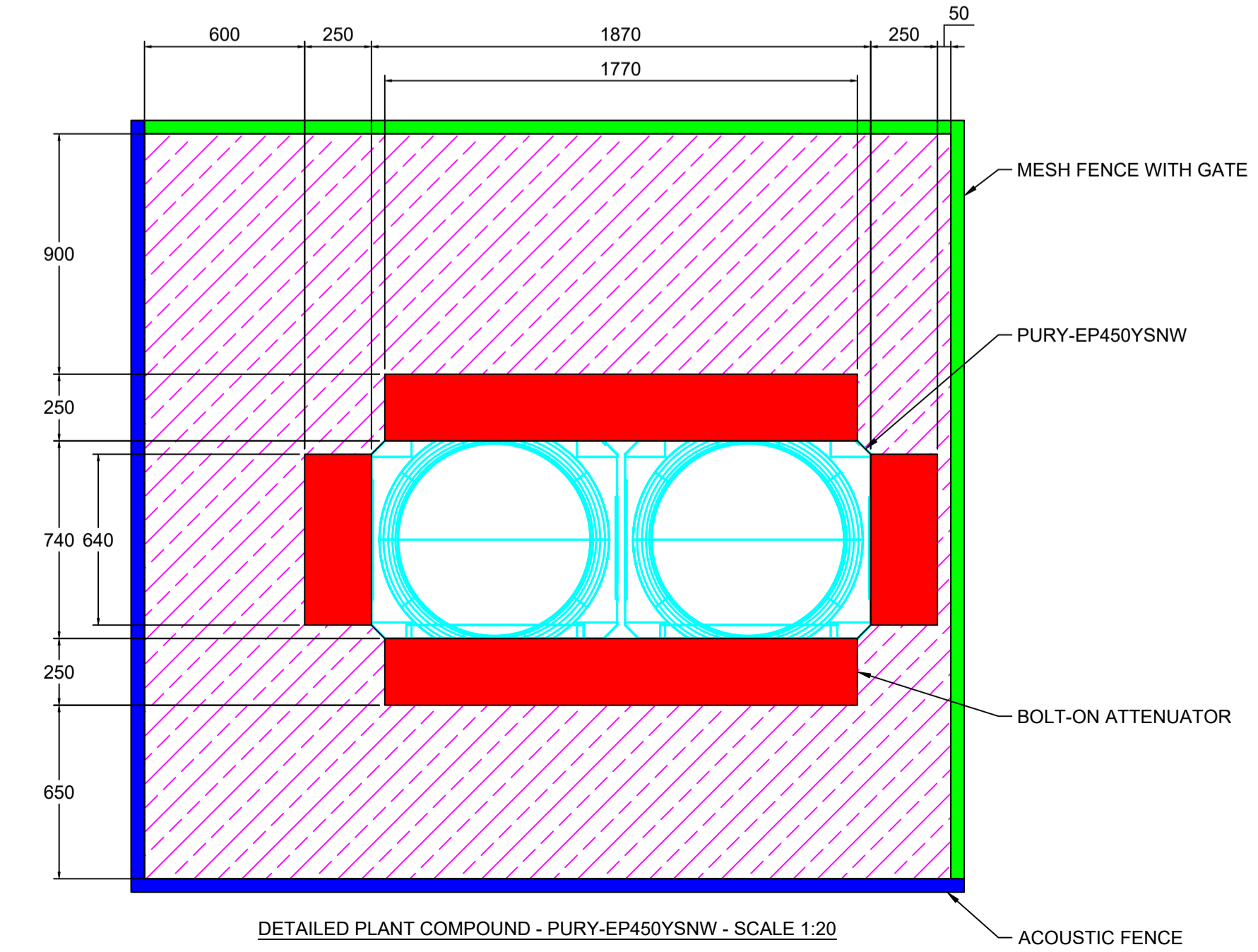
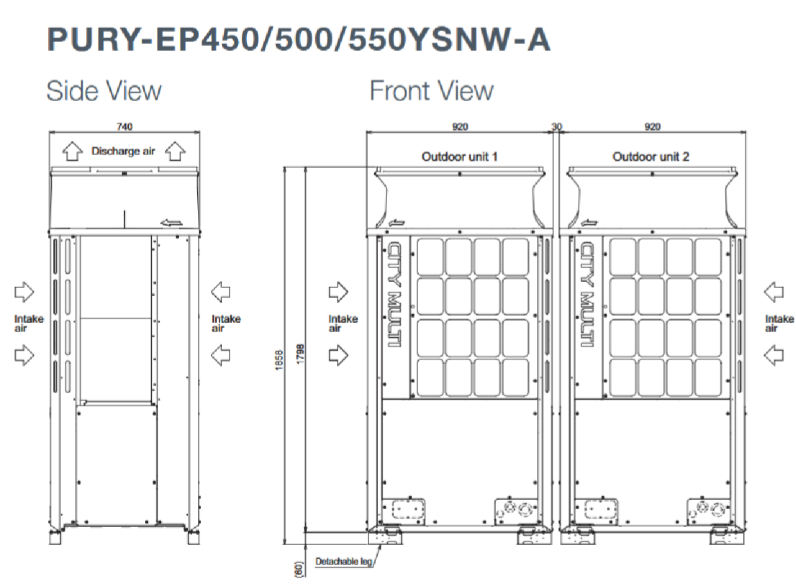


