

HT 1 Pack / Compressor Data																						
Pack ID	New / Existing	SST °C	Pack Manufacture	Pack Model	Compressor Manufacture	Compressor Model	HP (Each)	S/Heat @ Load (K)	Suction Gas Return Temp (°C)	Sub Cooling (K)	Gas Type	Ref Capacity @ Selected Condition	Evap Capacity @ Selected Condition	Power Absorbed @ Selected Condition	Full Load Current (Amps)	Locked Rotor (Amps)	Amps @ Selected Condition	THR (KW)				
HA	New	-9	Hubbard	External Modular HT Pack	Copeland	ZBD45KCE-TFD	6	10	11	5	R407a	10.5	9.93	4.13	12.30	74.00	8.35	14.63				
						ZB45KCE-TFD	6	10	11	5	R407a	10.55	9.98	4.28	13.10	74.00	8.88	14.83				
						ZB45KCE-TFD	6	10	11	5	R407a	10.55	9.98	4.28	13.10	74.00	8.88	14.83				
						ZB45KCE-TFD	6	10	11	5	R407a	10.55	9.98	4.28	13.10	74.00	8.88	14.83				
						ZB45KCE-TFD	6	10	11	5	R407a	10.55	9.98	4.28	13.10	74.00	8.88	14.83				
						ZB45KCE-TFD	6	10	11	5	R407a	10.55	9.98	4.28	13.10	74.00	8.88	14.83				
												63.3	59.8	25.5	77.8		62.8	88.8				
HT 1 Condenser Data																						
Sys No.	New / Existing		Manufacture	Model	EC Fan Speed (rpm)	Qty of Fans	KW THR @8K	TD (K)	Power Supply	Star, Delta or EC (S,D or EC)	Starting Current, Per Fan (Amps)	Max Current, Per Fan (Amps)	Max Power, Per Fan (Watts)	MAX Sound Level dB(A) @ 10m	MIN Sound Level dB(A) @ 10m (Peak Line Expected at 4 sec Load ESTIMATED)	Receiver Size	Refrigerant Charge (KG)	Weight (kg)	Controller Type	Fin / Coil Material	Alarm Zone	Leak Detection Zone
HA	New		Searle	RF-MB103L4H-091E	760	3	90.30	8 K	3PH	EC	4.9	3.5	1420	55	50	40	40	531	RDM	Cu/Al	tbc	tbc

LT 1 Pack / Compressor Data																		
Pack ID	New / Existing	SST °C	Pack Manufacture	Pack Model	Compressor Manufacture	Compressor Model	HP (Each)	S/Heat @ Load (K)	Suction Gas Return Temp (°C)	Sub Cooling (K)	Gas Type	Ref Capacity @ Selected Condition	Evap capacity @ Selected Condition	Power Absorbed @ Selected Condition	Full Load Current (Amps)	Locked Rotor (Amps)	Amps @ Selected Condition	THR (kW)
LA	New	-34	Hubbard	External Modular LT Pack	Copeland	ZFD18KVE-TFD EVI	6	10	-4	5	R407a	5.13	4.77	3.67	13.80	74.00	7.03	8.80
						ZF18K4E-TFD	6	10	-4	5	R407a	3.43	3.07	3.56	12.50	74.00	6.31	6.99
						ZF18K4E-TFD	6	10	-4	5	R407a	3.43	3.07	3.56	12.50	74.00	6.31	6.99
						ZF18K4E-TFD	6	10	-4	5	R407a	3.43	3.07	3.56	12.50	74.00	6.31	6.99
						ZF18K4E-TFD	6	10	-4	5	R407a	3.43	3.07	3.56	12.50	74.00	6.31	6.99
						ZF18K4E-TFD	6	10	-4	5	R407a	3.43	3.07	3.56	12.50	74.00	6.31	6.99

LT 1 Condenser Data																						
Sys No	New / Existing	Manufacture	Model	EC Fan Speed (rpm)	Qty of Fans	KW THR @8K	TD (K)	Power Supply	Star, Delta or EC (S,D or EC)	Starting Current, Per Fan (Amps)	Max Current, Per Fan (Amps)	Max Power, Per Fan (Watts)	MAX Sound Level dB(A) @ 10m	MIN Sound Level dB(A) @ 10m (Peak Line Expected at 40% Load ESTIMATED)	Receiver Size	Refrigerant Charge (KG)	Weight (kg)	Controller Type	Fin / Coil Material	Alarm Zone	Leak Detection Zone	
LA	New	Searle	RF-MB102L4H-091E	450	2	40.70	8 K	3PH	EC	4.9	3.5	330	40	35	30	30	456	RDM	Cu/Al	tbc	tbc	

