Heat recovery unit schedule



Heat recovery unit schedule							
Project	Natwest - Gordon Street, Glasgow						
Project description	M&E Upgrades						
Project number	SB0532						
Document reference	SB0532-SCH-M-006						
Prepared by	KW						
Date	12/01/2023						
Revision	P2						

Revision History					
Revision	Revision Notes	DCC	Date	Prepared	Checked
PI	Preliminary Issue		19/12/2023	KW	MG
P2	Revised Preliminary Issue		12/01/2023	KW	MG

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HRU Reference	AHU L									
I II O I Nei ei ei i ce	ALIO I									
System	Basement Level Supply and Extract									
HRU Location	Roof		_							
Unit Description	Floor mounted unit with supply and extract. Internal Thermal Wheel									
	extract. Internal Thermal VVneel									
Unit Performance	0.55 m³/s @ 250 Pa									
Manufacturer and reference	Flakt - ref Recovery Rotary Vertical									
	Compact									
Unit Dimensions (mm)	3370 long × 967 wide × 1254 high									
Unit Weight	585 kg									
F/A Intake filter	Туре	Bag								
	Efficiency	F7								
Thermal Wheel	External Air on (winter) Db	-10°C								
	Air Off (winter) Db	16.1°C								
	Efficiency	82%								
	External Air On(summer) Db	28°C								
	Air Off (summer) Db	24.7°C								
	Efficiency	83%								
	· ·									
Supply Fan	Туре	High efficiency EC fan								
	Volume	0.55 m³/s								
	External static	250 Pa								
	SFP	1.47 w/ls	Total f	or both	supply	and ex	tract running	together		
	Power input	0.74kW × 2								
	Full Load Current	5.8 A								
	Voltage	230V/1Ph/50Hz								
Extract filter	Туре	Bag								
	Efficiency	M5								
	· ·									
Extract fan	Туре	High efficiency EC fan								
	Volume	0.55 m³/s								
	External static	250 Pa								
	SFP	1.47 w/ls	Total f	or both	supply	and ex	tract running	together		
	Power input	0.74kW × 2			,					
	Full Load Current	5.8 A								
	Voltage	230V/1Ph/50Hz								
Unit acoustic data		Hz	63	125	250	500	1000	2000	4000	800
	Inlet	dB	0		44.2	39.6	34.3	28.9	22	16
	Outlet	dB	0		48.7	45	40.6	37	31.9	
	Environment	dB	0	34.7		44	38.4	30.7	23.2	9
		1								

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HRU Reference	AHU 2									
			-							
	C IFI IM : C I									
ystem	Ground Floor and Mezzanine Supply and Extract									
HRU Location	Roof		1							
Unit Description	Floor mounted unit with supply and									
,	extract. Internal Thermal Wheel									
Jnit Performance	0.980 m³/s @ 250 Pa									
Manufacturer and reference	Flakttgroup - CAIRplus									
	SX096.052AVVV									
Unit Dimensions (mm)	4920 long × 1080 wide × 1360 high									
			1							
Jnit Weight	1306 kg		1							
F/A Intake filter	Туре	Bag								
	Efficiency	F7								
Thermal Wheel	External Air on (winter) Db	-10°C								
	Air Off (winter) Db	20°C								
	Efficiency	75%								
	External Air On(summer) Db	28°C								
	Air Off (summer) Db	24°C								
	Efficiency	75%								
	•									
Supply Fan	Туре	High efficiency EC fan								
t.t. 1	Volume	0.980 m³/s								
	External static	250 Pa								
	SFP	1.77 w/ls	Total :	for bot	h supph	v and e	xtract runni	ng together		
	Power input	I.3kW	1.000		- supply	,				
	Full Load Current	6.6A								
	Voltage	230V/1Ph/50Hz	+							
	Voltage	2504/111//50112	-							
To almost Citien	Tree	Dog								
Extract filter	Type Efficiency	Bag M5								
	Efficiency	CITIO	-							
Todayart form	Type	High officion as FC for	+							
Extract fan	Type Volume	High efficiency EC fan 0.980 m³/s	-							
	External static	250 Pa	T				<u>. </u>			
	SFP	1.77 w/ls	I otal	or bot	n supply	and e	xtract runni	ng together		
	Power input	I.3kW								
	Full Load Current	6.6A	1							
	Voltage	230V/1Ph/50Hz	1							
Unit acoustic data		Hz	63	125	250	500	1000	2000	4000	80
	Inlet	dB	<u> </u>	-	-		-	-	-	
	Outlet	dB	-	-	-	-	-	-	-	-
	Environment	dB	1-	-	-	-	-	-	-	_





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Notes:	
1.)	All units to be installed entirely in accordance with manufacturers recommendations.
2.)	All units to be provided by a manufacturer unit controller with a volt free contact remote to start, stop fault and fire alarm interface.
3.)	The following schedules should be read in conjunction with the MEP specifications and drawings.
4.)	All heat recovery units to provided with condensate tray and drain