

Electrical Load Schedule

UW3396-GED-TL-ZZ-SH-E-0001

Project:	Learning Teaching Building
Engineer:	JO
Date:	20-Mar-2026
Issue:	P03
Issue Notes:	Issued for comment

Description	Equipment Ref #	Mains Power	Connected Load					Max Simultaneous Design Load ³				Phase Balance ⁴			Controls	NOTES
			Units	max P / unit	FLA /unit	Max Inrush ¹ /unit	Load Type ²	Units	Design P / unit	Power Factor	A /unit	L1	L2	L3		
			no	kW	A	A	DOL/VSD	no	kW	cos(φ)	A	A	A	A		
3Ph 400V																
Heat Pump (OAT -3°C, LLT +60°C)	ASHP1.1 - 1.6	400VTP	6	6.0	10		VSD	6	6.0	0.90	9.7	58	58	58		Clivet Edge Pro WISAN-PMP 1S 8.1
1Ph 230V																
Circulation Pump	P1	230V SP	1	0.4	1.91		VSD	1	0.4	0.90	0.7	0.7				Magna3 D 40-120 F
Circulation Pump	P2	230V SP	1	0.1	1.19		VSD	1	0.1	0.90	0.2		0.2			Magna3 D 32-80 N
												59	58	58		

	Total Connected Load			Maximum Design Demand		
Safety Factor	10%			10%		
	46	kVA		44	kVA	
	69	A		65	A	

- Notes:
- 1: Max Inrush is not given where it is below FLA (eg: for inverter driven equipment starting at lowest speed, and electronic equipment)
 - 2: DOL = Direct on Line; VSD = Variable Speed Drive
 - 3: Calculation of maximum demand is based on the maximum simultaneous combination of equipment running.
 - 4: Phase allocation is for information only. Maximum Demand per phase to be confirmed by an electrical engineer during detailed electrical design.