Plant Reference	Manufacturer	Unit Type	Model	Equipment Location	Refrigerant	Overall Dimensions (mm)			Dry Weight (kg)	Air Volume (m³/s)	Sound Spectrum (dB)										Noise d8(A)@10M	
						Width	Length	Height			Condition	63Hz	125Hz	250Hz	500Hz	1k Hz	2K Hz	4K Hz	8K Hz			
HA	Hubbard	Modular Pack & Condenser	External HT Pack	External - Plant Area	R407A	1130	5010	2400	TBC	TBC	A	-	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	41
LA	Hubbard	Modular Pack & Condenser	External LT Pack	External - Plant Area	R407A	1130	3803	2400	TBC	TBC	A	-	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	28
											B	-	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	
Please Note:																						
o Condition A - Maximum plant operating conditions during trading (All compressors and fans in operation)																						
o Condition B - Figures based on store closed with no activity																						
o Noise levels on site may vary from figures given due to acoustic characteristics of the installation.																						

CONSTRUCTION & RESIDUAL RISKS	
	Toe protectors to be worn at all times.
	Protective gloves to be worn at all times.
	Hi-visibility vest to be worn at all times.
	Protective glasses to worn at all times.
	Compressed gases used in this area.
	Caution electrical cables.
	Danger live wires.
	Caution slippery surface
	Caution High Pressure