- NOTES:
1. THIS DRAWING HAS BEEN PREPARED FOR DETAILED REVIEW PURPOSES ONLY IN ACCORDANCE WITH RIBA STAGE 4A – TECHNICAL DESIGN (PRE-TENDER) AND ISO 19650 STATUS S3 (SUITABLE FOR REVIEW & COMMENT).
 2. THE DRAWING REPRESENTS A DEVELOPED TECHNICAL DESIGN INTENDED TO SUPPORT MULTIDISCIPLINARY COORDINATION, TECHNICAL REVIEW, AND TENDER PREPARATION.
 3. THE INFORMATION SHOWN MAY BE USED TO INFORM TENDER DOCUMENTATION BUT DOES NOT CONSTITUTE A FINAL CONSTRUCTION ISSUE.
 4. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION, FABRICATION, INSTALLATION, OR PROCUREMENT.
 5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. DO NOT SCALE FROM THIS DRAWING.
 6. ALL DIMENSIONS, LEVELS, AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY RELIANCE.
 7. SYSTEM LAYOUTS, EQUIPMENT SELECTIONS, CAPACITIES, AND INTERFACES ARE BASED ON CURRENT DESIGN ASSUMPTIONS AND REMAIN SUBJECT TO CHANGE FOLLOWING DETAILED REVIEW, COORDINATION OUTCOMES, OR VALUE ENGINEERING.
 8. DETAILED BUILDERS' WORK, ACCESS REQUIREMENTS, MAINTENANCE CLEARANCES, SUPPORTS, FIXINGS, CONTROL STRATEGIES, AND COMMISSIONING REQUIREMENTS MAY NOT BE FULLY DEFINED AT THIS STAGE UNLESS SPECIFICALLY NOTED.
 9. ANY DISCREPANCIES, CONFLICTS, OR OMISSIONS IDENTIFIED SHALL BE REPORTED TO THE ENGINEER PRIOR TO TENDER ISSUE.
 10. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR USE OF THIS DRAWING BEYOND ITS STATED PURPOSE AND INFORMATION STATUS.

