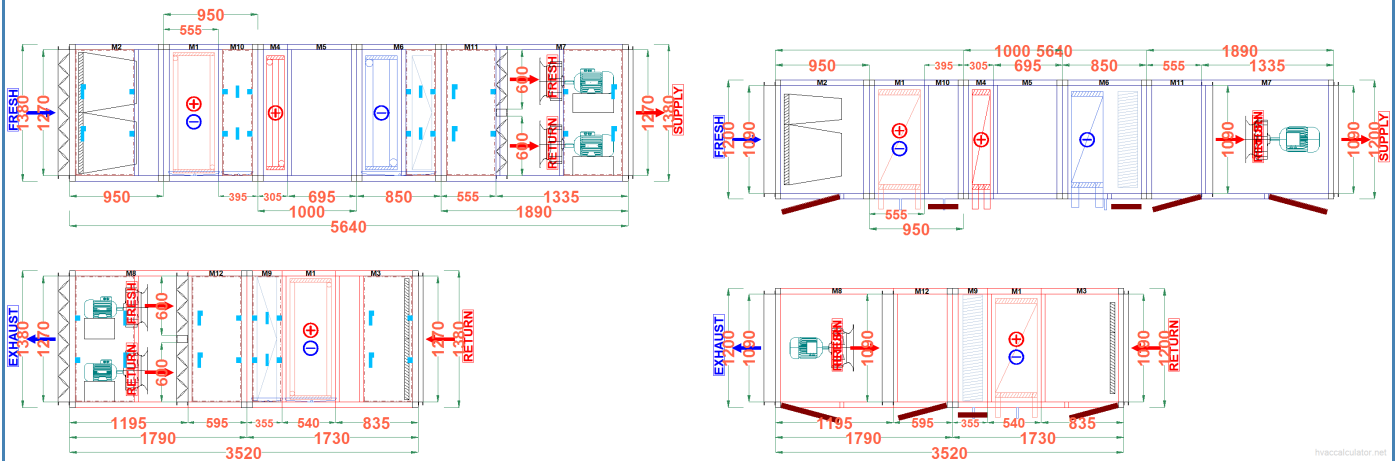


	TECHNICAL DATA			
	Date	07.06.2023	Rev. Date	16.04.2024
	Project ID	13438	Tracking Number	
Project Name	UCL GOSICH - S03			
HVACALC V. 2.2.3.82 08.04.2024	AHU Name	AHU 55 Supply and 54 Extract - (1 QTY)		
Page 1/11	AHU Model	ATC Millennium Line 4 H x 4 W [810 RAC CWC HWC DCM]		

RIGHT VIEW



TOP VIEW

GENERAL SPECIFICATIONS

Air Flow	Return Air Flow	Frame		Dimensions (mm)(Size+Pedestal+Dampers+Pipes)	
8,100 m³/h	8,100 m³/h	P 155/45 PS TB		W 1,350xH 1,380xL 3,700	
Air Velocity	Return Air Velocity	Insulation Material		Total Weight	Altitude
1.63 m/s	1.63 m/s	50 mm Rockwool 150 kg/m³		2,255 kg	6 m
Coil Air Velocity	Air Density	Outside Sheet Material		Base Height	Roof (Inside)
2.32 m/s	1.3134 kg/m³	0.8 mm Powder Coated Galvanized			N/A
Design Outdoor Temp.(W-S)	HRS Capacity (W-S)	Inside Sheet Material		Motor Power	
(-5°C/95%)-(35°C/34%/WB:22.5°C /DP:16.82°C)(LONDON CITY)	49.33 kW - 19.8 kW	0.8 mm Galvanized		5.5 kW / 4 kW	
Total Heating Capacity	Total Cooling Capacity	Total Sensible Capacity		Total Absorbed Power	
40.11 kW	101.4 kW	70 kW		7.52 kW	
Specific Fan Power(SFP Total)	ErP Compliance	ErP Code	fs-Pref	External Static Pressure	Return External Static Pressure
2,715 W/(m³/s)	2018	NRVU - BVU	0.93 / 0.93	578 Pa	462 Pa

