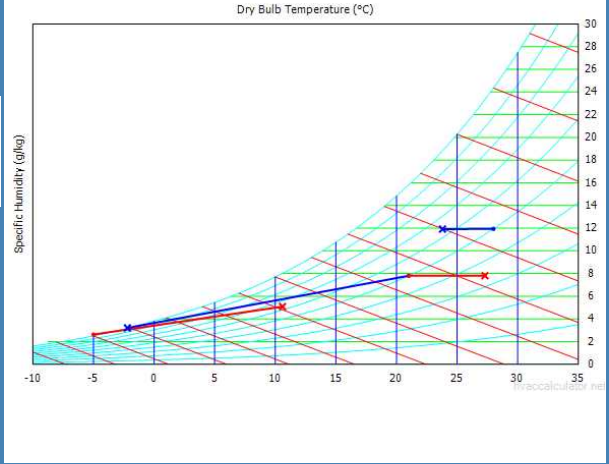
Page 4/10

TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
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AHU Model	ATC Comfort Line 4 H x 6 W [1080 RHE CWC HWC]		



ROTARY HEAT EXCHANGER (M1)

Model										Rpm	Quantity	Section Weight
ST1-NL-WV-1700-SM-V7-A1-5,W1750,H1750										15	1	335 kg
		Fresh Air		Exhaust		Capacity		Winter		Summer		
Air Flow		10,800 m³/h		7,200 m³/h				79.5 kW		15.7 kW		
Air Vel.		2.7 m/s		1.8 m/s				Fresh Air		Exhaust		
		Winter		Summer		P.D		92 Pa		66 Pa		
		Effic.		Balan.(*)		1.2kg/m³		104 Pa		66 Pa		
Temp.Effic.		60.00 %		73.20 %				100 Pa		66 Pa		
Hum.Effic.		48.70 %		54.40 %								
ErP Effic.		73.10 %		73.10 %								
		Winter				Summer						
		Fresh Air		Exhaust		Fresh Air		Exhaust				
		Inlet		Outlet		Inlet		Outlet				
DT		-5 °C		10.6 °C		21 °C		-2.2 °C		28 °C		
WT		-5 °C		7.33 °C		14.57 °C		-2.25 °C		20.32 °C		
RH		100.00 %		63.70 %		50.00 %		99.00 %		50.00 %		



* Efficiency at balanced flow

* OACF: Outdoor Air Correction Factor, EATR: Exhaust Air Transfer Ratio

EMPTY SECTION (M8)

Air Flow	Droplet Eliminator	Condensation Pan	Pressure Drop	Section Weight
10,800 m³/h			-20 Pa	113 kg

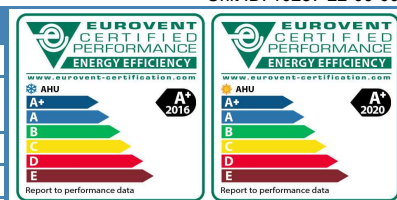


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HVACALC V. 2.2.3.51
27-06-2022

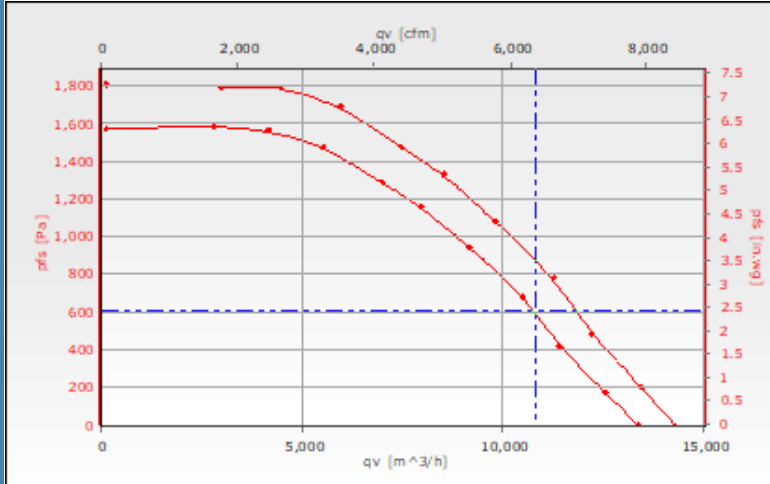
Page 5/10

TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
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Project Name	Deansgate Manchester - S02		
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AHU Model	ATC Comfort Line 4 H x 6 W [1080 RHE CWC HWC]		



