



**APPENDIX A -1**

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

**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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**APPENDIX A - 3**

<b>DOMESTIC HOT WATER HEATERS and WATER BOILER</b>				
<b>REF</b>	<b>CAPACITY</b>	<b>MANUFACTURER</b>	<b>MODEL</b>	<b>Max POWER</b>
<b>WH-01</b>	5 L	Zip or Equal	Wall Mounted	SP&N 3 kW
<b>WH-02</b>	30 L	Zip or Equal	Wall Mounted	SP&N 3 kW
<b>WH-03</b>	15L	Zip or Equal	Under Sink	SP&N 3 kW
<b>WB-01</b>	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.**



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**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.**



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**EXTRACT FAN SCHEDULE - APPENDIX A – 5**

<b>EXTRACT FAN SCHEDULE</b>						
<b>REF</b>	<b>TYPE</b>	<b>MODEL</b>	<b>FLOW RATE</b>	<b>PRESSURE DROP</b>	<b>ELECTRICAL POWER</b>	<b>ANCILLARIES AND CONTROL</b>
<b>EF-01 Kitchen</b>	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.
<b>EF-02 Hall</b>	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
<b>EF-03 Social Space</b>	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
<b>EF-04 WC's</b>	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**

### **APPENDIX A – 7**

<b>LOW TEMPERATURE FAN CONVECTOR</b>				
<b>REF</b>	<b>MODEL</b>	<b>HEAT OUTPUT @ 50°C FLOW, 40°C RETURN WITH ENHANCED COIL</b>	<b>POWER EC MOTOR</b>	<b>CONTROL</b>
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.***

### **APPENDIX A – 8**

<b>LTHW PUMP SCHEDULE</b>					
<b>REF</b>	<b>TYPE</b>	<b>FLOW RATE</b>	<b>PRESSURE DROP</b>	<b>MODEL</b>	<b>POWER AND CONTROL</b>
<b>P-01A and B</b>	Duplex, duty and standby	3.9 M <sup>3</sup> /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.**