SOUND POWER LEVEL (dB)

Frequency Hz	125	250	500	1000	2000	4000	8000	LwA-tot	
Airborne Sound Power Level	76.1	72.8	71.5	69.4	60.8	60.5	60.1	73.4	dBa
Air Outlet Induct Sound Power Level	82.2	83.2	89.2	86.2	82.4	78.4	76.5	90.7	dBa
Air Inlet Induct Sound Power Level	72.4	72.0	63.6	54.8	49.7	41.8	28.8	66.5	dBa
Return Air Outlet Induct Sound Power Level	82.0	83.0	88.0	86.0	81.1	76.2	75.2	90.0	dBa
Return Air Inlet Induct Sound Power Level	76.4	83.1	70.9	62.3	54.0	45.5	31.0	76.1	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 TB 50	D1 (M)	L1 (M)/L1 (R)	L1 (M)/L1 (R)	F9	T2	TB2	20	24	24	26	30	38	48

ACCESSORIES

Pressure Measurement Tap Set (x5), Manometer Pressure Gauge_Dwyer Magnehelic 500 (x3), Maintenance Switch (x4)



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Page	2/11	AHU Model	ATC Millennium Line 4 H x 4 W [810 RAC CWC HWC DCM]		



FRESH AIR CONNECTION

Connection Type	Control Type	Pressure Drop
Gear Damper	Motor (On/Off) (Belimo - 230V (A-SR)-NM230ASR)	2 Pa
Air Flow	Dimensions	Air Velocity
8,100 m³/h	W 1,090 mm x H 1,270 mm	1.63 m/s

SUPPLY CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		10 Pa
Air Flow	Dimensions	Air Velocity
8,100 m³/h	W 1,090 mm x H 1,270 mm	1.63 m/s

RETURN CONNECTION

Connection Type	Control Type	Pressure Drop
Flange		10 Pa
Air Flow	Dimensions	Air Velocity
8,100 m³/h	W 1,090 mm x H 1,270 mm	1.63 m/s

EXHAUST CONNECTION

Connection Type	Control Type	Pressure Drop
Gear Damper	Motor (On/Off) (Belimo - 230V (A-SR)-NM230ASR)	2 Pa
Air Flow	Dimensions	Air Velocity
8,100 m³/h	W 1,090 mm x H 1,270 mm	1.63 m/s

FILTER (M3)

Air Flow	Condensation Pan	Slide Type	Hygienic	Spare Filter	Section Weight
8,100 m³/h		Left Aligned	<input type="checkbox"/>	<input type="checkbox"/>	136 kg
Filter Type					
G4 - Coarse 55% Panel					
Initial / Final / Design P.Drop	Air Velocity	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*	Size/Quantity/EC*
46 Pa / 96 Pa / 71 Pa	2.37 m/s	592x592x48/1/NA	592x287x48/1/NA	592x490x48/1/NA	287x490x48/1/NA

* Filter Energy Performance; preferably energy classification

* G4 - Coarse 55% : Certified according to EN 16890:2016 / ISO 17065:2012

* Frame sealing applied.




ACCESSORIES (M3)