SUPPLY FAN (M7)

Air Flow	Motor Type	Fan Model	Quantity	Section Weight
10,800 m³/h	EC	K3G450PA3103- *	1	284.9 kg
Internal Static Pressure	Motor P./Pha./Volt./Freq.	Isolator	Isolator Count	
409 Pa	4.5 kW/3P/400V/50-60V-Hz			
External Static Pressure		Backup Fan	Backup Motor	Backup Inverter
200 Pa		0	0	0
Total Static Pressure				
609 Pa				
Total Pressure	System Effect			
722 Pa	16 Pa			
Total / Static Efficiency				
62.92 / 53.04 %				
Shaft Power / Absorbed Power	Absorbed Pow.With VFD			
3.44 / 3.44 kW	3.44 kW			
Fan Speed				
2311 rpm (Max. 2480 rpm)				
	Air Density			
	1.2050 kg/m³			
Specific Fan Power (SFP _e int)	Electrical Current			
247.9 W/(m³/s)	4.97 A (Max. 6.50 A)			



The graph displays the fan's performance characteristics. The x-axis represents air flow (qv) in m³/h, ranging from 0 to 15,000. The y-axis represents static pressure (ps) in Pa, ranging from 0 to 1,800. A red curve shows the fan's performance, and a blue dashed line indicates the operating point at approximately 10,800 m³/h and 609 Pa. The graph also includes a secondary y-axis for pressure in bar (0 to 7.5) and a secondary x-axis for air flow in cfm (0 to 8,000).

Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	77.2	80.6	84.6	85.9	87.1	86.8	82.8	85.5	92.7	dB(A)
Inlet Side	72.8	79.6	84.6	83.3	78.6	79.6	79.3	86.1	88.8	dB(A)

* The fan system effect is taken into account in the fan performance

* The fan calculated for wet conditions

ACCESSORIES (M7)

Maintenance Switch, Pressure Measurement Tap Set



COMPLETE VENTILATION SOLUTIONS LTD.

2.2.3.51
27-06-2022

HVACALC V.
Page 6/10

TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
Project ID	10237	Tracking Number	
Project Name	Deansgate Manchester - S02		
AHU Name	AHU-02 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 4 H x 6 W [1080 RHE CWC HWC]		

EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY

AHU A+ 2016

EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY

AHU A+ 2020

Report to performance data

COIL (Cooling) (Wet Surface) (M5)

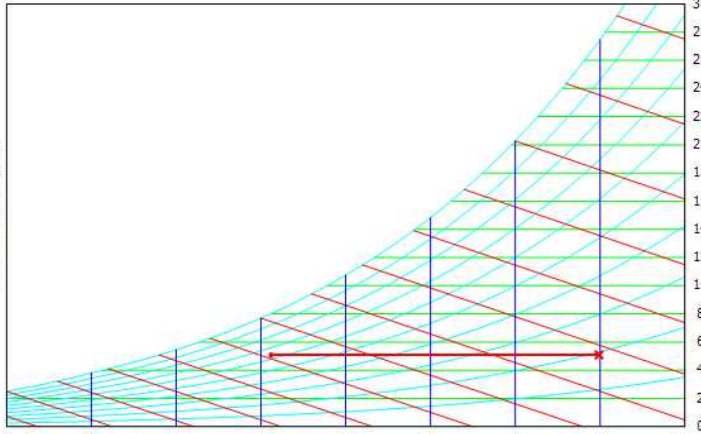
Air Flow	Capacity / Sensible	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
10,800 m³/h	84.6/55.47 kW		1.94 m/s	2.1	1	340 kg
Coil Code	Tube Material		Fin Material		Function	
32 x 28 12 C S 30T 5R 1626A 2.1P 37NC	Copper		Aluminium		Cooling	
Droplet Elimin. / Press. Drop	Tube Thickness		Fin Thickness		Mixing Ratio	
Polypropylene / 30 Pa / 32.38 kg / QTY:1	0.35 mm		0.12 mm		%	
Fluid Kind	Size (W x H x L) mm		Conn. Material		Frame Material	
ETHYLENE GLYCOL %20	1,626 x 953 x 250		Copper		Stainless Steel (304)	
Fluid In / Out	Air Inlet Drybulb Temperature		Air Outlet Drybulb Temperature			
5/10.01 °C	28 °C		12.18 °C			
Air Inlet Wetbulb Temperature	Air Inlet Relative Humidity		Air Outlet Relative Humidity			
20.32 °C	50.00 %		96.18 %			
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow		Fluid Press.Drop / Fluid Velocity			
58.64 - 33.9 kJ/kg	16,088 kg/h / 15,554 dm³/h		17.80 kPa / 1.07 m/s			
Air Press.Drop(Wet/Dry)	Coil Surface Area		Tube Inner Volume			
80 Pa / 61 Pa	185.7 m²		36.77 L			
Manifold / Conn.QTY	Conn.Direction					
1 / 1	Right					
Connection Sizes	Air Condensation		Hygienic		Blygold	
80 / 80 mm (3-1/8" DN80 / 3-1/8" DN80)	41.8958 l/h		☐		☐	
Bypass Damper						

