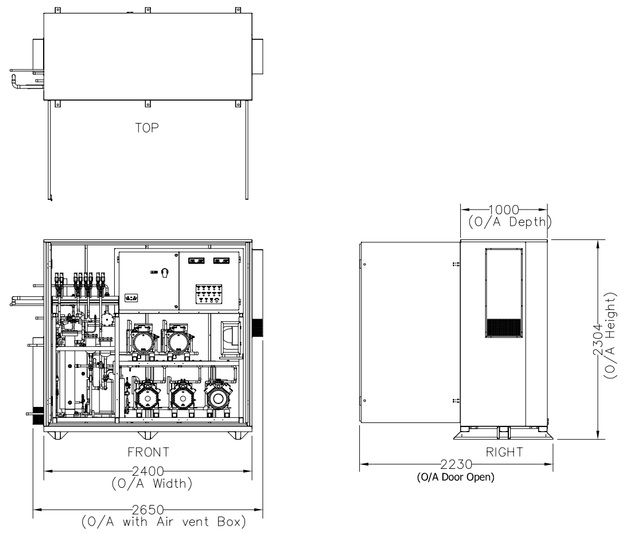
REVISION

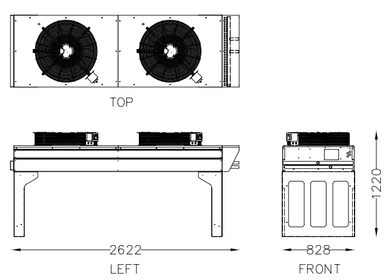
PLANT DETAILS 1:50



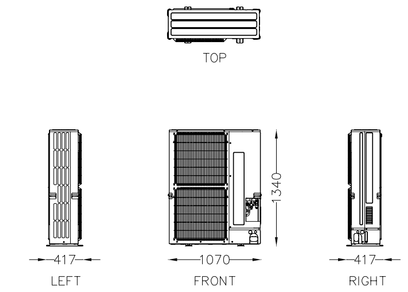
DA PACK

SCALE 1:50

0m 1 2 3 4 5 10



DA GAS COOLER

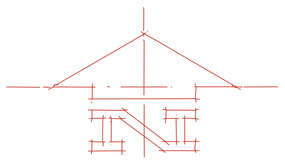


AC UNIT

SCALE 1:500

0m 5 10 15 20 30 40 50

BLOCK PLAN 1:500



SCALE 1:1250

0m 10 15 20 30 40 50 100

LOCATION PLAN 1:1250

Compressor Pack Details — DAPACK

New / Existing	Manufacturer	Model	Pack Controller	Compressor Temp Range	Compressor Model	Design Frequency (Hz)	Max Frequency (Hz)	Min Frequency (Hz)	Design Evap Temp (°C)	Max Evap Temp (°C)	Min Evap Temp (°C)	Design Load (kW)	Utilisation Factor Capacity	Utilisation Factor Load	Min Capacity % Design Load	Design Heat Rejection (kW)	Max Heat Rejection (kW)	Min Heat Rejection (kW)	Design Power Input (kW)	Max Power Input (kW)	Min Power Input (kW)
						Transcritical Performance															
New	Hubbard	Special Build STDX/TK (Modified)	RDM PROBOO	HT	2MTE-6K (INV)	65	70	30	6.560	7.250	1.820					15.480	16.830	6.700	5.430	5.870	2.520
					2MTE-6K	50	50	OFF	4.890	4.960	0.000					11.540	11.520	0.000	4.110	4.110	0.000
					HT Total				11.450	12.210	1.820	11.365	99.258%	93.079%	16.014%	27.020	28.350	6.700	9.540	9.980	2.520
				LT	2MME4K (INV)	69	70	30	4.240	4.300	1.730								1.050	1.070	0.460
					LT Total				4.240	4.300	1.730	4.195	98.935%	97.558%	41.240%				1.050	1.070	0.460
					Pack Totals				15.690	16.510	3.550	15.560				27.020	28.350	6.700	10.590	11.050	2.980
				Design Capacity COP	1.482			Min. re	42.57%			Vessel Volume (dm³)		40							
			COP At Design Ambient	Max Capacity COP	1.494																
				Min Capacity COP	1.191			Max Discharge Temp (°C)	147.6			Pressure Equipment Category		III							