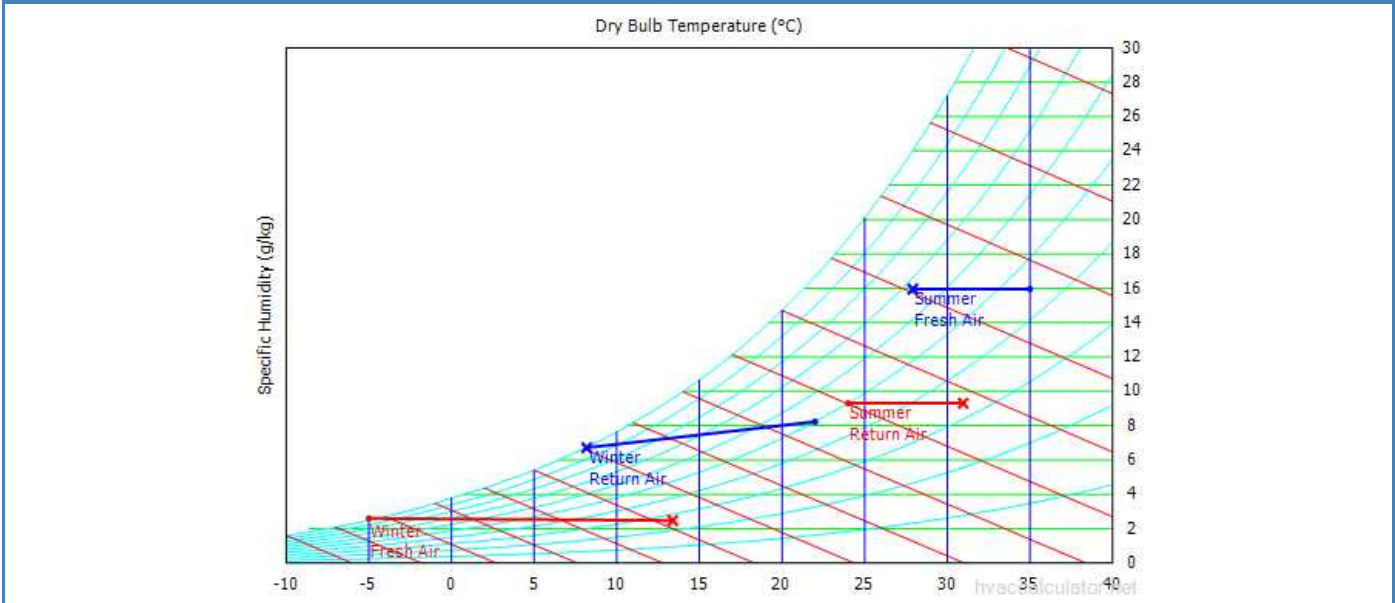
Pressure Measurement Tap Set, Manometer Pressure Gauge_Dwyer Magnehelic 500



COMPLETE VENTILATION SOLUTIONS LTD.										TECHNICAL DATA							
HVACCALC V. 2.2.3.82 08.04.2024		Date 07.06.2023		Project ID 13438		Rev. Date		16.04.2024		Tracking Number		Project Name UCL GOSICH - S03		AHU Name AHU 55 Supply and 54 Extract - (1 QTY)		AHU Model ATC Millennium Line 4 H x 4 W [810 RAC CWC HWC DCM]	
Page 3/11										RUN AROUND HEAT EXCHANGER (M1)							
Fresh Air 32 x 28 12 F S 36T 12R 900A 2.1P 12NC-Right				Exhaust 32 x 28 12 F S 36T 12R 900A 2.1P 12NC-Right				Fluid Kind ETHYLENE GLYCOL %30		Section Weight 446 kg							
Tube Material Copper		Tube Thickness 0.35 mm		Fin Material Aluminium		Fin Thickness 0.1 mm		Frame Material Galvanized Steel		Connection Material Steel		Connection Count 1					
Air Flow 8,100 m³/h		Exhaust 8,100 m³/h		Capacity 49.33 kW		Winter 19.8 kW		Summer									
Air Vel. 2.19 m/s		2.19 m/s		Pressure Drop		Fresh Air		Exhaust									
Water Regime Winter 17.5/3.0 °C		Summer 26.5/32.5 °C		Winter 127 Pa		Summer 127 Pa		Winter 132 Pa		Summer 132 Pa							
Wet Effic. 51.85 %		23.42 %		35.58 %		28.79 %											
Dry Effic. 68.12 %		64.47 %		51.18 %		63.28 %											
Fluid Flow 3,587 kg/h		2,860 kg/h		3,587 kg/h		2,860 kg/h											
Fluid Vol.Flow 3,481 dm³/h		2,784 dm³/h		3,466 dm³/h		2,791 dm³/h											
Fluid Velocity 0.74 m/s		0.59 m/s		0.73 m/s		0.59 m/s											
Fluid Press.Drop 43.43 kPa		26.45 kPa		44.13 kPa		26.39 kPa											
Coil Surface Area 296.1 m²				Coil Surface Area 296.1 m²													
Connection Sizes 48.3 / 48.3 mm (1-1/2" DN40 / 1-1/2" DN40)				48.3 / 48.3 mm (1-1/2" DN40 / 1-1/2" DN40)													
Droplet Elimin. / Press. Drop				Droplet Elimin. / Press. Drop													
Hygienic <input type="checkbox"/>		Blygold <input type="checkbox"/>		Hygienic <input type="checkbox"/>		Blygold <input type="checkbox"/>											
Winter				Summer													
Fresh Air		Exhaust		Fresh Air		Exhaust											
Inlet		Outlet		Inlet		Outlet											
DT -5 °C		13.39 °C		22 °C		8.18 °C											
WT -5 °C		5.58 °C		15.41 °C		5.58 °C											
RH 100 %		26.15 %		50 %		99.58 %											
Condensation Pan Stainless Steel 304 (20 mm (ød)) (Connection:Right) (Pressure:Negative)				Bypass Damper													
Water Pump				Electrical Connection		Electrical Current											



