

Portico Library

Architect: Purcell
Issue Status: **S4 – Suitable for Stage Approval**

TABLE 1: AIR SOURCE HEAT PUMP SCHEDULE

REF	SYSTEM TYPE	REFRIGERANT TYPE	MANUFACTURER / MODEL	DIMENSIONS (mm)	OPERATING WEIGHT (KG)	FLOW/RETURN TEMPERATURE ((°C)	IMAGE	ADDITIONAL NOTES
ASHP.01	AIR SOURCE HEAT PUMP	R32	Aermec NRG-0704 (2 pipe reversible)	2003H X 1170W X 4370L	1752	Heating: 45/40 Cooling: 7/12		Located on roof plant deck area.
TECHNICAL DETAILS								
PERFORMANCE AT DESIGN CONDITIONS				COMPRESSOR				
Heating			Type			Plate		
Gross heating capacity (kW)		121.9	Number of refrigerant circuits			2		
Air temperature (°C)		-4	Refrigerant charge (kg)			8.3 + Pipework		
Available external pressure (kPa)		80	Refrigerant, CO2 equivalent (t)			11.2		
Application		Heating and cooling	Cooling					
Total power input (kW)		53.9	Gross cooling capacity (kW)			164.6		
SCOP		3.90	Air temperature (°C)			35		
CLEARANCE REQUIREMENTS			Available external pressure (kPa)			196		
Top (mm)			Application					
Left (mm)		800	Total power input (kW)			57.7		
Right (mm)		800	ESEER			4.22		
Front (mm)		800	ACOUSTIC DATA					
Back (mm)		800	Frequencies (dB)		Total (A)			
ELECTRICAL REQUIREMENTS			Sound pressure level (dB)		78.6			
Maximum current (A)		113.3						
Power Supply (V/Ph/Hz)		400/3/50						

Schedule of Heat Generation Equipment
Dwg #: 07590-XX-XX-SH-M-10000 Rev P01

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TABLE 2: BUFFER VESSEL SCHEDULE

REF	DESCRIPTION/TYPE	LOCATION	MANUFACTURER AND MODEL	SYSTEM CHARACTERISTICS	DIMENSIONS	WEIGHT (kg)	NOTES
BV.01	Buffer vessel	L02 Attic Plant Room	Flamco Flextherm PS 3000	Vessel size: 3000L Max Working pressure: 3 bar Max Working temperature: 95°C	Ø1250 x 2800	586 (dry)	

TABLE 3: PUMP SCHEDULE

REF	APPLICATION	DESCRIPTION/TYPE	LOCATION	MANUFACTURER & REF (NOTE 1)	FLOW RATE (l/s)	TOTAL PUMP PRESSURE (kPa)	FLUID & TEMP (°C)	MOTOR (kW)/PHASE	DIMENSIONS L X W X H (MM)	SPEED CONTROL / NOTES
PH.01	Primary Circuit	Twin head circulation pump	L02 Attic Plant Room	Grundfos – MAGNA3 40-100 F	2.2	80	45	0.323kW / 1-Phase	369 x 234 x 150	
PH.02	Secondary Circuit	Twin head circulation pump	L02 Attic Plant Room	Grundfos – MAGNA3 40-100 F	2	15	45	0.323kW / 1-Phase	369 x 234 x 150	

TABLE 4: CHILLER SCHEDULE

REF	DESCRIPTION / TYPE ⁽³⁾	LOCATION	PERFORMANCES	MAIN INDICATIVE SIZES	POWER SUPPLY PER UNIT [KW]	SOUND POWER LEVEL (DB)	NOTES / ACCESSORIES
CH.01	Marstair CKC	Roof plant deck	Flow/return temp: 7/12 °C Load: TBC at next stage	1000 L x 425 W x 1025 H (approx.)	TBC	TBC (approx. 50)	

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Notes

- 1. Contractor to ensure that the catalogue number is consistent with the description prior to order.
- 2. This schedule is to be read in conjunction with MFLLP specification.

Rev	Date	Status	Description	Engineer	Project Leader
P01	09/07/2025	S4	Suitable for Stage Approval	JA	IS

Schedule of Heat Generation Equipment
Dwg #: 07590-XX-XX-SH-M-10000 Rev P01