Dry Bulb Temperature (°C)

Specific Humidity (g/kg)

 COMPLETE VENTILATION SOLUTIONS LTD. HVACCALC V.2.2.3.5127-06-2022 Page7/10		TECHNICAL DATA				
		Date	23-06-2022	Rev. Date	02-07-2022	
		Project ID	10237	Tracking Number		
		Project Name	Deansgate Manchester - S02			
		AHU Name	AHU-02 - Alternative - (1 QTY)			
		AHU Model	ATC Comfort Line 4 H x 6 W [1080 RHE CWC HWC]			

COIL (Heating) (M6)

Air Flow	Capacity	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
10,800 m³/h	72.04 kW		2.06 m/s	3.2	1	152.9 kg
Coil Code			Tube Material	Fin Material	Function	
32 x 28 12 C S 28T 2R 1641A 3.2P 14NC			Copper	Aluminium	Heating	
Droplet Elimin. / Press. Drop		Condensation Pan / Hmin U-Trap	Tube Thickness	Fin Thickness	Mixing Ratio	
			0.35 mm	0.12 mm	%	
Fluid Kind	Fluid In / Out		Size (W x H x L) mm	Conn. Material	Frame Material	
WATER	60/50 °C		1,641 x 889 x 145	Steel	Galvanized Steel	
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature		Dry Bulb Temperature (°C) 			
10.6 °C	29.95 °C					
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature					
7.33 °C	15.41 °C					
Air Inlet Relative Humidity	Air Outlet Relative Humidity					
63.70 %	19.23 %					
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow					
23.48 - 43.12 kJ/kg	6,200 kg/h / 6,306 dm³/h					
Air Press.Drop	Fluid Press.Drop / Fluid Velocity					
20 Pa	17.20 kPa / 1.14 m/s					
Coil Surface Area	Tube Inner Volume					
47.12 m²	13.10 L					
Manifold / Conn.QTY	Conn.Direction					
1 / 1	Right					
Connection Sizes						
48.3 / 48.3 mm (1-1/2" DN40 / 1-1/2" DN40)						
Bypass Damper			Air Condensation		Hygienic	Blygold
			0.0000 l/h		☐	☐

FILTER (M9)

Air Flow	Condensation Pan	Hygienic	Spare Filter	Section Weight
7,200 m³/h		☐	☐	178.9 kg
Filter Type M5 - ePM10 - 55% Panel				
Initial / Final / Design P.Drop 23 Pa / 69 Pa / 46 Pa	Air Velocity 1.28 m/s	Size/Quantity/EC* 592x592x95/3/A+	Size/Quantity/EC* 592x287x95/3/A+	Size/Quantity/EC* 592x287x95/3/A+
* Filter Energy Performance; preferably energy classification				
* M5 - ePM10 - 55% : Certified according to EN 16890:2016 / ISO 17065:2012				
* Frame sealing applied.				



