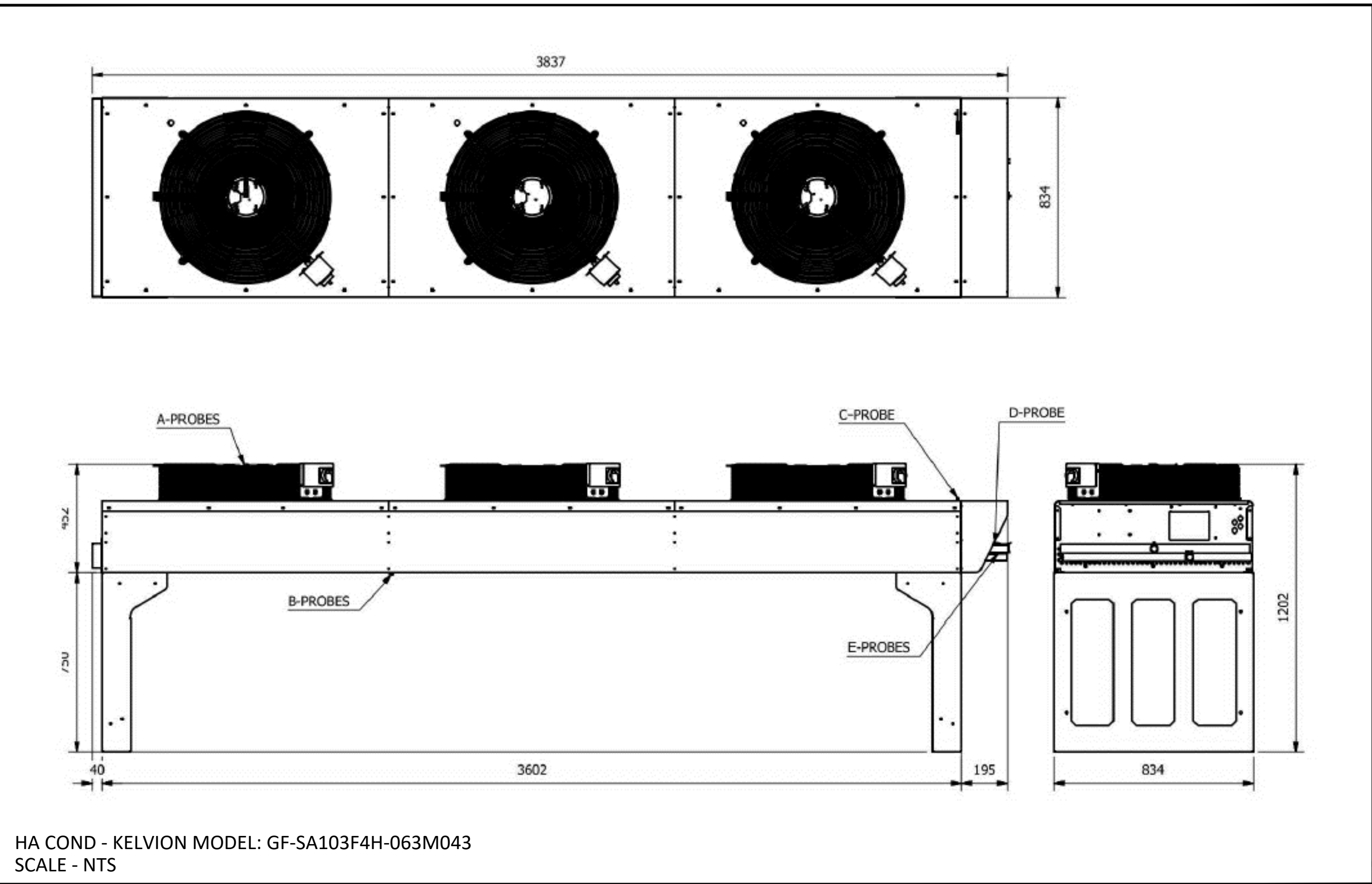
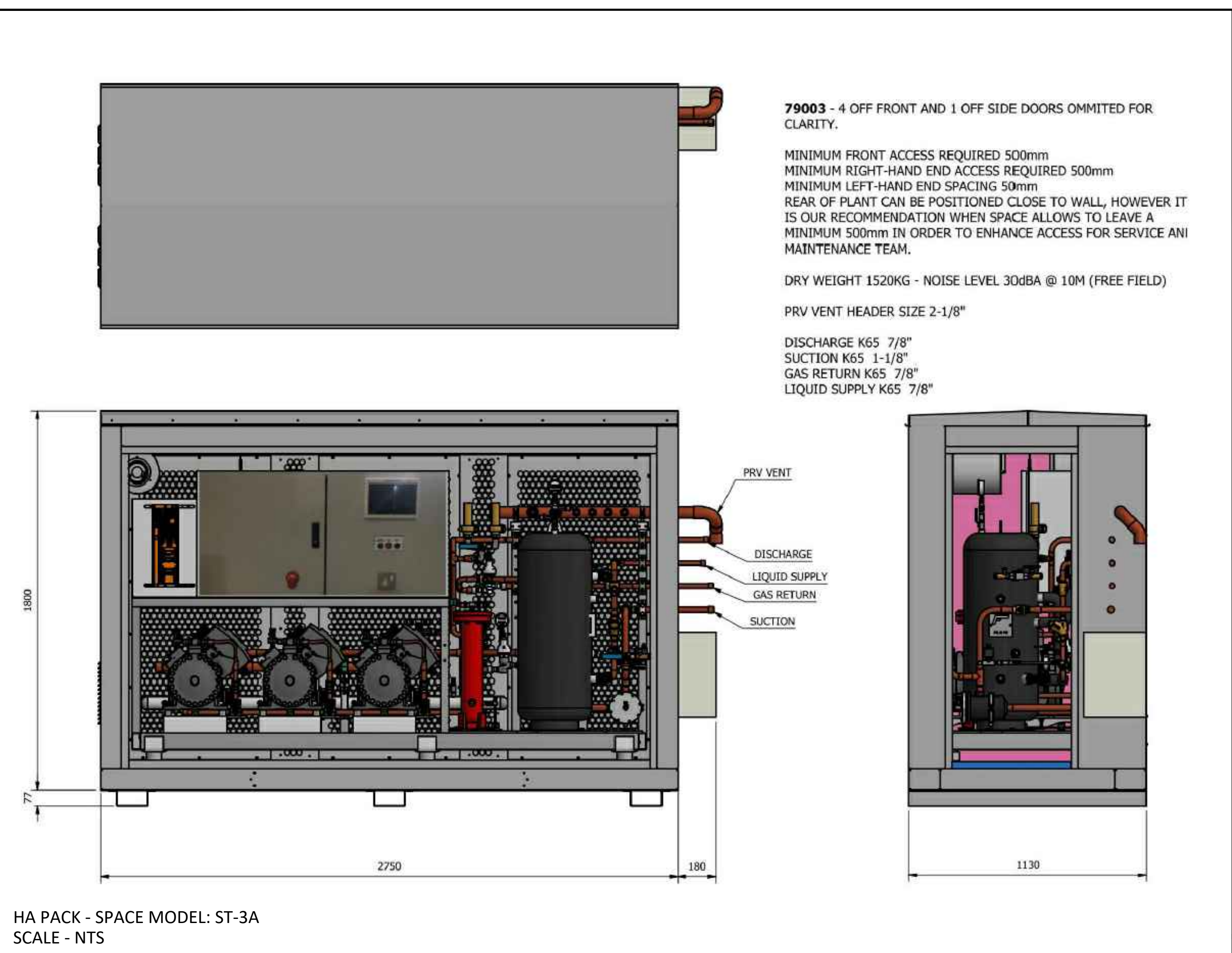
