

APPENDIX ONE

MECHANICAL SCHEDULES

Index of Mechanical Schedules

Schedule Ref	21060-DGE-XX-XX-SH-M-3100
Suitability	D2
Revision	P03
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Schedule Number	Schedule Title
21060-DGE-XX-XX-SH-M3101	Water Heater Schedule
21060-DGE-XX-XX-SH-M3102	Air Terminal Schedule
21060-DGE-XX-XX-SH-M3103	Ventilation Unit Schedule
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Water Heater Schedule

schedule ref : 21060-DG-XX-ZZ-SH-M-3101

Point of Use

Ref	Quantity	Location	Manufacturer	Model	Mounting	Rating	Storage Capacity	Dimensions (mm)	Mass (wet)	Electrical
WH-01	1	Store – Serving Café Area	Heatrae Sadia	Multipoint Eco 50V	Wall mounted	3 kW	50 Litres	1007H x 371W x 357D	71 kg	230/1/50
WH-02	1	WC Area	Heatrae Sadia	Multipoint Eco 50V	Wall mounted	3 kW	50 Litres	1007H x 371W x 357D	71 kg	230/1/50

Notes:

1. Multipoint units to be supplied c/w combined PRV with built in strainer, expansion vessel and expansion relief valve, and all other necessary ancillary items.
2. Water heaters to be as supplied/manufactured by Heatrae Sadia or equal and approved;

Contact:

Heatrae Sadia

Hurricane Way
Norwich
Norfolk
NR6 6EA

Telephone: 01603 420220

Email: sales@heatraesadia.com



Air Terminal Schedule

Schedule Ref: 21060-DGE-XX-XX-SH-M-3102

Extract Diffusers

Ref	Location	No Off	Air Vol (l/s)	Size (mm)	Type	ΔP (Pa)
EG-01	Changing Places	1	56	200	Air Valve	12
EG-02	WC	1	11	100	Air Valve	5
EG-03	Baby Changing W/C	1	13	100	Air Valve	15
EG-04	WC	1	10	100	Air Valve	4
EG-05	Ambulant WC	1	10	100	Air Valve	4
EG-06	WC	1	10	100	Air Valve	4
EG-07	Baby Changing W/C	1	13	100	Air Valve	15
EG-08	Disabled WC	1	16	125	Air Valve	10

Supply Diffusers

Ref	Location	No Off	Air Vol (l/s)	Size (mm)	Type	ΔP (Pa)
SG-01	Changing Places	1	56	200	Air Valve (Supply)	12

External Louvres

Ref	Location	No Off	Air Vol (l/s)	Size (mm)	Type	ΔP (Pa)
EL-001	WC	1	56	300 x 200	ALA-SO	10
EL-002	WC	1	56	300 x 200	ALA-SO	18

Notes:

1. Grille Finish and colour to be verified and signed off by architect. Non-standard colours to be allowed for tendering purposes.
2. Volume stated above are what is expected to be achieved under boost condition – subject to final commissioning.
3. All louvres, supply & extract grilles shall be manufactured by Schako Ltd, or equal and approved.

Schako

Index House
St Georges Lane
Ascot
Berkshire
SL5 7EU



Delta Green
environmental design

Tel.: 0 13 44 63 63 89

Fax: 0 13 44 87 46 58

e-mail: richardtyson@schako.uk.com

Ventilation Unit Schedule

Schedule Ref: 21060-DGE-XX-XX-SH-M-3103

FAN UNITS

Ref	Description	Duty (m3/s)	External Resistance (Pa)	Type	Model	SFP (W/l/s)	Input Power (kW)	F.L.C (Amps)	S.C (Amps)	Electrical Details
HRU-01	WC Area HRU	0.056	100	Ceiling Mounted Heat Recovery Unit	OPUS X-BOX	1.6	0.12	0.7	0.7	230/1Ø/50
EF-01	WC Extract Fan	0.083	100	(Externally) Roof Mounted Extract Fan	AVT1-R	0.4	0.1	0.75	0.75	230/1Ø/50
EF-02	Kitchen Extract Fan	0.4	125	(Externally) Roof Mounted Extract Fan	SQF-41	0.4	0.16	1.4	4.6	415/1Ø/50

Ref	Quantity	Mass (kg)	Sound Power Levels dB re 1pW (Induct)							
			63	125	250	500	1k	2k	4k	8k
HRU-01	1	25	73	68	72	76	67	67	59	46
EF-01	1	64	75	70	68	71	71	66	60	56
EF-02	1	52	87	90	79	70	70	70	70	69

Notes:

1. The fans are to be supplied with all necessary ancillaries for fixing to and duct connections.
2. MVHRs & Extract Fans are to be provided with over-run timers initially set to 20 minutes, and be controlled by local PIR detectors – occupancy will facilitate boost setting (to obtain volumes as the design duties – trickle will be at circa 20% of the design duties)

