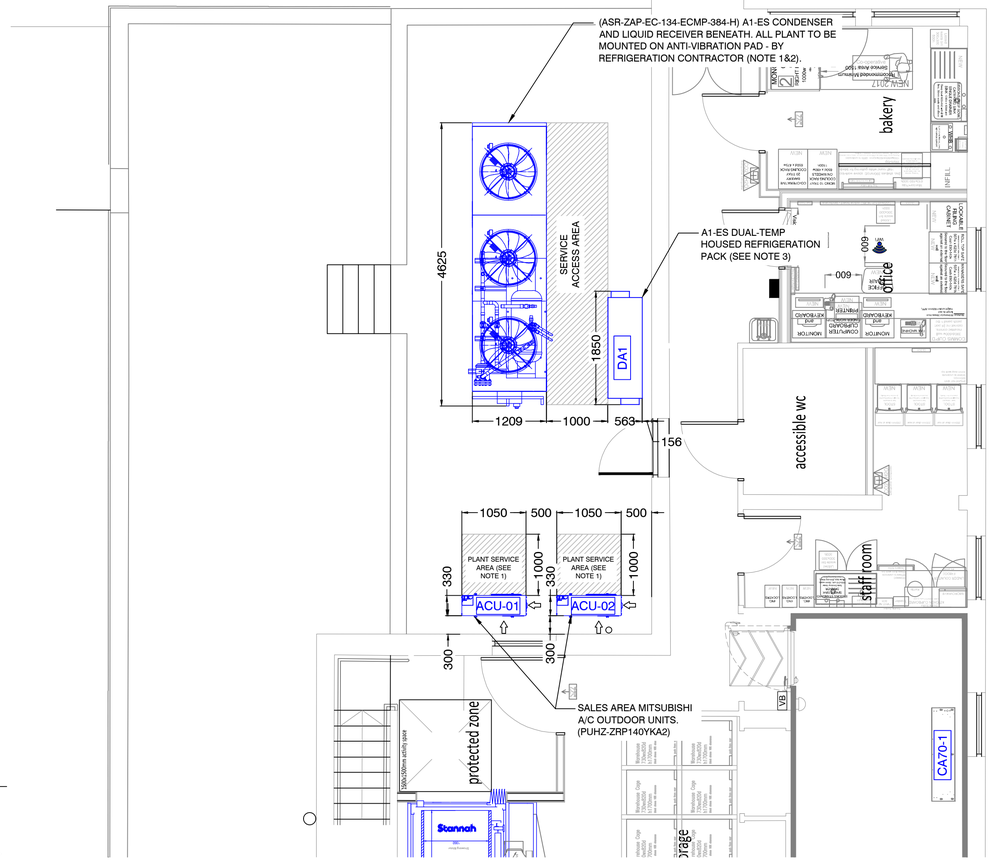
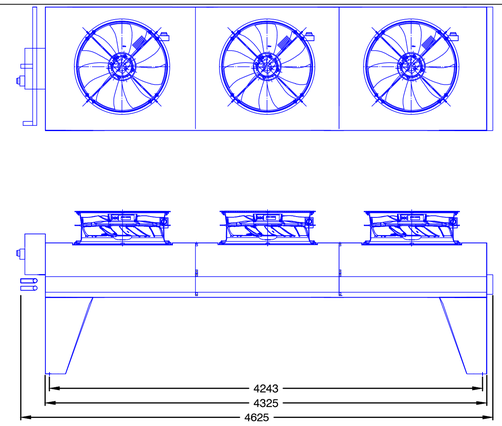
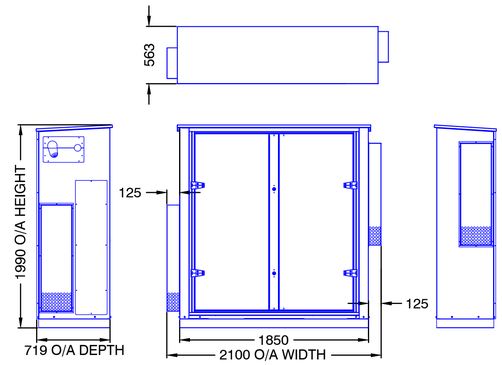
GROUND FLOOR PLAN





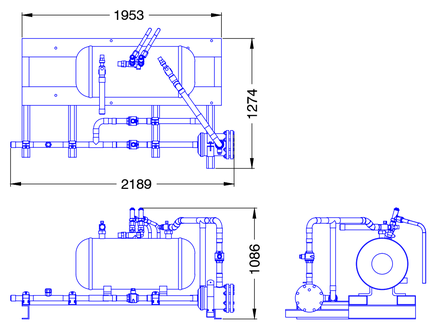
RIVACOLD CONDENSER (ASR-ZAP-EC-134-ECMP-384-H)