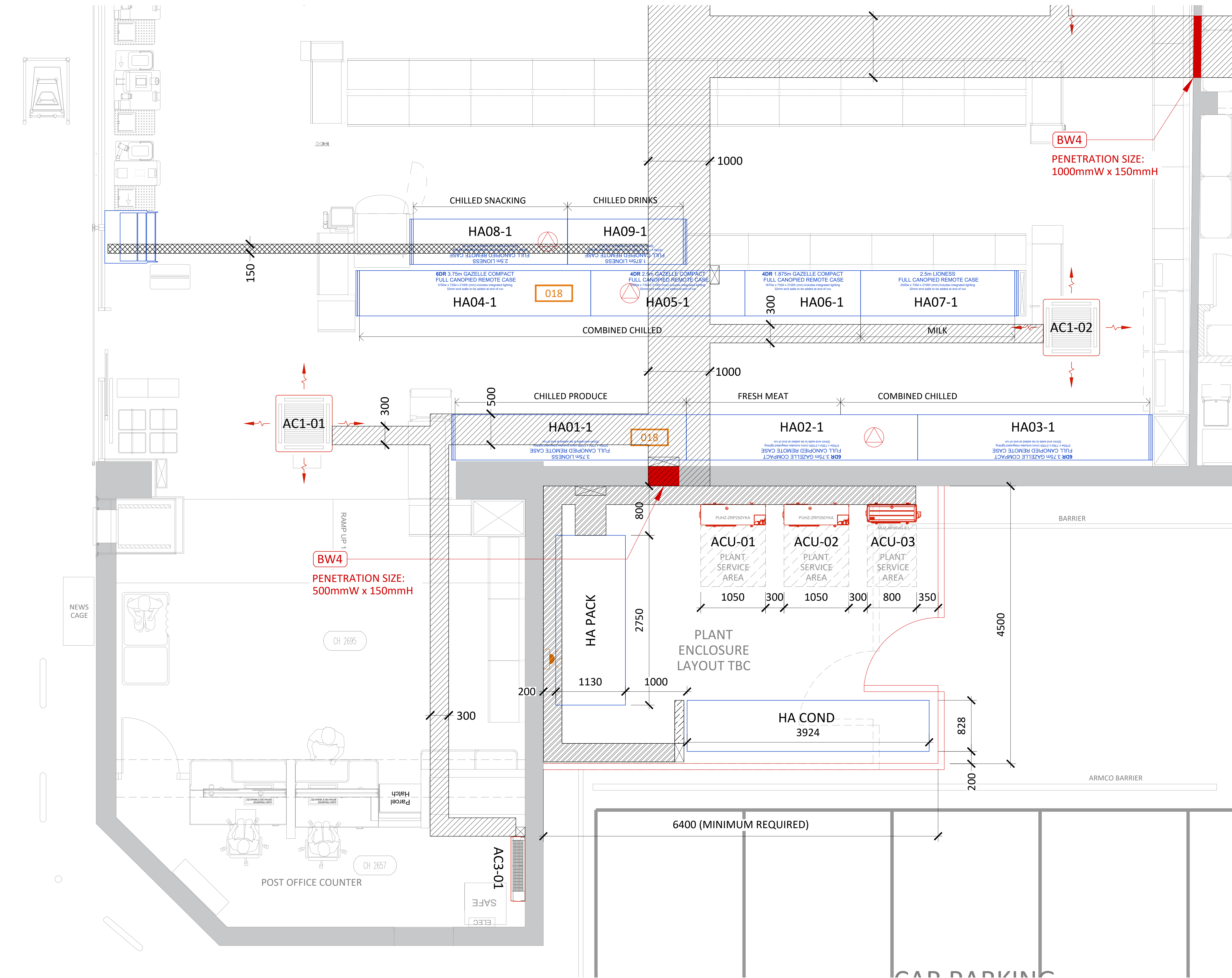