	TECHNICAL DATA			
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EMPTY SECTION (M9)				
Air Flow	Droplet Eliminator	Condensation Pan	Pressure Drop	Section Weight
8,100 m³/h	Polypropylene / 30 Pa / 23.38 kg / QTY:1	Stainless Steel 304 (20 mm (ød)) (Connection:Right) (Pressure:Negative)	30 Pa	89.46 kg

MIXING MODULE WITH TWO DAMPERS (M12)				
Connection Type	Condensation Pan	Pressure Drop	Section Weight	
Gear Damper		5 Pa	113.5 kg	
Fresh Air Control Type		Return Air Control Type		
Manual		Manual		
Fresh Air Volume		Return Air Volume		
8,100 m³/h		8,100 m³/h		
Fresh Air Dimensions		Return Air Dimensions		
W 1,090 mm x H 600 mm		W 1,090 mm x H 600 mm		
Fresh Air Velocity		Return Air Velocity		
3.44 m/s		3.44 m/s		



TECHNICAL DATA



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HVACALC V.	2.2.3.82 08.04.2024
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EXHAUST FAN (M8)

Air Flow	Motor Type	Fan Model	Quantity	Section Weight
8,100 m³/h	AC-Q4H112M2D40-KG	NPA400-	1	319 kg
Internal Static Pressure	Motor P./Pha./Volt./Freq.	Isolator	Isolator Count	
250 Pa	4 kW/3P/400V/50V-Hz	Rubber	4	
External Static Pressure	Motor Speed	Backup Fan	Backup Motor	Backup Inverter
462 Pa	3000 (2915)rpm	1	1	0
Total Static Pressure	Fan Bush Number			
712 Pa	2012			
Total Pressure	Motor Shaft Diameter			
862 Pa	Ø28			
Total / Static Efficiency				
69.76 / 57.61 %				
Motor / Inverter Efficiency	<input type="checkbox"/> Frequency Inverter Included			
90.00 / 97.00 %				
Shaft Power / Absorbed Power	Absorbed Power With VFD			
2.78 / 3.09 kW	3.18 kW			
Fan Speed	Running Frequency			
2305 rpm (Max. 2309 rpm)	39.54 Hz (Max. 39.61 Hz)			
	Air Density			
	1.3134 kg/m³			
Specific Fan Power (SFPe int)	Electrical Current			
463 W/(m³/s)	4.59 A (Max. 6.61 A)			

Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	86.0	82.0	83.0	88.0	86.0	82.0	77.0	76.0	90.0	dB(A)
Inlet Side	76.2	76.4	84.3	85.1	79.0	77.3	76.0	72.2	86.1	dB(A)

