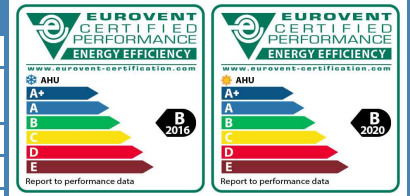
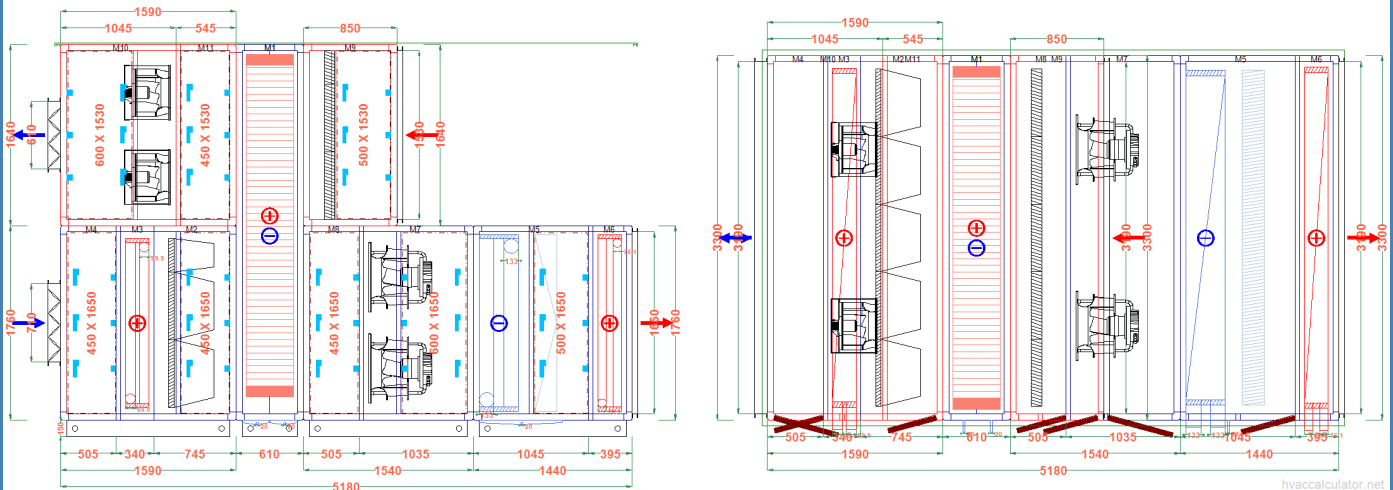


TECHNICAL DATA

Date	23-06-2022	Rev. Date	02-07-2022
Project ID	10237	Tracking Number	
Project Name	Deansgate Manchester - S02		
AHU Name	AHU-01 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]		



RIGHT VIEW



TOP VIEW

GENERAL SPECIFICATIONS

Air Flow		Return Air Flow		Frame		Dimensions (mm)(Size+Pedestal+Dampers+Pipes)	
37,800 m³/h		32,580 m³/h		P 155/45PS		W 3,450 x H 3,550 x L 5,345	
Air Velocity		Return Air Velocity		Insulation Material		Total Weight	Altitude
1.99 m/s		1.72 m/s		45 mm Rockwool 70 kg/m³		4,782 kg	78 m
Coil Air Velocity		Air Density		Outside Sheet Material		Base Height	Roof (Outside)
2.31 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)		318 kW - 63.7 kW		0.8 mm Galvanized		5.4 kW x 4 / 3.65 kW x 4	
Total Heating Capacity		Total Cooling Capacity		Total Sensible Capacity		Total Absorbed Power	
337 kW		285.9 kW		184.2 kW		27.26 kW	
Specific Fan Power(SFP Total)		ErP Compliance	ErP Code	External Static Pressure		Return External Static Pressure	
2,279 W/(m³/s)		2016 & 2018	NRVU - BVU	400 Pa		450 Pa	

SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	80.6	85.6	73.8	83.6	67.0	73.7	87.5	88.5	dBA
Air Outlet Induct Sound Power Level	73.1	84.1	88.6	99.1	87.9	88.3	87.5	99.1	dBA
Air Inlet Induct Sound Power Level	67.2	67.5	58.8	59.8	41.6	16.4	22.8	63.3	dBA
Return Air Outlet Induct Sound Power Level	74.7	88.1	90.1	91.6	92.0	87.9	88.9	96.5	dBA
Return Air Inlet Induct Sound Power Level	74.8	77.1	71.6	67.4	44.6	16.8	25.4	73.1	dBA

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

 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-01 - Alternative - (1 QTY)		
		AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]	
		 		

ACCESSORIES

Manometer Pressure Gauge_Dwyer Magnehelic 500 (x3),Pressure Measurement Tap Set (x5),Maintenance Switch (x2)



FRESH AIR CONNECTION

Connection Type	Control Type	Pressure Drop
Gear Damper	Manual	9 Pa
Air Flow	Dimensions	Air Velocity
37,800 m³/h	W 1,063 mm x H 710 mm x (3)	4.64 m/s

SUPPLY CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		10 Pa
Air Flow	Dimensions	Air Velocity
37,800 m³/h	W 3,190 mm x H 1,650 mm	1.99 m/s

RETURN CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		10 Pa
Air Flow	Dimensions	Air Velocity
32,580 m³/h	W 3,190 mm x H 1,530 mm	1.85 m/s

EXHAUST CONNECTION

Connection Type	Control Type	Pressure Drop
Gear Damper	Manual	9 Pa
Air Flow	Dimensions	Air Velocity
32,580 m³/h	W 1,063 mm x H 610 mm x (3)	4.65 m/s

EMPTY SECTION (M4)

Air Flow	Droplet Eliminator	Condensation Pan	Pressure Drop	Section Weight
37,800 m³/h			0 Pa	318 kg

COMPLETE VENTILATION SOLUTIONS LTD.  HVACALC V. 2.2.3.51 27-06-2022 Page 3/10	TECHNICAL DATA				 www.eurovent-certification.com AHU A+ A B C D E B 2016 Report to performance data  www.eurovent-certification.com AHU A+ A B C D E B 2020 Report to performance data
	Date	23-06-2022	Rev. Date	02-07-2022	
	Project ID	10237	Tracking Number		
	Project Name	Deansgate Manchester - S02			
	AHU Name	AHU-01 - Alternative - (1 QTY)			
AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]				

COIL (Heating) (M3)						
Air Flow	Capacity	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
37,800 m³/h	211.6 kW		2.42 m/s	6	1	262.3 kg
Coil Code			Tube Material	Fin Material	Function	
32 x 28 12 C S 46T 2R 2970A 6P 46NC			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	2,970 x 1,461 x 215	Steel	Galvanized Steel	
Air Inlet Drybulb Temperature		Air Outlet Drybulb Temperature	Dry Bulb Temperature (°C)			

FILTER (M2)					
Air Flow	Condensation Pan		Hygienic	Spare Filter	Section Weight
37,800 m³/h			☐	☐	328 kg
Filter Type					
G4 - Coarse 60% Panel					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
48 Pa / 98 Pa / 73 Pa	2.41 m/s	592x592x48/10/NA	592x287x48/5/NA		
Filter Type					
F7 - ePM2.5 - 70% Bag					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
88 Pa / 188 Pa / 138 Pa	2.41 m/s	592x592x360/10/C	592x287x360/5/C		
* 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.					



COMPLETE VENTILATION SOLUTIONS LTD. 		TECHNICAL DATA				 AHU A+ A B C D E B 2016 Report to performance data  AHU A+ A B C D E B 2020 Report to performance data
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		Project Name	Deansgate Manchester - S02			
		AHU Name	AHU-01 - Alternative - (1 QTY)			
		AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]			

ACCESSORIES (M2)

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



ROTARY HEAT EXCHANGER (M1)

Model	Rpm	Quantity	Section Weight
ST1-LL-SV-2900-PR-V7-A1-5,W3100,H3100	15	1	941 kg

