

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
P1	Preliminary Issue		19/12/2023	KW	MG
P2	Revised Preliminary Issue		12/01/2023	KW	MG

Note: Modifications Noted in Bold from Previous Revision

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HRU Reference	AHU I									
System	Basement Level Supply and Extract									
HRU Location	Roof									
Unit Description	Floor mounted unit with supply and extract. Internal Thermal Wheel									
Unit Performance	0.55 m³/s @ 250 Pa									
Manufacturer and reference	Flakt - ref Recovery Rotary Vertical Compact									
Unit Dimensions (mm)	3370 long x 967 wide x 1254 high									
Unit Weight	585 kg									
F/A Intake filter	Type	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	Type	High efficiency EC fan								
	Volume	0.55 m³/s								
	External static	250 Pa								
	SFP	1.47 w/s	Total for both supply and extract running together							
	Power input	0.74kW x 2								
	Full Load Current	5.8 A								
	Voltage	230V/1Ph/50Hz								
Extract filter	Type	Bag								
	Efficiency	M5								
Extract fan	Type	High efficiency EC fan								
	Volume	0.55 m³/s								
	External static	250 Pa								
	SFP	1.47 w/s	Total for both supply and extract running together							
	Power input	0.74kW x 2								
	Full Load Current	5.8 A								
	Voltage	230V/1Ph/50Hz								
Unit acoustic data		Hz	63	125	250	500	1000	2000	4000	8000
	Inlet	dB	0	35.7	44.2	39.6	34.3	28.9	22	16.2
	Outlet	dB	0	40.2	48.7	45	40.6	37	31.9	27
	Environment	dB	0	34.7	46.1	44	38.4	30.7	23.2	9.5

Note: Modifications Noted in Bold from Previous Revision

Notes

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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

Note: Modifications Noted in Bold from Previous Revision