- NOTES**
- DO NOT SCALE FROM THIS DRAWING.
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- KEY**
- REFRIGERATION PIPEWORK RISER
 - HIGH LEVEL REFRIGERATION SERVICES
 - LOW LEVEL REFRIGERATION SERVICES
 - ELECTRICAL SERVICES
 - PRV VENT LINE
 - PENETRATION / BUILDERSWORK
 - WHITE STEEL COLUMN
 - CONDENSATE DRAIN PUMP
 - GRAVITY DRAINAGE (NEW)
 - GRAVITY DRAINAGE (EXISTING)
 - CONDENSATE DRAIN ROUTE
 - 541 RDM DATA MANAGER
 - 018 RDM PHI MERCURY SWITCH
 - 150E COLDROOM CONTROL PANEL (ELECTRONIC)
 - 150M COLDROOM CONTROL PANEL (MECHANICAL)
 - REFRIGERATION DISTRIBUTION BOARD
 - PLANTSaver 2D LIGHT
 - LEAK DETECTION BEACON/ SOUNDER (AUDIO/VISUAL)
 - LEAK DETECTION BEACON (VISUAL ONLY)
 - LEAK DETECTION TEST BUTTON (INSTALLED @ 1500mm AFFL)
 - LEAK DETECTION POINT DETECTOR
 - BW1 BUILDERS WORK REFERENCE NUMBER
 - SYSTEM I.D. NUMBER
 - COLDROOM ENTRAPMENT PUSH BUTTON (WITH GUARD)
 - AC CASSETTE UNIT
 - AC WALL MOUNTED UNIT
 - AC EXTERNAL UNIT