	Fresh Air		Exhaust		Capacity	Winter		Summer		
Air Flow	37,800 m³/h		32,580 m³/h			318 kW		63.7 kW		
Air Vel.	3.2 m/s		2.8 m/s							
Temp.Effic.	Winter		Summer		P.D	Fresh Air	Exhaust	Fresh Air	Exhaust	
	Effic.	Balan.(%)	Effic.	Balan.(%)	1.2kg/m³	166 Pa	155 Pa	188 Pa	155 Pa	
	68.90 %	73.30 %	68.90 %	73.30 %		182 Pa	154 Pa	182 Pa	154 Pa	
	Hum.Effic.	55.40 %	56.20 %	0.00 %		0.00 %				
	ErP Effic.	73.10 %	73.10 %							

Air Inlet / Outlet	Winter				Summer			
	Fresh Air		Exhaust		Fresh Air		Exhaust	
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
	DT	-5 °C	12.9 °C	21 °C	0.2 °C	28 °C	23.2 °C	21 °C
WT	-5 °C	8.8 °C	14.57 °C	0.1432 °C	20.32 °C	18.87 °C	14.57 °C	16.58 °C
RH	100.00 %	58.40 %	50.00 %	99.00 %	50.00 %	66.80 %	50.00 %	35.60 %

Condensation Pan	OACF (*)	EATR (%) (*)
Stainless Steel 304 (20 mm (ød)) (Connection:Right) (Pressure:Negative)	1.12	0.29

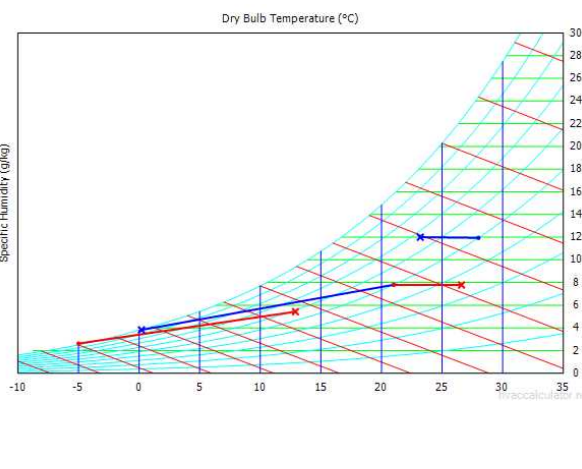
Frequency Inverter	Size mm	Bypass Damper
	(3,100 x 3,100 x 430) - 2,900	

* 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
37,800 m³/h			-20 Pa	174.3 kg



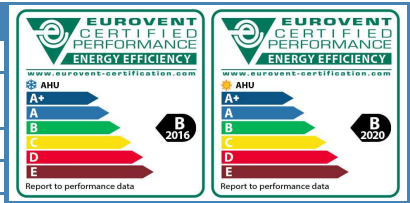


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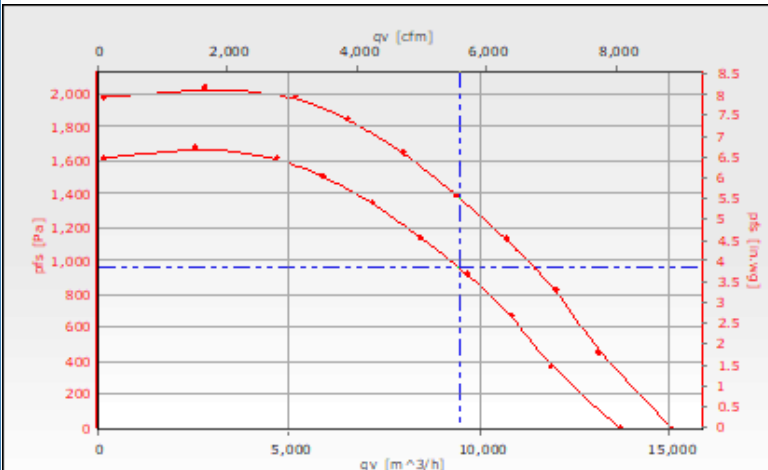
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TECHNICAL DATA			
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Project ID	10237	Tracking Number	
Project Name	Deansgate Manchester - S02		
AHU Name	AHU-01 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]		