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

* The fan calculated for wet conditions



* Frequency inverter is required


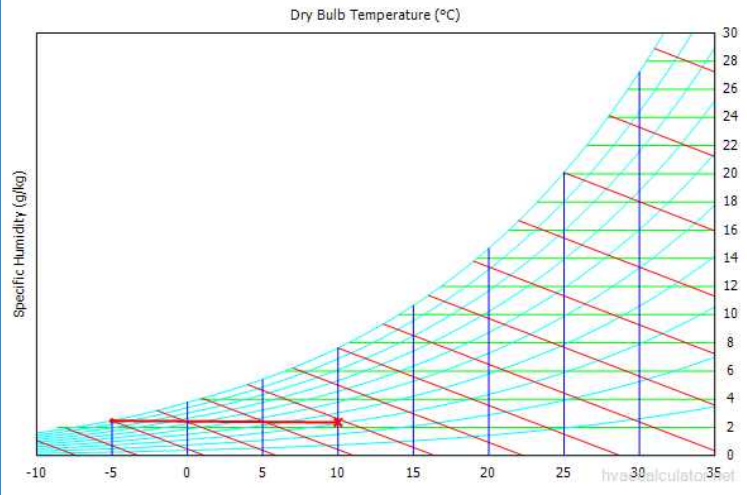
Energy Efficiency Class **B**

ACCESSORIES (M8)


Maintenance Switch (x2), Pressure Measurement Tap Set



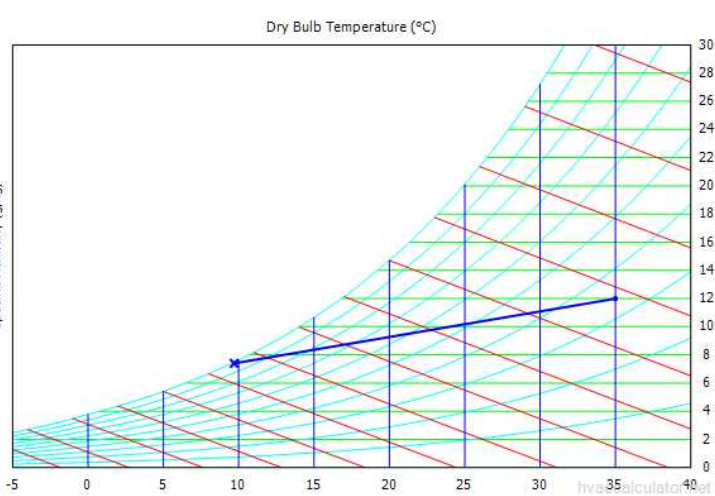
COMPLETE VENTILATION SOLUTIONS LTD.						TECHNICAL DATA					
HVACCALC V. 2.2.3.82 08.04.2024		Date		07.06.2023		Rev. Date		16.04.2024			
Page 6/11		Project ID		13438		Tracking Number					
		Project Name		UCL GOSICH - S03		AHU Name		AHU 55 Supply and 54 Extract - (1 QTY)			
		AHU Model		ATC Millennium Line 4 H x 4 W [810 RAC CWC HWC DCM]		AHU Model					
FILTER (M2)											
Air Flow		Condensation Pan		Slide Type		Hygienic		Spare Filter		Section Weight	
8,100 m³/h				Left Aligned		<input type="checkbox"/>		<input type="checkbox"/>		174.4 kg	
Filter Type		G4 - Coarse 55% Panel									
Initial / Final / Design P.Drop		Air Velocity		Size/Quantity/EC*		Size/Quantity/EC*		Size/Quantity/EC*		Size/Quantity/EC*	
46 Pa / 96 Pa / 71 Pa		2.37 m/s		592x592x48/1/NA		592x287x48/1/NA		592x490x48/1/NA		287x490x48/1/NA	
Filter Type		F7 - ePM2.5 - 65% Bag									
Initial / Final / Design P.Drop		Air Velocity		Size/Quantity/EC*		Size/Quantity/EC*		Size/Quantity/EC*		Size/Quantity/EC*	
67 Pa / 167 Pa / 117 Pa		2.37 m/s		592x592x535/1/B		592x287x535/1/B		592x490x535/1/B		287x490x535/1/B	
* Filter Energy Performance; preferably energy classification											
* G4 - Coarse 55% : Certified according to EN 16890:2016 / ISO 17065:2012											
* F7 - ePM2.5 - 65% : Certified according to EN 16890:2016 / ISO 17065:2012											
* Frame sealing applied.											
											