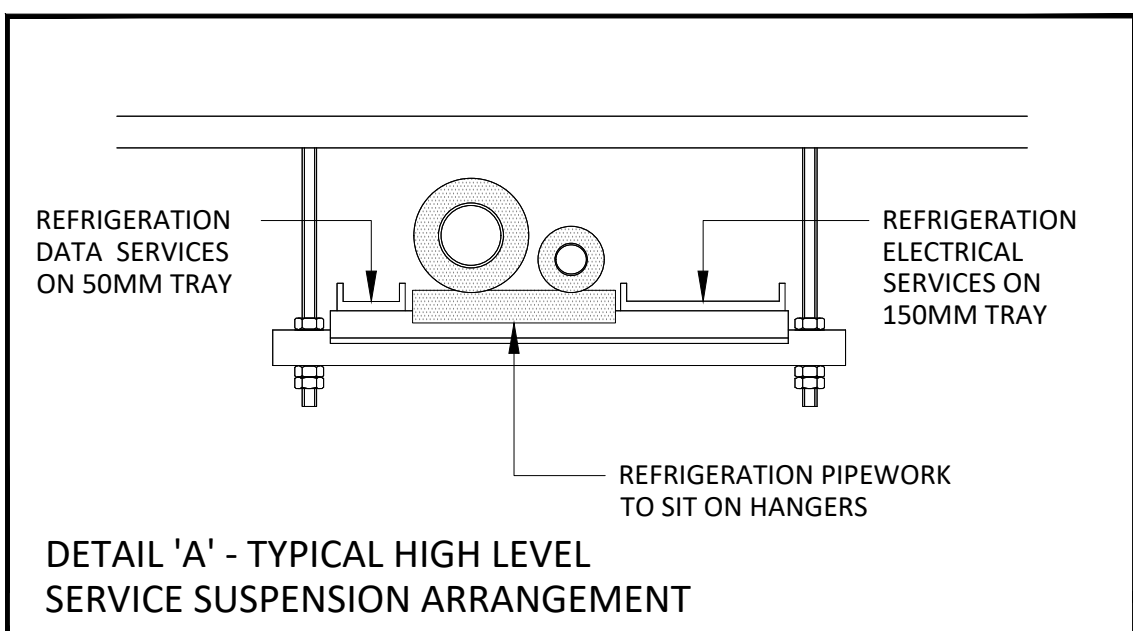
PACK REF	NEW / EXISTING	MANUFACTURER	MODEL	REFRIGERANT	TOTAL SYSTEM REFRIGERANT (kg)	RECEIVER VOLUME (litres)	HT CAPACITY kW @ 4.5/5.1	COMPRESSOR NO	COMPRESSOR MODEL	PACK DESIGN RUN CURRENT (AMPS)	MAXIMUM FULL LOAD CURRENT (AMPS)	SUPPLY VOLTAGE	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (kg)	SOUND LEVEL DAY TIME (dB(A) @ 10m)	SOUND LEVEL NIGHT TIME (dB(A) @ 10m)
HA PACK	NEW	SPACE ENGINEERING	ST-3A	R744	60	60	36	HT COMP 1	4MTL-07X	48.7	66.5	TP&N	2750	1130	1800	1670	30	30
								HT COMP 2	4MTL-07X									
								HT COMP 3	4MTL-07X									