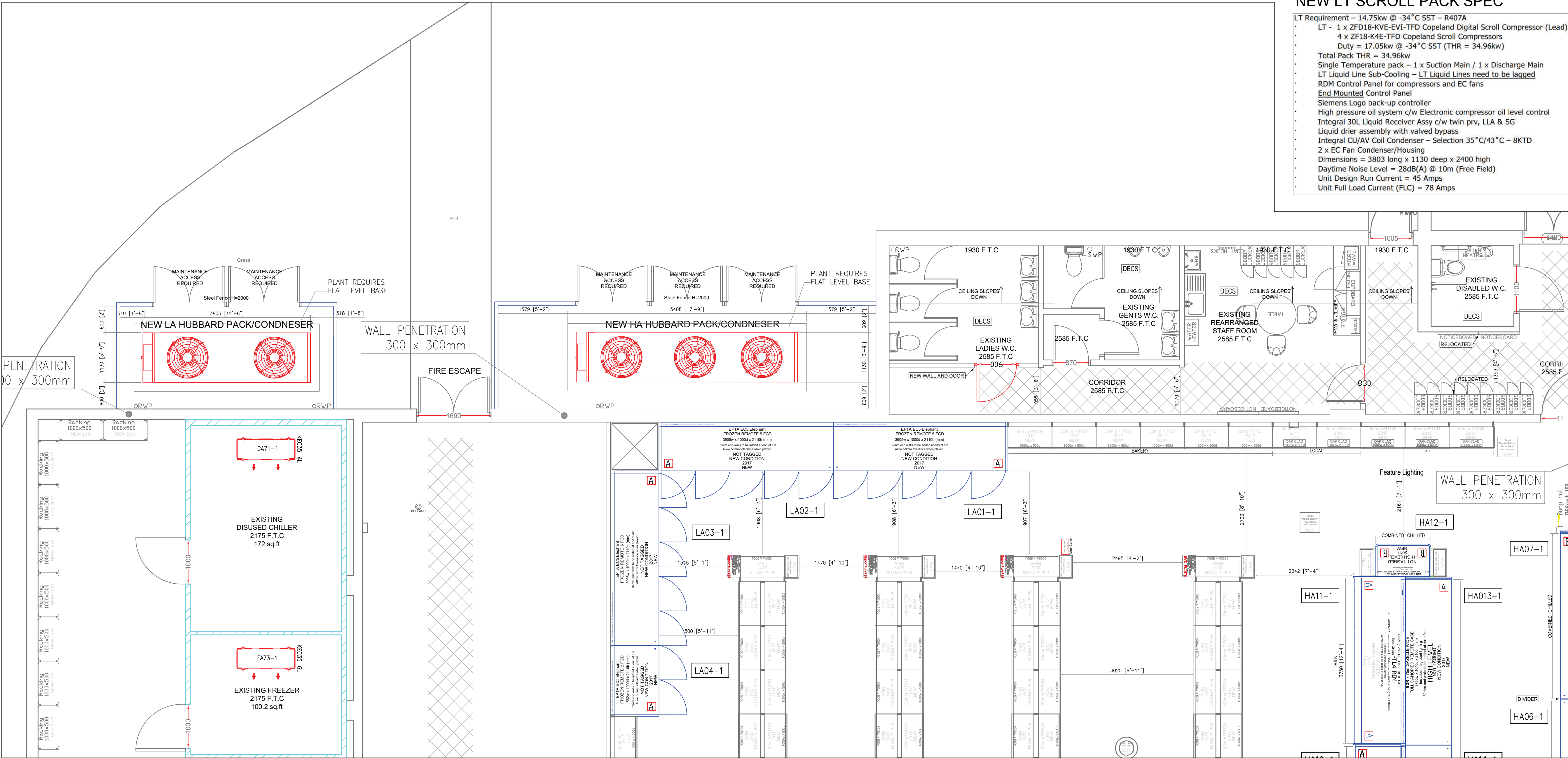


NEW HT SCROLL PACK SPEC

- HT Requirement – 57.33kw @ -9°C SST – R407A
- HT - 1 x ZBD45-KCE-TFD Copeland Digital Scroll Compressor (Lead)
 - 5 x ZB45-KCE-TFD Copeland Scroll Compressors
 - Duty = 59.83kw @ -9°C SST (THR = 84.40kw)
 - Total Pack THR = 84.40kw
 - Single Temperature pack – 1 x Suction Main / 1 x Discharge Main
 - RDM Control Panel for compressors and EC fans
 - Siemens Logo back-up controller
 - High pressure oil system c/w Electronic compressor oil level control
 - Integral 40L Liquid Receiver Assy c/w twin prv, LLA & SG
 - Liquid drier assembly with valved bypass
 - Integral CU/AV Coil Condenser – Selection 35°C/43°C – 8KTD
 - 3 x EC Fan Condenser/Housing
 - Axi-top units fitted to the EC condenser fans
 - Dimensions = 5010 long x 1130 deep x 2400 high
 - Daytime Noise Level = 41dB(A) @ 10m (Free Field)
 - Unit Design Run Current = 69 Amps
 - Unit Full Load Current (FLC) = 97 Amps

NEW LT SCROLL PACK SPEC

- LT Requirement – 14.75kw @ -34°C SST – R407A
- LT - 1 x ZFD18-KVE-EVI-TFD Copeland Digital Scroll Compressor (Lead)
 - 4 x ZF18-K4E-TFD Copeland Scroll Compressors
 - Duty = 17.05kw @ -34°C SST (THR = 34.96kw)
 - Total Pack THR = 34.96kw
 - Single Temperature pack – 1 x Suction Main / 1 x Discharge Main
 - LT Liquid Line Sub-Cooling – LT Liquid Lines need to be lagged
 - RDM Control Panel for compressors and EC fans
 - End Mounted Control Panel
 - Siemens Logo back-up controller
 - High pressure oil system c/w Electronic compressor oil level control
 - Integral 30L Liquid Receiver Assy c/w twin prv, LLA & SG
 - Liquid drier assembly with valved bypass
 - Integral CU/AV Coil Condenser – Selection 35°C/43°C – 8KTD
 - 2 x EC Fan Condenser/Housing
 - Dimensions = 3803 long x 1130 deep x 2400 high
 - Daytime Noise Level = 28dB(A) @ 10m (Free Field)
 - Unit Design Run Current = 45 Amps
 - Unit Full Load Current (FLC) = 78 Amps



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ALL DIMENSIONS DETAILED ON THIS DRAWING TO BE CHECKED ON SITE.

LEGEND

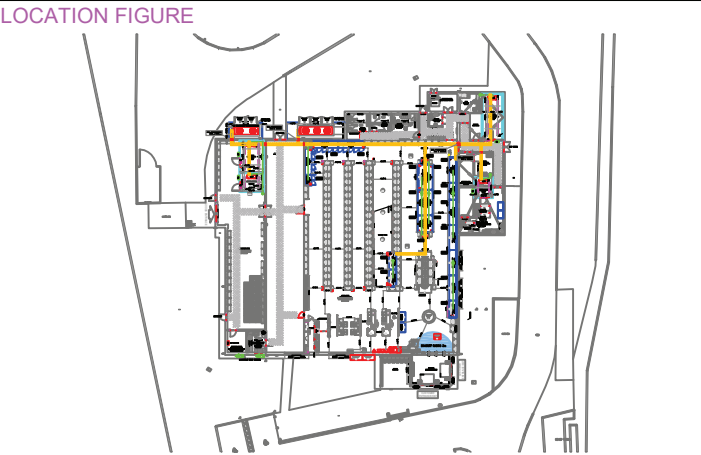
THE REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR SETTING OUT ALL EQUIPMENT PRIOR TO INSTALLATION.

THIS DRAWING HAS BEEN DETAILED FOLLOWING COORDINATION WITH CO-OP STORE PLANNING.

SMOOTH AND LEVEL BASE WITH +/-5MM TOLERANCE, CONCRETE PLINTH OR BEDDED SLABS REQUIRED FOR REFRIGERATION PLANT AND AC OUTDOOR UNITS - TO BE PROVIDED BY THE BUILDER.

01	TENDER ISSUE	JMB	15/12/1
REV	INFORMATION	DRN	DAT

DRAWING REVISION



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PLANT LAYOUT GROUND FLOOR

ABB EY PROJECT NO. 11936

DRAWING STATUS TENDER ISSUE

DATE PRODUCED 15/12/16 REV 0

DRAWING NO. CR3 DISCIPLINE REFRIGERATION

DRAWN J BIDDLE CHECKED A WILLIAMS