ACCESSORIES (M2)											
Pressure Measurement Tap Set (x2), Manometer Pressure Gauge_Dwyer Magnehelic 500 (x2)											
											
EMPTY SECTION (M10)											
Air Flow		Droplet Eliminator		Condensation Pan		Pressure Drop		Section Weight			
8,100 m³/h				Stainless Steel 304 (20 mm (ød)) (Connection:Right) (Pressure:Negative)		0 Pa		75.15 kg			

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Page 7/11	AHU Model	ATC Millennium Line 4 H x 4 W [810 RAC CWC HWC DCM]				
COIL (Heating) (M4)						
Air Flow	Capacity	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
8,100 m³/h	40.11 kW		2.32 m/s	2.5	1	86.09 kg
Coil Code	Tube Material	Fin Material	Function			
32 x 28 12 C S 34T 1R 900A 2.5P 17NC	Copper	Aluminium	Heating			
Droplet Elimin. / Press. Drop	Condensation Pan / Hmin U-Trap	Tube Thickness	Fin Thickness	Mixing Ratio		
		0.35 mm	0.12 mm	0 %		
Fluid Kind	Fluid In / Out	Size (W x H x L) mm	Conn. Material	Frame Material		
WATER	82/71 °C	900 x 1,080 x 27.5	Steel	Galvanized Steel		
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature					
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature					
-5.22 °C	3.65 °C					
Air Inlet Relative Humidity	Air Outlet Relative Humidity					
95 %	31.09 %					
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow					
1.13 - 15.99 kJ/kg	3,486 kg/h / 3,592 dm³/h					
Air Press.Drop	Fluid Press.Drop / Fluid Velocity					
17 Pa	1.60 kPa / 0.54 m/s					
Coil Surface Area	Tube Inner Volume					
19.76 m²	8.52 L					
Manifold / Conn.QTY	Conn.Direction					
1 / 1	Right					
Connection Sizes						
60.3 / 60.3 mm (2" DN50 / 2" DN50)						
Bypass Damper	Air Condensation	Hygienic	Blygold			
	1.2516 l/h	<input type="checkbox"/>	<input type="checkbox"/>			
EMPTY SECTION (M5)						
Air Flow	Droplet Eliminator	Condensation Pan	Pressure Drop	Section Weight		
8,100 m³/h			0 Pa	96.75 kg		



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COIL (Cooling) (Wet Surface) (M6)

Air Flow	Capacity / Sensible	Required Capacity	Face Velocity	Pitch	Quantity	Section Weight
8,100 m³/h	101.4/70 kW		2.4 m/s	2.1	1	259.7 kg
Coil Code	Tube Material		Fin Material		Function	
32 x 28 12 C S 34T 8R 870A 2.1P 27NC	Copper		Aluminium		Cooling	
Droplet Elimin. / Press. Drop	Condensation Pan / H/min U-Trap		Tube Thickness		Fin Thickness	
Polypropylene / 30 Pa / 23.38 kg / QTY:1	Stainless Steel 304 (20 mm (ød)) (Connection:Right) (Pressure:Negative) / 115.3 mm		0.35 mm		0.12 mm	
			Size (W x H x L) mm		Conn. Material	
			870 x 1,080 x 220		Steel	
					Frame Material	
					Galvanized Steel	
Fluid Kind	Fluid In / Out					
WATER	6/11.99 °C					
Air Inlet Drybulb Temperature	Air Outlet Drybulb Temperature					
35 °C	9.7 °C					
Air Inlet Wetbulb Temperature	Air Outlet Wetbulb Temperature					
22.5 °C	9.61 °C					
Air Inlet Relative Humidity	Air Outlet Relative Humidity					
34.04 %	98.92 %					
Air Inlet - Outlet Enthalpy	Fluid Flow / Vol. Flow					
65.96 - 28.4 kJ/kg	13,572 kg/h / 13,573 dm³/h					
Air Press.Drop(Wet/Dry)	Fluid Press.Drop / Fluid Velocity					
173 Pa / 128 Pa	31.25 kPa / 1.28 m/s					
Coil Surface Area	Tube Inner Volume					
180.2 m²	36.69 L					
Manifold / Conn.QTY	Conn.Direction					
1 / 1	Right					
Connection Sizes	Air Condensation		Hygienic	Blygold		
76.1 / 76.1 mm (2-1/2" DN65 / 2-1/2" DN65)	42.2804 l/h		<input type="checkbox"/>	<input type="checkbox"/>		
Bypass Damper						