SUPPLY FAN (M7)						
Air Flow		Motor Type	Fan Model		Quantity	Section Weight
9,450 m³/h x 4 (37,800 m³/h)		EC	K3G450PB2401- *		4	620 kg
Internal Static Pressure		Motor P./Pha./Volt./Freq.	Isolator		Isolator Count	
565 Pa		5.4 kW/3P/400V/50-60V-Hz				
External Static Pressure			Backup Fan	Backup Motor	Backup Inverter	
400 Pa			0	0	0	
Total Static Pressure						
965 Pa						
Total Pressure	System Effect					
1,052 Pa	14 Pa					
Total / Static Efficiency						
71.25 / 65.37 %						
Shaft Power / Absorbed Power		Absorbed Pow.With VFD				
3.88 / 3.88 kW x 4		3.88 kW x 4				
Fan Speed						
2352 rpm (Max. 2600 rpm)						
		Air Density				
		1.2050 kg/m³				
Specific Fan Power (SFPe int)		Electrical Current				
379 W/(m³/s)		5.59 A x 4 (Max. 7.79 A x 4)				



qv [m³/h]	Pa [Pa] (Fan)	Pa [Pa] (System)
0	2000	1600
2000	1950	1550
4000	1800	1400
6000	1500	1100
8000	1100	800
10000	700	400
12000	300	100
14000	100	50
15000	0	0

Sound Power Level (dB)									
Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot
Outlet Side	76.9	86.0	89.1	88.6	99.4	90.9	88.5	87.5	100.9 dBA
Inlet Side	71.3	84.2	86.9	83.1	83.0	83.2	85.8	85.8	91.6 dBA

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

* The fan calculated for wet conditions

* Sound power level values are calculated for multiple fans

ACCESSORIES (M7)

Maintenance Switch, Pressure Measurement Tap Set



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TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
Project ID	10237	Tracking Number	
Project Name	Deansgate Manchester - S02		
AHU Name	AHU-01 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]		

EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY

Report to performance data

EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY

Report to performance data

COIL (Cooling) (Wet Surface) (M5)										
Air Flow	Capacity / Sensible	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight				
37,800 m³/h	285.9/184.2 kW		2.35 m/s	2.5	1	732 kg				
Coil Code			Tube Material	Fin Material	Function					
38 x 33 15 C S 40T 5R 2930A 2.5P 50NC			Copper	Aluminium	Cooling					
Droplet Elimin. / Press. Drop		Condensation Pan / Hmin U-Trap	Tube Thickness	Fin Thickness	Mixing Ratio					
Polypropylene / 30 Pa / 75.99 kg / QTY:1		Stainless Steel 304 (20 mm (ød)) (Connection:Right) (Pressure:Positive) / 98.47 mm	0.35 mm	0.12 mm	%					
Fluid Kind		Fluid In / Out	Size (W x H x L) mm	Conn. Material	Frame Material					
ETHYLENE GLYCOL %20		5/10.01 °C	2,930 x 1,524 x 355	Copper	Stainless Steel (304)					
Air Inlet Drybulb Temperature		Air Outlet Drybulb Temperature	Dry Bulb Temperature (°C) Specific Humidity (g/kg)							
28 °C		12.99 °C								
Air Inlet Wetbulb Temperature		Air Outlet Wetbulb Temperature								
20.32 °C		12.18 °C								
Air Inlet Relative Humidity		Air Outlet Relative Humidity								
50.00 %		91.40 %								
Air Inlet - Outlet Enthalpy		Fluid Flow / Vol. Flow								
58.64 - 34.75 kJ/kg		54,362 kg/h / 52,556 dm³/h								
Air Press.Drop(Wet/Dry)		Fluid Press.Drop / Fluid Velocity								
110 Pa / 75 Pa		47.05 kPa / 1.7 m/s								
Coil Surface Area		Tube Inner Volume								
534 m²		143.03 L								
Manifold / Conn.QTY		Conn.Direction								
1 / 1		Right								
Connection Sizes							Air Condensation			
133 / 133 mm (5" DN125 / 5" DN125)							145.9983 l/h			
Bypass Damper							Hygienic ☐			
							Blygold ☐			

