

Mechanical Services Equipment Schedules

Project Name Riverdale Maisonettes
Project No. 312169
Status Stage 3
Revision 01



CONTENTS

- * Domestic Hot Water Heater Schedule
- * Plate Heat Exchanger Schedule
- * Radiator Schedule
- * Heat Pump Unit Schedule

ISSUE DATE	REVISION
07-24	01
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07-24	01
07-24	01

General Notes; (Applies to all schedules)

- 1 The manufacturer and model noted on these schedules has been used in the detailed design process. Refer to Mechanical Specification for requirements relating to alternative manufacturers.
- 2 Manufacturers model references used within the contents of these equipment schedules are for guidance only. The contractor is responsible for checking that the model references are correct at the time of pricing and the equipment being priced or supplied meets the performance and material requirements detailed in the specification, drawings and equipment schedules.

Domesitc Hot Water Cylinder Schedule

Ref. No.	Location	Water Heater Type	Storage Capacity (litres)	Insulation thickness	System Working Pressure (Bar)	Primary Heat Source Temperature		Heater Output (kW)	HWS Output rate @ 60C (l/hr)	Fuel Supply	Electrical Supply		Manufacturer & Type	Expansion Vessel Type	Description & Accessories
				(mm)		Flow (oC)	Retn (oC)				V/Ph/Hz	kW			
HWC-01	Upper Floor Cupboard in each dwelling	Indirect	200	TBC	10.0	TBC	TBC	N.A.	TBC	N.A.	230/1/50	TBC	Daikin	Integral with HWS storage Vessel	LTHW indirect water storage heater complete with internal heat exchanger, temperature/pressure relief valve and expansion vessel

Notes

- 1 Refer to notes 1 & 2 on Equipment Schedule Front Cover and Contents Sheet
- 2 Water heaters shall be selected to achieve a minimum water storage temperature of 60 deg.C
- 3 Where an expansion vessel is required, this shall be provided for each storage vessel and shall be capable of handling the expansion from both the vessel being served and the hot water distribution system.
- 4 Hot water storage vessels shall be supplied pre-insulated by the manufacturer or the insulation and protective casing applied on site in accordance with the Mechanical Specification

Revisions

Plate Heat Exchanger Schedule

Ref. No.	Location	Primary Side						Secondary Side						Output (kW)	Manufacturer & Type	Description & Accessories
		Medium	Flow Rate (kg/s)	Max. P.D. (kPa)	Inlet Temp (oC)	Outlet Temp (oC)	Working Press. (Bar)	Medium	Flow Rate (kg/s)	Max. P.D. (kPa)	Inlet Temp (oC)	Outlet Temp (oC)	Working Press. (Bar)			
HIU-01	Kitchen	R32	TBC	TBC	TBC	TBC	TBC	LTHW	TBC	TBC	TBC	TBC	TBC	6	Daikin	Based on Daikin EHBH08E6V

Notes

- 1 Refer to notes 1 & 2 on Equipment Schedule Front Cover and Contents Sheet
- 2 Manufacturer to be based on Daikin

Revisions

Radiator Schedule

Ref. No.	Floor Level	Room Ref.	Qty	Heating Output (W)	LTHW F/R Temp		Flow Rate (kg/s)	Dimensions			Manufacturer & Type	Finish	Pipe Connections	Room Temperature Control Requirements	Description
					F (oC)	R (oC)		Length (mm)	Depth (mm)	Height (mm)					
RAD-01	Lower Floor	Entrance Lobby	TBC	200	TBC	TBC	TBC	TBC	TBC	TBC	Stelrad	RAL colour approved by the Architect	Bottom opposite ends	TRV with integral sensing head	Wall mounted steel panel radiator
RAD-02	Lower Floor	Living Room	TBC	1000	TBC	TBC	TBC	TBC	TBC	TBC	Stelrad	RAL colour approved by the Architect	Bottom opposite ends	TRV with integral sensing head	Wall mounted steel panel radiator
RAD-03	Lower Floor	Kitchen	TBC	650	TBC	TBC	TBC	TBC	TBC	TBC	Stelrad	RAL colour approved by the Architect	Bottom opposite ends	TRV with integral sensing head	Wall mounted steel panel radiator
RAD-04	Upper Floor	Bedroom 1	TBC	900	TBC	TBC	TBC	TBC	TBC	TBC	Stelrad	RAL colour approved by the Architect	Bottom opposite ends	TRV with integral sensing head	Wall mounted steel panel radiator
RAD-05	Upper Floor	Bedroom 2	TBC	650	TBC	TBC	TBC	TBC	TBC	TBC	Stelrad	RAL colour approved by the Architect	Bottom opposite ends	TRV with integral sensing head	Wall mounted steel panel radiator
RAD-06	Upper Floor	Bedroom 3	TBC	450	TBC	TBC	TBC	TBC	TBC	TBC	Stelrad	RAL colour approved by the Architect	Bottom opposite ends	TRV with integral sensing head	Wall mounted steel panel radiator
RAD-07	Upper Floor	Bathroom	TBC	250	TBC	TBC	TBC	TBC	TBC	TBC	Stelrad	RAL colour approved by the Architect	Bottom opposite ends	TRV with integral sensing head	Wall mounted steel panel radiator
RAD-08	Upper Floor	WC	TBC	200	TBC	TBC	TBC	TBC	TBC	TBC	Stelrad	RAL colour approved by the Architect	Bottom opposite ends	TRV with integral sensing head	Wall mounted steel panel radiator