MIXING MODULE WITH TWO DAMPERS (M11)

Connection Type	Condensation Pan	Pressure Drop	Section Weight
Gear Damper		5 Pa	101.4 kg
Fresh Air Control Type	Return Air Control Type		
Manual	Manual		
Fresh Air Volume	Return Air Volume		
8,100 m³/h	8,100 m³/h		
Fresh Air Dimensions	Return Air Dimensions		
W 1,090 mm x H 600 mm	W 1,090 mm x H 600 mm		
Fresh Air Velocity	Return Air Velocity		
3.44 m/s	3.44 m/s		



TECHNICAL DATA



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SUPPLY FAN (M7)

Air Flow	Motor Type	Fan Model	Quantity	Section Weight
8,100 m³/h	AC-Q4H132S2D40-KG	NPA400-	1	358 kg
Internal Static Pressure	Motor P./Pha./Volt./Freq.	Isolator	Isolator Count	
552 Pa	5.5 kW/3P/400V/50V-Hz	Rubber	4	
External Static Pressure	Motor Speed	Backup Fan	Backup Motor	Backup Inverter
578 Pa	3000 (2945)rpm	1	1	0
Total Static Pressure	Fan Bush Number			
1,130 Pa	2012			
Total Pressure	Motor Shaft Diameter			
1,280 Pa	Ø38			
Total / Static Efficiency				
75.21 / 66.39 %				
Motor / Inverter Efficiency	<input type="checkbox"/> Frequency Inverter Included			
90.90 / 97.00 %				
Shaft Power / Absorbed Power	Absorbed Power With VFD			
3.83 / 4.21 kW	4.34 kW			
Fan Speed	Running Frequency			
2555 rpm (Max. 2692 rpm)	43.38 Hz (Max. 45.70 Hz)			
	Air Density			
	1.3134 kg/m³			
Specific Fan Power (SFPe int)	Electrical Current			
292.5 W/(m³/s)	6.26 A (Max. 9.00 A)			

Sound Power Level (dB)

Hz	63	125	250	500	1000	2000	4000	8000	LwA-tot	
Outlet Side	87.2	82.2	83.2	89.2	86.2	83.2	79.2	77.2	91.2	dB(A)
Inlet Side	77.8	77.7	84.6	87.5	80.9	78.9	77.5	74.7	88.0	dB(A)

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

* The fan calculated for wet conditions

* Frequency inverter is required


Energy Efficiency Class



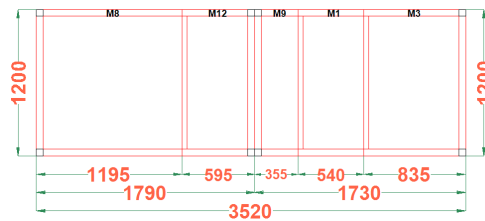
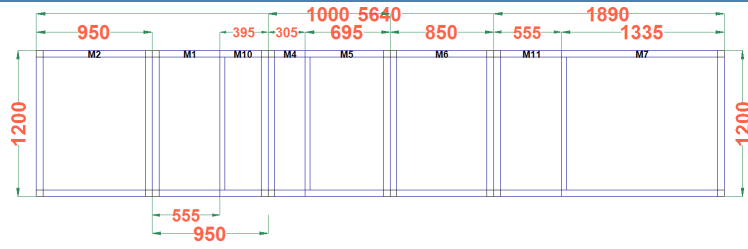
ACCESSORIES (M7)

