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APPENDIX A -1

AIR SOURCE HEAT PUMP SCHEDULE			
REF	MODEL	HEATING CAPACITY kW	POWER
ASHP-01	PUZ-WM112VAA(-BS)	11.2	SP/N NRC 10.9 A Max 28 A MCP 32 A
ASHP-02	PUZ-WM112VAA(-BS)	11.2	SP/N NRC 10.9 A Max 28 A MCP 32 A

Note:

1. Heat Pumps shall not be ordered until underfloor heating requirements are confirmed.
2. To be read in conjunction with specification for ancillaries.
3. Heat Pumps shall be supplied, installed and commissioned by Hadrian Air Conditioning Co Ltd, Crowther Road, Crowther, Washington, NE38 0AQ.

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DOMESTIC HOT WATER HEATERS and WATER BOILER				
REF	CAPACITY	MANUFACTURER	MODEL	Max POWER
WH-01	5 L	Zip or Equal	Wall Mounted	SP&N 3 kW
WH-02	30 L	Zip or Equal	Wall Mounted	SP&N 3 kW
WH-03	15L	Zip or Equal	Under Sink	SP&N 3 kW
WB-01	10L	BURCO	SKU:444442463	SP&N 3 kW

Notes:

1. All complete with suitable brackets and fitted with un-vented kit as supplied by manufacturer.



LOUVRE SCHEDULE - APPENDIX A – 4

LOUVRE SCHEDULE						
REF	MODEL	DESIGNATION	SIZE	FLOW RATE	PRESSURE DROP	ANCILLARIES
EL-01	WGF-38	EF-02 & EF-04 Exhaust	300 mm H x 1150 mm L	225 l/s	10 Pa	c/w plenum box with 1 x 150 dia & 1 x 250 spigot and bird screen
EL-02	WGF-38	EF-03 Exhaust	400 mm H x 1150 mm L	510 l/s	21 Pa	c/w plenum box with 350 dia spigot and bird screen
EL-03	WGF-38	EF-01 Exhaust	300 mm H x 300 mm L	60 l/s	5 Pa	c/w plenum box with 150 dia spigot and bird screen

Notes:

Louvre Finish shall be Polyester Powder Coating in RAL 8012 (Red Brown) Colour provisional.

Contractor to confirm colour with Architect before ordering.

All louvres manufactured by Gilberts of Blackpool or equal and approved.



EXTRACT FAN SCHEDULE - APPENDIX A – 5

EXTRACT FAN SCHEDULE						
REF	TYPE	MODEL	FLOW RATE	PRESSURE DROP	ELECTRICAL POWER	ANCILLARIES AND CONTROL
EF-01 Kitchen	Mixed Flow - In Line	SEM150-1EC	60 l/s	120 Pa	SP&N 1.21 A @ max Speed	EC speed controller 149-POT-10 Wiring by Electrical Contractor. c/w Back draft damper. AV mounts. Flexible connections. Fan to exhaust through 2 no vent tiles.
EF-02 Hall	Mixed Flow - In Line	SEM355-1EC	510l/s	165 Pa	SP&N 2.0 A @ max Speed	EC speed controller 149-POT-10 Wiring by Electrical Contractor. c/w Back draft damper. AV mounts. Flexible connections. 2 x 350 dia, 600 long Silencers
EF-03 Social Space	Mixed Flow - In Line	SEM250-1EC	150 l/s	185 Pa	SP&N 2.0 A @ max Speed	EC speed controller 149-POT-10 Wiring by Electrical Contractor. c/w Back draft damper. AV mounts. Flexible connections. 600 long Silencer
EF-04 WC's	Twin Cabinet Fan	SQT-125-ECL	75 l/s	105 Pa	SP&N 1.21 A @ max Speed	149-ACO14E C/W 2 no PIR's, AV mounts, Flexible connections auto change over. Wiring by Electrical Contractor.

Notes

1. Contractor to include all necessary mounting rail and drop rods to support from structure.
2. All fans manufactured by Elta Fans or equal and approved.



GRILLE AND AIR VALVE SCHEDULE - APPENDIX A – 6

GRILLE AND AIR VALVE SCHEDULE							
REF	LOCATION	NECK SIZE	TYPE	FLOW RATE	STYLE	PLENUM	SPIGOT DIA
EG-01	Kitchen	200 mm dia	GXF	60 l/s	Air Valve with Fire Damper	n/a	n/a
EG-02	Changing Acc WC	150 mm dia	GXF	15 l/s	Air Valve with Fire Damper	n/a	n/a
EG-03	WC-04	100 mm dia	GXF	6 l/s	Air Valve with Fire Damper	n/a	n/a
EG-04	WC-03	100 mm dia	GXF	6 l/s	Air Valve with Fire Damper	n/a	n/a
EG-05	WC-02	100 mm dia	GXF	6 l/s	Air Valve with Fire Damper	n/a	n/a
EG-06	WC-01	100 mm dia	GXF	6 l/s	Air Valve with Fire Damper	n/a	n/a
EG-07	WC-05	100 mm dia	GXF	6 l/s	Air Valve with Fire Damper	n/a	n/a
EG-08	Cleaners	150 mm dia	GXF	15 l/s	Air Valve with Fire Damper	n/a	n/a
EG-09	Shower	150 mm dia	GXF	15 l/s	Air Valve with Fire Damper	n/a	n/a
EG-10	Social Space	300 mm x 300 mm	GECA	150 l/s	Egg Crate	Yes	250 mm
EG-11	Hall	400 mm x 400 mm	GECA	255 l/s	Egg Crate	Yes	350 mm
EG-12	Hall	400 mm x 400 mm	GECA	255 l/s	Egg Crate	Yes	350 mm

Notes:

All grilles and diffusers to have PPC white RAL 9010 20% gloss finish as manufactured by Gilberts of Blackpool or equal and approved.

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LOW TEMPERATURE FAN CONVECTORS

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LOW TEMPERATURE FAN CONVECTOR				
REF	MODEL	HEAT OUTPUT @ 50°C FLOW, 40°C RETURN WITH ENHANCED COIL	POWER EC MOTOR	CONTROL
FC-01	Belgravia Classic 115 – surface mounted Style A with enhanced coil.	7 kW (Nom) @ medium speed	SP&N 58W @ Medium Speed	Incorporating: Grilles RT1, ALTC and TLX1

Notes:

1. Units to be surface mounted on wall at high level with suitable supports.
2. Unit to be manufactured by S&P Coil Products Ltd or equal.

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LTHW PUMP SCHEDULE

***FLOW RATE AND PRESSURE TO BE CONFIRMED WITH UNDER FLOOR HEATING
AND HEAT PUMP MANUFACTURERS REQUIREMENTS BEFORE ORDERING.***

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LTHW PUMP SCHEDULE					
REF	TYPE	FLOW RATE	PRESSURE DROP	MODEL	POWER AND CONTROL
P-01A and B	Duplex, duty and standby	3.9 M ³ /Hr (NOM)	76 kpa (NOM)	Stratos –D 32/120	SP&N 500 w (NOM). c/w IF module.

Notes:

1. Speed control for pump is for commissioning purposes only
2. Pump as Manufactured by WILO PUMPS or equal and approved.