SCALE 1 : 30

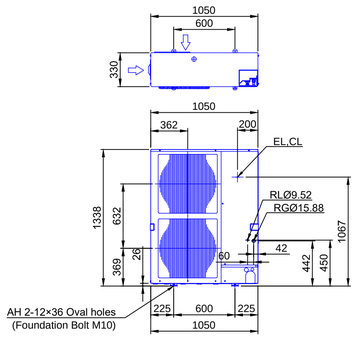


A1-ES DU-AL TEMP REFRIGERATION COMPRESSOR PACK

SCALE 1:30



30 LITRE RECEIVER STANDARD ASSEMBLY



PUHZ-RP140YKA

A1 Engineering — REFRIGERATION PACK SELECTION — PACK DETAILS — R407a

Reference	Compressor Model	Manufacturer	New/Exist	SST (°C)	Evap Capacity (kW)	THR (kW)	Design current (A/ph)	Full load Current (A/ph)	Electrical Connection	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Max dBA Rating @10m
HA1-01	ZBD45KCE-TFD	Copeland	New	-7	11.55	15.55	8.83	12.30	415v/3ph/50hz	1850	563	1990	1260	25
HA1-02	ZB45KCE-TFD	Copeland	New	-7	11.55	15.65	9.30	13.10						
HA1-03	ZB45KCE-TFD	Copeland	New	-7	11.55	15.65	9.30	13.10						
				HT TOTALS	**34.65**	**46.85**	**27.43**	**38.50**						
LOW TEMPERATURE COMPRESSOR SELECTION														
LA1-01	ZF15K4E-TFD	Copeland	New	-31	3.13	6.38	6.70	10.00						
LA1-02	ZF15K4E-TFD	Copeland	New	-31	3.13	6.38	6.70	10.00						
				LT TOTALS	**6.26**	**12.76**	**13.40**	**20.00**						
PACK TOTALS					**40.91**	**59.61**	**40.83**	**58.50**						

CONDENSER SELECTION — Refrigerant R407a

Reference	Model	Manufacturer	New / Existing	Condensing / Ambient Temperature (°C)	TD (K)	THR (kW)	Current @ Design (per fan) (A)	Full Load Current (per fan) (A)	Supply Voltage & Phase	Run speed signal voltage (0-10v) (Day / Night)	RDM Setback Setting (Day / night)	Condenser Inlet & Outlet Sizes (In / Out)	Dimensions (LxWxH) (mm)	Pipe / Fin Material	Weight (kg)	dB(A) @ 10m Day / Night
CON-01	ASR-ZAP-EC-134-ECMP-384-H	A1-ES	New	43-35	8	60.00	0.15	3	400-3-50/60	4.0-2.3	60 / 77	1.3/8 - 1.1/8	4625 x 1210 x 1760	AM-BG	692	25-20

Receiver Detail

Reference	Manufacturer	Orientation	Size (ltr)	Connections sizes Inlet / Outlet
RA	A1 Engineering	Horizontal	30	1-1/8

Air Conditioning - Selection Details — Refrigerant R410a

Item (Sys-FCU)	Model	Make	New/Existing	Type	Position	Duty - Cooling (kW)	Duty - Heating (kW)	MCB Rating	Electrical Connections	FLA	Weight (kgs)	Refrigerant weight (kg)	Tail Sizes (S&L)	Dimensions (L x W x H)	Pipe / Fin Material	Noise dBa @1m
ACU-01	PUHZ-ZRP140YKA2	Mitsubishi	New	Outdoor unit	Plant	-	-	16	380-415v,50Hz	8.09	131	5	5/8",3/8"	1050 x 330 x 1338	ABG	52
ACU-02	PUHZ-ZRP140YKA2	Mitsubishi	New	Outdoor unit	Plant	-	-	16	380-415v,50Hz	8.09	131	5	5/8",3/8"	1050 x 330 x 1338	ABG	52

AB Group - Head Office
Bank Chambers, 2 Church Street,
Reigate, Surrey,RH2 0AN.
Tel: 0333 9000 180
abgroup.com

AB Group - Northern Office
Fourways House, 57 Hilton Street,
Manchester, M1 2EJ.
Tel: 0333 9000 180
abgroup.com

design consult manage maintain

AB group abgroup.com

SCALE 1:50 (1000 2000) DO NOT SCALE

THIRD ANGLE PROJECTION

LEGEND

HA01-1 FIXTURE NUMBER

1. SMOOTH AND LEVEL BASE CONCRETE PLINTH REQUIRED FOR REFRIGERATION PLANT AND AC OUTDOOR UNITS - TO BE PROVIDED BY THE BUILDER.
2. AC UNIT - REQUIRED TO BE MOUNTED ON SUITABLE ANTI-VIBRATION PAD.
3. COMPRESSOR PACK - TO BE MOUNTED ON SUITABLE ANTI-VIBRATION MOUNT.
4. CONDENSER - TO BE MOUNTED ON SUITABLE ANTI-VIBRATION STRIP.

Notes

PRELIMINARY

Revision	Details	Drawn	Date
04	Store plan, engineering schedule and plant layout updated re:P1F9M0. Plant area relocated to roof.	VA	16.08.2017
03	Store plan, engineering schedule and plant layout updated re:P1F6M1.	VA	08.03.2017
02	X2 AC replaced with a jaguar box. Updated table. Plant area extended.	RA	28.07.2016
01	Rotated outdoor AC plant. Updated table. Removed noise levels from condenser.	RS	18.07.2016
00	Preliminary issue.	VA	10.06.2016

Site Address: The Co-operative SOUTH SHIELDS Mortimer Road, Tyne & Wear NE34 0RU

Drawing Title: PROPOSED REFRIGERATION PLANT LAYOUT.

Consultant: Raymond Caldwell

Design Engineer: Jonathan Hill

Date: 10.06.2016 **Drawn By:** VA

Checked By: J Hill **Drawing No:** CR3

Revision: 04 **Scale:** 1:50@A1

Contract No: QR C1901 **Derived File:** P1F9M0