Nuaire Limited

Western Industrial Estate
Caerphilly
CF83 1NA
Tel: 029 2085 8200

Cooling Units Schedule

schedule ref : 21060-DGE-XX-XX-SH-M-3104

Internal Units

Indoor Unit Ref	Location	Qty	Sensible Cooling Required (kW)	Total Heating Required (kW)	ACU Sensible Cooling Capacity (kW)	ACU Heating Capacity (kW)	Indoor Unit Model No	Type	Dimensions / Panel (LxWxD) (mm)	Ancillaries	Mass (kg)	Sound Pressure Level dB(A)	Electrical Requirements
FCU-01	Cafe	1	3.7	1.5	4.6	8.0	FXFQ63B	CC	840(950)x840(950)x204(254)	CP & RC	26.5	33	230/1/50
FCU-02	Cafe	1	3.7	1.5	4.6	8.0	FXFQ63B	CC	840(950)x840(950)x204(254)	CP & RC	26.5	33	230/1/50
FCU-03	Kitchen	1	1.7	0.5	1.9	3.2	FXAQ25A	WM	795x290x266	CP & RC	12	33	230/1/50

External Units

Outdoor Unit Ref	Serving	Quantity	Outdoor Unit Model No	Dimensions (HxLxD) (mm)	Mass (kg)	Sound Pressure Level dB(A)	Electrical Requirements	Maximum piping length (m)
CON-01	VRF System	1	RXYSQ5T8Y	1325x900x320	104	51	415/3/50	-

Solenoid Control Box – BS Box

BS Box Ref	Serving	Location	Quantity	Outdoor Unit Model No	BS Box Model No.	No. of Ports	Dimensions (HxLxD) (mm)	Mass (kg)	Electrical Requirements
BS-01	VRF System	Kitchen Ceiling Void	1	VRF System	BS1Q10A	12	207x388x326	12	230/1/50

Notes:

Martello Café & Public Toilets, Seaford
Appendix 1 – Mechanical Schedules

1. All equipment will be manufactured by Daikin Air Conditioning UK (or equal and approved):

Daikin Air Conditioning UK

The Heights

Brooklands

Weybridge

KT13 0NY

Telephone: 01932 879 000

2. All unit duties shown are at high speed, based on summer conditions; indoor 23°Cdb, 16°Cwb, outdoor 35°C, and winter conditions: indoor 20°Cdb, outdoor 4°Cdb, 3°Cwb.
3. All units to selected on their medium speed – (M) to minimise noise.
4. Indoor and outdoor units require separate power supplies. Refer to manufacturer's installation manuals for detail.
5. For details on how units are controlled, and alarms required. Refer to specification.
6. All indoor units to be provided with integral condensate pumps.

Type

WM Wall mounted at high level

CC Cassette unit – 4 way blow

CCU Ceiling concealed unit - ducted

Ancillaries

CP Integral condensate pump

RC “Wired remote controller” with temperature and fan speed adjustment for room set point.

Electric Radiant Panel Schedule

Schedule Ref: 21060-DGE-XX-XX-SH-M3105

Unit Ref	Location	Qty.	Emitter Type	Manufacturers Ref	Zone Temp (°C)	Size (mm) HxL	Emitter Output (kW)	Electrical Details
RP-01	Changing Places	1	Energocassette	ENC300	19	600 X 600	0.300	230/1/50
RP-02	Changing Places	1	Energocassette	ENC300	19	600 X 600	0.300	230/1/50

Notes:

1. Panel colour and finish to be verified and confirm by architect prior to ordering.
2. Panels to be provided complete with smart control for temperature control and time scheduling (viaa APP). Zonal thermostats to be provided to each space.
3. All Radiators shall be as manufactured by Frenger or equal and approved.

Frenger Systems Ltd
Riverside Road
Pride Park, Derby
DE24 8HY

Electronic Water Descaler Unit Schedule

schedule ref

21060-DGE-XX-XX-SH-M3106

Ref	Location	Type	Model	Size	Power Supply
WC-01	Café - Service Cupboard	Hydrotec	Hydromag DN25	184Ø x 206	230V / 1Ph / 50Hz
WC-02	WC - Service Cupboard	Hydrotec	Hydromag DN32	238Ø x 224	230V / 1Ph / 50Hz

Notes:

1. Water treatment units are to be provided by Hydrotec Ltd or equal and approved;

Hydrotec (UK) Ltd.

Hydrotec House
5 Manor Courtyard
Hughenden Avenue
High Wycombe
HP13 5RE

e-mail: sales@hydrotec.co.uk
Tel: 01494 796040
Fax: 01494 796049