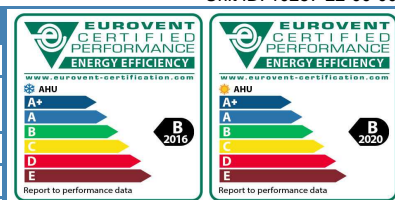


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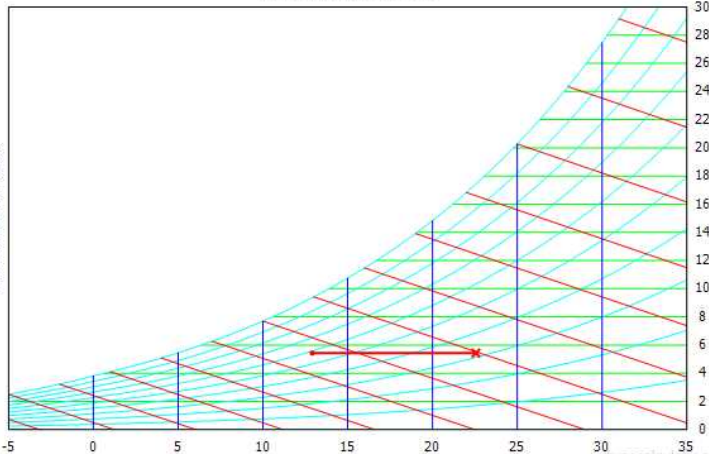
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TECHNICAL DATA			
Date	23-06-2022	Rev. Date	02-07-2022
Project ID	10237	Tracking Number	
Project Name	Deansgate Manchester - S02		
AHU Name	AHU-01 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]		



COIL (Heating) (M6)						
Air Flow	Capacity	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
37,800 m³/h	125 kW		2.31 m/s	3	1	302 kg
Coil Code			Tube Material	Fin Material	Function	
38 x 33 15 C S 40T 1R 2985A 3P 20NC			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	2,985 x 1,524 x 215	Steel	Galvanized Steel	
Air Inlet Drybulb Temperature		Air Outlet Drybulb Temperature				
12.9 °C		22.56 °C				
Air Inlet Wetbulb Temperature		Air Outlet Wetbulb Temperature				
8.8 °C		12.92 °C				
Air Inlet Relative Humidity		Air Outlet Relative Humidity				
58.40 %		31.75 %				
Air Inlet - Outlet Enthalpy		Fluid Flow / Vol. Flow				
26.69 - 36.5 kJ/kg		10,753 kg/h / 10,937 dm³/h				
Air Press.Drop		Fluid Press.Drop / Fluid Velocity				
15 Pa		6.95 kPa / 0.88 m/s				
Coil Surface Area		Tube Inner Volume				
91.64 m²		32.66 L				
Manifold / Conn.QTY		Conn.Direction				
1 / 1		Right				
Connection Sizes						
76.1 / 76.1 mm (2-1/2" DN65 / 2-1/2" DN65)						
Bypass Damper			Air Condensation		Hygienic	Blygold
			0.0031 l/h		☐	☐

Dry Bulb Temperature (°C)



Specific Humidity (g/kg)

FILTER (M9)					
Air Flow	Condensation Pan		Hygienic	Spare Filter	Section Weight
32,580 m³/h			☐	☐	314 kg
Filter Type					
M5 - ePM10 - 55% Panel					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
70 Pa / 170 Pa / 120 Pa	2.23 m/s	592x592x95/5/D	592x287x95/5/D	592x490x95/5/D	
* 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)

