



MECHANICAL EQUIPMENT SCHEDULES

Project Name

UW3396-GED-T2-ZZ-SH-M-0001

ISSUE	P01	PREPARED BY	JO
STATUS	For Comment	CHECKED BY	HT
DATE	20/03/2026	APPROVED BY	



MECHANICAL SCHEDULE

Project Name

ISSUE

STATUS

DATE

PREPARED BY

CHECKED BY

HEAT PUMPS (ASHP)

P01

For Comment

20/03/2026

JO

HT

Reference	#	ASHP 1.1	ASHP 1.2			
Location		External Plant Space	External Plant Space			
Refrigerant		R290	R290			
Circuit No / compressor No	qty.	1 / 1	1 / 1			
Compressor speed control		variable speed (VSD)	variable speed (VSD)			
Capacity Control	%	25-100%	25-100%			
Source heat transfer fluid		Air	Air			
Load heat transfer fluid		Water	Water			
Heating capacity	kW	25.4	25.4			
COP		2.22	2.22			
EST / LST	°C (dB)	-4	-4			
ELT / LLT	°C	55/50	55/50			
Cooling capacity	kW					
EER						
EST / LST	°C (dB)					
ELT / LLT	°C					
Min operating outdoor air temp.	°C	-25	-25			
Max operating outdoor air temp.	°C	43	43			
Compressor power supply	V/Hz/Ph	400/50/3	400/50/3			
Max absorbed current	A	28	28			
Max inrush current	A					
Maximum power input	kW	11.5	11.5			
Dimensions L x W x H	mm	1388x500x1816	1388x500x1816			
Operational weight	kg	279	279			
Sound Pressure Level at 1m	dBA	55	55			
Manufacturer (equal or approved)		Clivet	Clivet			
Model		WiSAN-PMP 1S 12.1	WiSAN-PMP 1S 12.1			

Remarks



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BUFFER VESSELS

P01

For Comment

20/03/2026

JO

HT

Reference	#	BV01				
System		LTHW Heating				
Application		heating				
Shell material		carbon steel				
Maximum Operating Pressure	bar	3bar				
Cladding material		PVC				
RAL colour						
Condensation control		vapour barrier				
Insulation thickness	mm	80				
Insulation thermal conductivity	W/mK					
Standing heat loss @ design temp.	kWh/24hrs					
Capacity	Litres	400				
Design fluid temperature	°C	55				
Process connections	qty.	4				
Process connection min. size	mm	80				
Instrumentation connections		see drawing				
Dimensions L x W x H	mm	650x1650				
Manufacturer (equal or approved)		Flamco				
Model		Flextherm 500				

Remarks



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Project Name

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CIRCULATION PUMPS

P01

For Comment

20/03/2026

JO

HT

Reference	#	P1.1				
Circuit		LTHW Primary Side				
Pump type		in-line, glandless				
Double/single head		single-head				
Duty/assist/standby		duty				
Pumped fluid		water				
Min fluid design temperature	°C	-10				
Max fluid design temperature	°C	110				
Duty flow rate	L/sec	1.05				
Pressure loss	kPa	100				
Electrical supply	V/Hz/Ph	230/50/1				
Pump Motor		c/w Inverter drive				
Rated Power	kW	0.427				
Max Current	A	1.91				
Network communication with BMS						
Energy Efficiency Index (EEI)		0.19				
Motor Efficiency Rating						
Pipe connections		flanged				
Pressure rating	bar	PN10				
Connection size	DN	40				
Manufacturer (equal or approved)		Grundfos				
Model		Magna 3 40-120 F				

Remarks

Pressure loss indicative only at this stage