- DRAWING SPECIFIC NOTES:
1. LAYOUT AND DIMENSIONS OF ROOF-MOUNTED PLANT AND ENCLOSURE ARE INDICATIVE ONLY AND PROVIDED TO ILLUSTRATE DESIGN INTENT; FINAL ARRANGEMENT SUBJECT TO DETAILED DESIGN AND COORDINATION.
 2. FINAL EQUIPMENT SELECTION, SIZES, AND POSITIONS SHALL BE CONFIRMED PRIOR TO INSTALLATION.
 3. ACOUSTIC ASSESSMENT UNDERTAKEN USING MCS CALCULATION METHODS FOR INITIAL DESIGN PURPOSES; DETAILED ACOUSTIC ASSESSMENT MAY BE REQUIRED AT SUBSEQUENT DESIGN STAGES.
 4. STRUCTURAL SUPPORTS, LOADINGS, AND ROOF SUITABILITY TO BE DESIGNED AND VERIFIED IN SUBSEQUENT DESIGN STAGES.
 5. ROOF ACCESS, SAFE WORKING ZONES, AND MAINTENANCE STRATEGY TO BE CONFIRMED IN SUBSEQUENT DESIGN STAGES.
 6. INDICATED PLANT LOCATION AND ENCLOSURE EXTENTS ARE SUBJECT TO MULTIDISCIPLINARY COORDINATION.
 7. DISTANCES TO SURROUNDING FEATURES AND RECEPTORS ARE INDICATIVE AND PROVIDED FOR CONTEXT ONLY.
 8. EXTENTS OF ACOUSTIC TREATMENTS AND PLANT ARRANGEMENT SUBJECT TO FINAL EQUIPMENT SELECTION.

OUTDOOR UNITS		PURY-EP450YSNW-A
CAPACITY (kW)	Heating (nominal)	56.0
	Cooling (nominal)	50.0
	High Performance Heating (UK)	56.0
	COP Priority Heating (UK)	51.0
	Cooling (UK)	44.8
POWER INPUT (kW)	Heating (nominal)	10.76
	Cooling (nominal)	10.04
	High Performance Heating (UK)	17.00
	COP Priority Heating (UK)	10.76
	Cooling (UK)	5.82
COP / EER (nominal)		5.20 / 4.98
SCOP / SEER		-
MAX No. OF CONNECTABLE INDOOR UNITS		45
MAX CONNECTABLE CAPACITY		50-150% OU Capacity
AIRFLOW (m³/min)	High	170 / 185
PIPE SIZE mm (in)	Gas	28.58 (1-1/8")
	Liquid	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)		63.5
SOUND POWER LEVEL (dBA)		82.5
WEIGHT (kg)		234 + 234
DIMENSIONS (mm)	Width	920 + 920
	Depth	740
	Height	1858
(1799mm without legs)		
ELECTRICAL SUPPLY ²		380-415v, 50Hz
PHASE ²		Three
STARTING CURRENT (A) ²		8
NOMINAL SYSTEM RUNNING CURRENT (A) ²	Heating / Cooling [MAX]	16.6 / 15.5 [16.1 + 17.0]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-20 -15.5 / -5 -52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ²		1 x 20 / 1 x 20
MAINS CABLE No. Cores ²		4 + earth / 4 + earth
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R410A (GWP 2088)		10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R410A (GWP 2088)		53.6 / 111.9



REV.	DATE	DESCRIPTION	DRN.	CHK.	APP.
P01	13/02/26	SUIT. FOR REVIEW & COMMENT	VA	MW	MF
P02	02/04/26	SUIT. FOR REVIEW & COMMENT	VA	MW	MF

Mantis™ Net Zero Design & Build					
WILMSLOW HOUSE, GROVE WAY, WILMSLOW, SK9 5AG WWW.MANTISENERGY.CO.UK					
CLIENT:	DIOCESE OF BLACKBURN				
PROJECT NUMBER:	P124				
PROJECT TITLE:	PILLING ST JOHN'S PRIMARY SCHOOL				
DRAWING NAME:	PROPOSED PLANT LOCATION				
DATE:	02/04/26	SCALE @ A1:	1:150		
DRAWN BY:	VA	CHECKED BY:	MW		
DRAWING NUMBER:	PSDS_13-ME-ZZ-DR-M-50-0002	REV:	P02	STATUS:	S3