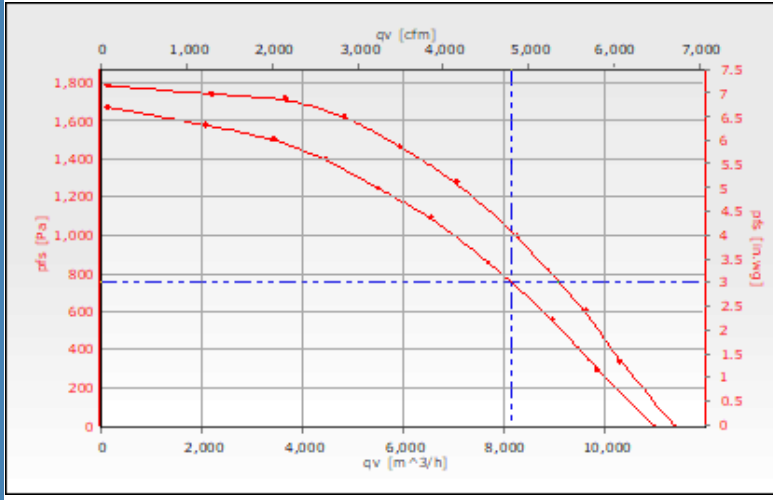
Air Flow	Droplet Eliminator	Condensation Pan	Pressure Drop	Section Weight
32,580 m³/h			0 Pa	164.1 kg

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AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]		



Report to performance data

EXHAUST FAN (M10)						
Air Flow		Motor Type	Fan Model		Quantity	Section Weight
8,145 m³/h x 4 (32,580 m³/h)		EC	K3G400PA2703- *		4	625 kg
Internal Static Pressure		Motor P./Pha./Volt./Freq.	Isolator		Isolator Count	
307 Pa		3.65 kW/3P/400V/50-60V-Hz				
External Static Pressure			Backup Fan	Backup Motor	Backup Inverter	
450 Pa			0	0	0	
Total Static Pressure						
757 Pa						
Total Pressure	System Effect					
859 Pa	13 Pa					
Total / Static Efficiency						
66.06 / 58.24 %						
Shaft Power / Absorbed Power		Absorbed Pow.With VFD				
2.94 / 2.94 kW x 4		2.94 kW x 4				
Fan Speed						
2606 rpm (Max. 2800 rpm)						
		Air Density				
		1.2050 kg/m³				
Specific Fan Power (SFPe int)		Electrical Current				
339 W/(m³/s)		4.24 A x 4 (Max. 5.27 A x 4)				



The graph displays the performance characteristics of the exhaust fan. The x-axis represents flow rate (qv) in m³/h, ranging from 0 to 10,000. The y-axis represents pressure (p) in Pa, ranging from 0 to 1,800. Two curves are shown: a red curve for total pressure and a blue curve for static pressure. A vertical dashed line is drawn at 8,000 m³/h, and a horizontal dashed line is drawn at 800 Pa. The curves show that the total pressure decreases as the flow rate increases, and the static pressure also decreases as the flow rate increases.

qv [m³/h]	Static Pressure [Pa]	Total Pressure [Pa]
0	1,800	1,800
2,000	1,750	1,750
4,000	1,650	1,650
6,000	1,450	1,450
8,000	1,150	1,150
10,000	750	750

Sound Power Level (dB)									
Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot
Outlet Side	81.9	83.8	89.1	90.1	91.6	93.0	87.9	88.9	97.9 dBA
Inlet Side	78.3	83.5	88.4	88.8	83.0	82.1	81.5	87.8	91.8 dBA

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

* The fan calculated for wet conditions

* Sound power level values are calculated for multiple fans

ACCESSORIES (M10)

Maintenance Switch, Pressure Measurement Tap Set



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Project ID	10237	Tracking Number	
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AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]		

EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY

AHU A+ A B C D E

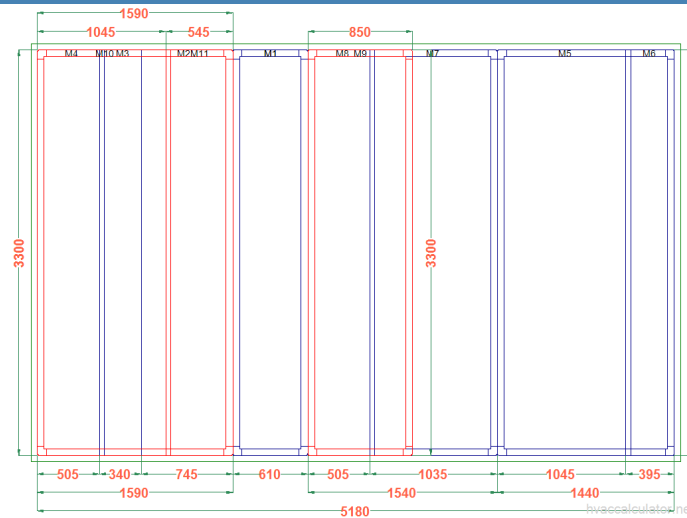
Report to performance data

EUROVENT CERTIFIED PERFORMANCE ENERGY EFFICIENCY

AHU A+ A B C D E

Report to performance data

LOADING SIZES



LOADING SIZES

Section	Width	Height	Length	Weight	Total Weight
Empty - (M4)	3,360 mm	1,910 mm	620 mm	318 kg	318 kg
Heating Coil - (M3)	3,450 mm	1,910 mm	340 mm	262.3 kg	262.3 kg
Filter - (M2)	3,360 mm	1,910 mm	745 mm	328 kg	328 kg
Rotary Heat Exchanger - (M1)	3,300 mm	3,550 mm	610 mm	941 kg	941 kg
Empty - (M8)	3,360 mm	1,910 mm	505 mm	174.3 kg	174.3 kg
Fan - (M7)	3,360 mm	1,910 mm	1,035 mm	620 kg	620 kg
Cooling Coil - (M5)	3,450 mm	1,910 mm	1,045 mm	732 kg	732 kg
Heating Coil - (M6)	3,450 mm	1,910 mm	445 mm	302 kg	302 kg
Filter - (M9)	3,360 mm	1,640 mm	900 mm	314 kg	314 kg
Empty - (M11)	3,360 mm	1,640 mm	545 mm	164.1 kg	164.1 kg
Fan - (M10)	3,360 mm	1,640 mm	1,160 mm	625 kg	625 kg
				4,782 kg	4,782 kg

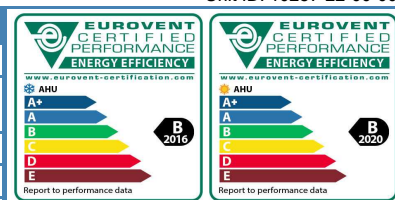


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Project Name	Deansgate Manchester - S02		
AHU Name	AHU-01 - Alternative - (1 QTY)		
AHU Model	ATC Comfort Line 5 H x 10 W [3780 RHE CWC HWC]		



Ecodesign Requirements Table					
		Value		2016	2018
	Product	ATC Comfort Line			
	Erp	2016 & 2018			
A	Manufacturer	CVS			
B	Model Identifier	ATC Comfort Line 5 H x 10 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	73.30 %		>= 67 %	>= 73 %
G	Nominal Flow Rate	10.50 m³/s	9.05 m³/s		
H	Effective Electrical Power Input	3.88 kW x 4	2.94 kW x 4		
I	SFPInt	379 W/(m³/s)	339 W/(m³/s)	<= 1089	<= 809
J	Face Velocity	1.99 m/s	1.72 m/s		
K	Nominal External Drop Δps, Ext	400 Pa	450 Pa		
L	Internal Pressure Drop Δps, Int	565 Pa	307 Pa		
M	Additional Pressure Drop Δps, Add	87 Pa	102 Pa		
N	Static Fan Efficiency EC327/2011	65.37 %	58.24 %		
O	Declared Maximum Ext./Int. Leakage Rate	1.12 %			
P	Energy Performance Of Filters	NA	D		
Q	Description Of Visual Filter Warning	Manometer Pressure Gauge	Manometer Pressure Gauge		Required
R	Casing Sound Power Level (Lwa)	87.9 dBA			
S	Internet Address Of Instructions	www.completeventsolutions.co.uk			