Notes;

- 1 Refer to notes 1 & 2 on Equipment Schedule Front Cover and Contents Sheet
- 2 Manufacturer to be based on Stelrad

Revision;

Heat Pump Unit Schedule

HH Reference	ASHP 01	Location:	Roof																																																												
Manufacturer:	Daikin																																																														
Model	Based on Daikin ERGA06EVA																																																														
Type:	Air Source Heat Pump																																																														
No. of Compressors	1	Compressor type	Hermetically sealed swing compressor																																																												
Refrigerant Type	R32																																																														
Required Duty:	<table border="1"> <tr> <td>Heating Capacity</td> <td>6</td> <td>kW</td> </tr> <tr> <td>Cooling Capacity (If applicable)</td> <td>NA</td> <td>kW</td> </tr> <tr> <td>External Summer Design Temperature (Air cooled unit)</td> <td>NA</td> <td>deg.C</td> </tr> <tr> <td>External Winter Design Temperature (Air cooled unit)</td> <td>NA</td> <td>deg.C</td> </tr> <tr> <td>Refrigerant Flow Temperature</td> <td>TBC</td> <td>deg.C</td> </tr> <tr> <td>Refrigerant Return Temperature</td> <td>TBC</td> <td>deg.C</td> </tr> <tr> <td>Refrigerant Flow Rate</td> <td>TBC</td> <td>kg/s</td> </tr> <tr> <td>Maximum Heating Water pressure drop</td> <td>TBC</td> <td>kPa</td> </tr> <tr> <td>CHW Flow Temperature</td> <td>NA</td> <td>deg.C</td> </tr> <tr> <td>CHW Return Temperature</td> <td>NA</td> <td>deg.C</td> </tr> <tr> <td>CHW Flow Rate</td> <td>NA</td> <td>kg/s</td> </tr> <tr> <td>Maximum CHW pressure drop</td> <td>NA</td> <td>kPa</td> </tr> <tr> <td>Ground Loop Flow Rate (if applicable)</td> <td>NA</td> <td>kg/s</td> </tr> <tr> <td>Ground Loop Medium (if applicable)</td> <td>NA</td> <td></td> </tr> <tr> <td>Electrical Supply</td> <td>(230/1/50)</td> <td>(V/ph/Hz)</td> </tr> <tr> <td>Electrical Load</td> <td>1.69</td> <td>kW</td> </tr> <tr> <td>Running Current</td> <td>16</td> <td>Amps</td> </tr> <tr> <td>Starting Current</td> <td>TBC</td> <td>Amps</td> </tr> <tr> <td>Capacity Control Stages</td> <td>100/63/37/0%</td> <td></td> </tr> <tr> <td>Minimum COP at design heating load conditions</td> <td>3</td> <td></td> </tr> </table>			Heating Capacity	6	kW	Cooling Capacity (If applicable)	NA	kW	External Summer Design Temperature (Air cooled unit)	NA	deg.C	External Winter Design Temperature (Air cooled unit)	NA	deg.C	Refrigerant Flow Temperature	TBC	deg.C	Refrigerant Return Temperature	TBC	deg.C	Refrigerant Flow Rate	TBC	kg/s	Maximum Heating Water pressure drop	TBC	kPa	CHW Flow Temperature	NA	deg.C	CHW Return Temperature	NA	deg.C	CHW Flow Rate	NA	kg/s	Maximum CHW pressure drop	NA	kPa	Ground Loop Flow Rate (if applicable)	NA	kg/s	Ground Loop Medium (if applicable)	NA		Electrical Supply	(230/1/50)	(V/ph/Hz)	Electrical Load	1.69	kW	Running Current	16	Amps	Starting Current	TBC	Amps	Capacity Control Stages	100/63/37/0%		Minimum COP at design heating load conditions	3	
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Ancillary Items																																																															
Shipping Weight:	60 kg																																																														
Nominal Size:	Length	400	mm																																																												
	Width	900	mm																																																												
	Height	750	mm																																																												
Frequency (Hz)	63	125	250	500	1K	2K	4K	8K																																																							
Breakout Noise (SWL)																																																															
Sound level at 5m distance	TBC dBA																																																														
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