Physical Weight (kg)	Length of Unit (mm)	Width of Unit (mm)	Height of Unit (mm)	Sound dB(A) @ 10m SAT	Sound dB(A) @ 10m NIGHT	Electrical Design Run Current (A)	Full Load Current (A)	Power Supply	Notes:
~1800	2650	1049	2304	20	20	42	60	400v 3P & N	The plant consists of a modified ~~Dorin~~ TK housed pack with a different secondary HT compressor. The gas cooler is standard tender spec.

Gas Cooler Details — DA GAS COOLER

New / Existing	Manufacturer	Model	General Details: Capacity (kW)	Fan Control Type	Orientation	Number of Fans	Fin Coating	Weight (kg)	Physical: Length of Unit (mm)	Width of Unit (mm)	Height of Unit (mm)	Sound dB(A) @ 10m DAY	Sound dB(A) @ 10m NIGHT	Internal Volume (dm³)	Day Time (rpm)/(volt)	Night Time (rpm)/(volt)	Electrical: Starting Current Per Fan (A)	Full Load Current Per Fan (A)	Power Supply
New	Kelvion	GF-6A102VEM 06350233	38.03	EC	Horizontal	2	Blygold	213	2632	828	970	20	20	16.5	330/3.3	330/3.3	0.4	0.3	400v 3P & N

Heat Pump Details For Zone: Sales Area — ACU-01 & ACU02 Systems

AC I.D.	Model	Outdoor / Indoor	Manufacturer	System Type	New / Existing	Refrigerant	Pipe Length (m)	Refrigerant Charge (inc. Additional) (kg)	Cooling Capacity (kW) @ 35°C Ambient	Heating Capacity @ 0°C External Ambient, 19°C Room (kW)	Cooling Load (kW)	Utilisation In Cooling	Total Zone Heating Capacity (kW)	Zone Heating Load (kW)	Utilisation In Heating	Power Input (Nominal) (Heating) (kW)
ACU-01	PUZ-ZM140YKA	Outdoor	Mitsubishi Electric	Split	New	R32	34	4.160								3.830
ACU-02	PUZ-ZM140YKA		Mitsubishi Electric	TwinSplit	New	R32	40	4.400								3.830
ACT-01	PLA-ZM140EA		Mitsubishi Electric	Split	New	R32			0.000	9.990						
ACZ-01	PLA-ZM71EA	Indoor	Mitsubishi Electric	TwinSplit	New	R32			0.000	4.980	–	–	19.950	19.184	96.16%	
ACZ-02	PLA-ZM71EA		Mitsubishi Electric	TwinSplit	New	R32			0.000	4.980						

Physical (Outdoor Unit, Each) (ERCB ACU02) — Electrical(Outdoor Unit, Each) (ADBB ACU02)

Weight (kg)	Length of Unit (mm)	Width of Unit (mm)	Height of Unit (mm)	Sound dB(A) @ 10m DAY	Sound dB(A) @ 10m NIGHT	Starting Current (A)	Full Load Current (A)	Fuse Rating (A)	Power Supply
131	1050	370	1338	52	0	6	13.7	16	400v 3P & N

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Wellsfield Associates
York House
Westview Drive
Rayleigh, Essex.
SS6 7AU
Mob No 07766 221958
chris@wellsfieldassociates.co.uk

project

CO-OP SUPERMARKET
77 WATCHGATE
LANE END
DARTFORD
DA2 7JY

O S EXTRACT AND DETAILS

date NOV 23

drawn C.J.J.

scale 1:500, 1250, 50 @A1

drg no. 3843.12