GAS COOLER REF	NEW / EXISTING	MANUFACTURER	MODEL	REFRIGERANT	CONDENSER THR kW	NUMBER OF FANS	RUN CURRENT PER FAN (AMPS) @ 230V	SUPPLY VOLTAGE	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (kg)	SOUND LEVEL DAY TIME (dB(A) @ 10m)	SOUND LEVEL NIGHT TIME (dB(A) @ 10m)
HA COND	NEW	KELVION	GF-SA103F4H-063M043	R744	61.7	3	0.3	TP&N	3924	828	1570	196	24	24

BUILDERS WORK (BW1)

- BW1:** Task lighting to plant location
BW2: Flat, level and smooth concrete plinth for plant
BW3: Protection barrier, with access gate, around the plant location
BW4: Holes through the wall and making good
BW5: Removal and refitting of ceiling tiles for services installation
BW6: Aesthetic cladding around the services as necessary
BW7: Provide drain upstands to terminate condensate drain pipework
BW8: Provide gravity drainage points to terminate condensate drain pipework
BW9: Ensure fascia boards do not protrude above Freezer cases and BWS cases (for access to controllers above)
BW10: 50mm concrete plinth for external Freezer Coldroom
BW11: Weatherproof cover to external Freezer Coldroom

REFERENCE	MODEL	MANUFACTURER	NEW / EXISTING	TYPE	REFRIGERANT	DUTY - UK HEATING (kW)	DUTY - UK COOLING (kW)	ELECTRICAL SUPPLY	P.S.A (AMPS)	WEIGHT (kg)	REFRIGERANT CHARGE (kg)	PIPE SIZES (SUCTION / LIQUID)	DIMENSIONS (mm (L x W x H))	SOUND POWER LEVEL (dB(A))
ACU-01	PUH2-ZRP250YKA	MITSUBISHI	NEW	OUTDOOR UNIT	R410A	22.95	20.25	TP&N	21	135	8.0	1-1/8" / 1/2"	1050 X 530 X 1338	73
AC1-01	PLA-ZM125EA	MITSUBISHI	NEW	INDOOR UNIT	R410A	11.9	11.5	FED BY OUTDOOR UNIT	N/A	31	NA	5/8" / 3/8"	950 X 950 X 338	66
AC1-02	PLA-ZM125EA	MITSUBISHI	NEW	INDOOR UNIT	R410A	11.9	11.5	FED BY OUTDOOR UNIT	N/A	31	NA	5/8" / 3/8"	950 X 950 X 338	66
ACU-02	PUH2-ZRP250YKA	MITSUBISHI	NEW	OUTDOOR UNIT	R410A	22.95	20.25	TP&N	21	135	8.0	1-1/8" / 1/2"	1050 X 530 X 1338	73
AC2-01	PLA-ZM125EA	MITSUBISHI	NEW	INDOOR UNIT	R410A	11.9	11.5	FED BY OUTDOOR UNIT	N/A	31	NA	5/8" / 3/8"	950 X 950 X 338	66
AC2-02	PLA-ZM125EA	MITSUBISHI	NEW	INDOOR UNIT	R410A	11.9	11.5	FED BY OUTDOOR UNIT	N/A	31	NA	5/8" / 3/8"	950 X 950 X 338	66
ACU-03	MUZ-AP35VG-E1	MITSUBISHI	NEW	OUTDOOR UNIT	R32	3.28	3.26	SINGLE PHASE	8.46	31	1.5	3/8" / 1/4"	800 X 285 X 550	61
AC3-01	MSZ-AP35VG-E1	MITSUBISHI	NEW	INDOOR UNIT	R32	3.28	3.26	FED BY OUTDOOR UNIT	N/A	10.5	NA	3/8" / 1/4"	798 X 219 X 299	57



Rev	Date	Description	Drawn By
8	27/11/2019	Updated to suit TCG drawing number HOYLAND RDAD-P4 F11 MD.	M.Mc
A	24/06/2019	Updated to suit TCG drawing number HOYLAND RDAD-P4 F11 MD.	NP
-	26/04/2019	First issue. Based on TCG drawing number HOYLAND RDAD-P4 F5 MD.	M.Mc

CARTER SYNERGY SERVING THE BUILT ENVIRONMENT

Client



Project
HOYLAND RD. BARNSELEY
SOUTH YORKSHIRE S74 0NE

Drawing Title
REFRIGERATION & AIR CONDITIONING
PLANT LAYOUT



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Drawing Status	Scale	Date	Drawn By	Checked
FOR INFORMATION	1:50 @ A0	NOV '19	M.Mc	S.L.
	Project No.	Drawing No.	Revision	
		CR3	B	