Maintenance Switch (x2), Pressure Measurement Tap Set



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		AHU Model	ATC Millennium Line 4 H x 4 W [810 RAC CWC HWC DCM]		


LOADING SIZES



LOADING SIZES

Section	Module	Type	Count	Width	Height	Length	Weight	Total Weight
S1	M12	Double Connection Mixture	1	1,260 mm	1,380 mm	595 mm	113.5 kg	113.5 kg
S1	M8	Fan	1	1,260 mm	1,380 mm	1,310 mm	319 kg	319 kg
	2 pcs.					1,905 mm	432 kg	432 kg
S2	M3	Filter	1	1,260 mm	1,380 mm	885 mm	136 kg	136 kg
S2	M1	Run Around Coil Heat Exchanger	1	1,350 mm	1,380 mm	555 mm	446 kg	446 kg
S2	M9	Empty	1	1,260 mm	1,380 mm	355 mm	89.46 kg	89.46 kg
	3 pcs.					1,795 mm	671 kg	671 kg
S3	M2	Filter	1	1,260 mm	1,380 mm	1,065 mm	174.4 kg	174.4 kg
	1 pcs.					1,065 mm	174.4 kg	174.4 kg
S4	M10	Empty	1	1,260 mm	1,380 mm	395 mm	75.15 kg	75.15 kg
	1 pcs.					395 mm	75.15 kg	75.15 kg
S5	M4	Heating Coil	1	1,350 mm	1,380 mm	305 mm	86.09 kg	86.09 kg
S5	M5	Empty	1	1,200 mm	1,380 mm	695 mm	96.75 kg	96.75 kg
	2 pcs.					1,000 mm	182.8 kg	182.8 kg
S6	M6	Cooling Coil	1	1,350 mm	1,380 mm	850 mm	259.7 kg	259.7 kg
	1 pcs.					850 mm	259.7 kg	259.7 kg
S7	M11	Double Connection Mixture	1	1,260 mm	1,380 mm	555 mm	101.4 kg	101.4 kg
S7	M7	Fan	1	1,260 mm	1,380 mm	1,385 mm	358 kg	358 kg
	2 pcs.					1,940 mm	459 kg	459 kg
7 pcs.	12 pcs.						2,255 kg	2,255 kg



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Ecodesign Requirements Table					
		Value		2016	2018
	Product	ATC M Test			
	Erp	2018			
A	Manufacturer	CVS			
B	Model Identifier	ATC Millennium Line 4 H x 4 W [810 RAC CWC HWC DCM]			
C	ErP Code	NRVU - BVU			
D	Type Of Drive	Variable Speed Drive (VSD)	Variable Speed Drive (VSD)	Required	Required
E	Type Of HRS	Run Around			
	HRS Damper	---		Required	Required
F	Thermal Efficiency of HRS	68.12 %		>= 63 %	>= 68 %
G	Nominal Flow Rate	2.25 m³/s	2.25 m³/s		
H	Effective Electrical Power Input	4.34 kW	3.18 kW		
I	SFPint	292.5 W/(m³/s)	463 W/(m³/s)	<= 1394	<= 1154
J	Face Velocity	1.63 m/s	1.63 m/s		
K	Nominal External Drop Δps, Ext	578 Pa	462 Pa		
L	Internal Pressure Drop Δps, Int	552 Pa	250 Pa		
N	Static Fan Efficiency EC327/2011	66.39 %	57.61 %		
O	Declared Maximum Internal Leakage Rate	---			
P	Energy Performance Of Filters	NA	NA		
Q	Description Of Visual Filter Warning	Manometer Pressure Gauge	Manometer Pressure Gauge		Required
R	Casing Sound Power Level (Lwa)	73.4 dBA			
S	Internet Address Of Instructions	www.completeventsolutions.co.uk			