ACCESSORIES (M9)

Manometer Pressure Gauge_Dwyer Magnehelic 500, Pressure Measurement Tap Set



EMPTY SECTION (M11)

Air Flow	Droplet Eliminator	Condensation Pan	Pressure Drop	Section Weight
7,200 m³/h			0 Pa	106.4 kg

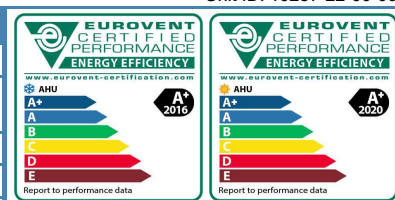


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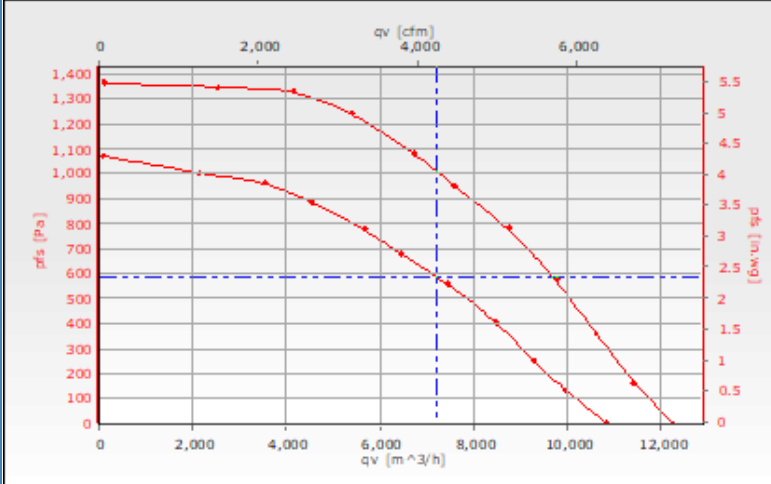
HVACALC V. 2.2.3.51
27-06-2022

Page 8/10

TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
Project ID	10237	Tracking Number	
Project Name	Deansgate Manchester - S02		
AHU Name	AHU-02 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 4 H x 6 W [1080 RHE CWC HWC]		



EXHAUST FAN (M10)

Air Flow	Motor Type	Fan Model	Quantity	Section Weight
7,200 m³/h	EC	K3G450PA2371	1	299.8 kg
Internal Static Pressure	Motor P./Pha./Volt./Freq.	Isolator	Isolator Count	
139 Pa	3 kW/3P/400V/50-60V-Hz			
External Static Pressure		Backup Fan	Backup Motor	Backup Inverter
450 Pa		0	0	0
Total Static Pressure				
589 Pa				
Total Pressure	System Effect			
639 Pa	14 Pa			
Total / Static Efficiency				
69.71 / 64.21 %				
Shaft Power / Absorbed Power	Absorbed Pow. With VFD			
1.83 / 1.83 kW	1.83 kW			
Fan Speed				
1819 rpm (Max. 2140 rpm)				
	Air Density			
	1.2050 kg/m³			
Specific Fan Power (SFP _e int)	Electrical Current			
127.7 W/(m³/s)	2.65 A (Max. 4.33 A)			

Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	66.4	74.3	73.4	75.8	78.0	76.3	75.7	68.2	82.9	dBA
Inlet Side	64.3	74.5	73.4	70.4	71.6	71.2	73.4	64.9	78.5	dBA

* The fan system effect is taken into account in the fan performance

* The fan calculated for wet conditions

ACCESSORIES (M10)

Maintenance Switch, Pressure Measurement Tap Set



COMPLETE VENTILATION SOLUTIONS LTD.

HVACALC V. 2.2.3.51
27-06-2022

Page 9/10

TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
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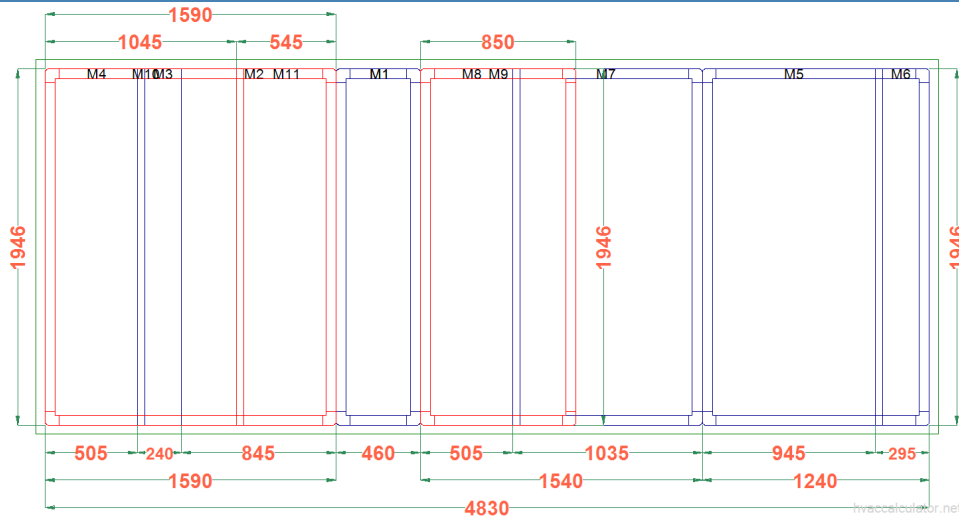
EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY

AHU A+ 2016

EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY

AHU A+ 2020

LOADING SIZES



LOADING SIZES

Section	Width	Height	Length	Weight	Total Weight
Empty - (M4)	2,006 mm	1,350 mm	620 mm	172.7 kg	172.7 kg
Heating Coil - (M3)	2,096 mm	1,350 mm	240 mm	112.7 kg	112.7 kg
Filter - (M2)	2,006 mm	1,350 mm	845 mm	204.9 kg	204.9 kg
Rotary Heat Exchanger - (M1)	1,946 mm	2,450 mm	460 mm	335 kg	335 kg
Empty - (M8)	2,006 mm	1,350 mm	505 mm	113 kg	113 kg
Fan - (M7)	2,006 mm	1,350 mm	1,035 mm	284.9 kg	284.9 kg
Cooling Coil - (M5)	2,096 mm	1,350 mm	945 mm	340 kg	340 kg
Heating Coil - (M6)	2,096 mm	1,350 mm	345 mm	152.9 kg	152.9 kg
Filter - (M9)	2,006 mm	1,100 mm	900 mm	178.9 kg	178.9 kg
Empty - (M11)	2,006 mm	1,100 mm	545 mm	106.4 kg	106.4 kg
Fan - (M10)	2,006 mm	1,100 mm	1,160 mm	299.8 kg	299.8 kg
				2,301 kg	2,301 kg

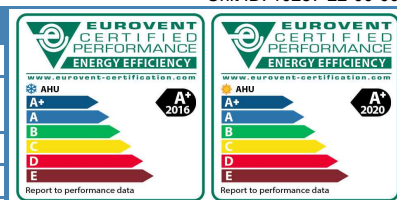


COMPLETE VENTILATION
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HVACALC V. 2.2.3.51
27-06-2022

Page 10/10

TECHNICAL DATA			
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Ecodesign Requirements Table					
		Value		2016	2018
	Product	ATC Comfort Line			
	Erp	2016 & 2018			
A	Manufacturer	CVS			
B	Model Identifier	ATC Comfort Line 4 H x 6 W			
C	ErP Code	NRVU - BVU			
D	Type Of Drive	Variable Speed Drive (VSD)	Variable Speed Drive (VSD)	Required	Required
E	Type Of HRS	Rotary			
	HRS Damper	Exists		Required	Required
F	Thermal Efficiency of HRS	73.20 %		>= 67 %	>= 73 %
G	Nominal Flow Rate	3.00 m³/s	2.00 m³/s		
H	Effective Electrical Power Input	3.44 kW	1.83 kW		
I	SFPInt	247.9 W/(m³/s)	127.7 W/(m³/s)	<= 1086	<= 806
J	Face Velocity	1.5 m/s	1 m/s		
K	Nominal External Drop Δps, Ext	200 Pa	450 Pa		
L	Internal Pressure Drop Δps, Int	409 Pa	139 Pa		
M	Additional Pressure Drop Δps, Add	113 Pa	50 Pa		
N	Static Fan Efficiency EC327/2011	53.04 %	64.21 %		
O	Declared Maximum Ext./Int. Leakage Rate	1.14 %			
P	Energy Performance Of Filters	NA	A+		
Q	Description Of Visual Filter Warning	Manometer Pressure Gauge	Manometer Pressure Gauge		Required
R	Casing Sound Power Level (Lwa)	64.5 dBA			
S	Internet Address Of Instructions	www.completeventsolutions.co.uk			