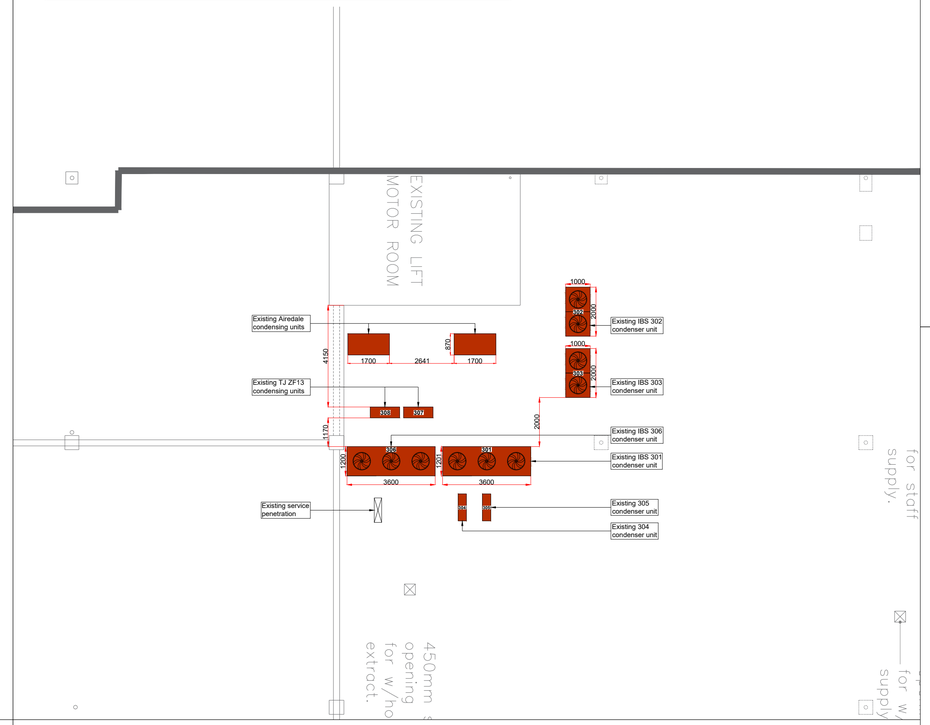
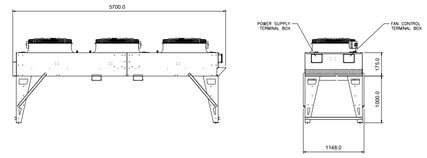
EXISTING PLANT LAYOUT- Warehouse



EXISTING PLANT LAYOUT- Roof



CLADE Gas Cooler
Model: CGFHDQ-135AM00-E9LL-H4
Noise Level @ 10m: 41.8dB(A)



Weight (dry approx.): 751kg

Gas cooler Data

Reference:	
Model:	CGFHDQ-135AM00-E9LL-H4
GAS COOLER	
Coil Code:	1 x CO-44-5-2.5-5400
Performance Sub-Critical	
Capacity	182.2 kW
Ambient	12 °C, 50 %RH
Condensing Temp.	22 °C
TD	10 K
Performance Supercritical	
Capacity	171.1 kW
Ambient	40°C
Gas Pressure	96 Bar
Gas Inlet	108°C
Gas Outlet	42°C
Volume flow Inlet	20 m3/hr
Volume flow Outlet	6.4 m3/hr
Mass Flow	3382 kg/hr
Pressure drop	40 kPa
DUMP COIL	
Coil Code:	N/A
Capacity	
Ambient	
Evaporating Temp	
TD	
AIR PERFORMANCE:	
Volume flow humid	12.8m3/s, (46230m3/hr)
Height over sea level	0 m
Pressure	1013.25 hPa
Number of Fans	3
External Resistance	0 Pa
Supply	400v 3ph 50/60hz
Fan Type	EC - 910 mm diameter
Speed Design / Maximum	612 / 640 rpm
Total Power Input	1612.7 W
Energy Rating	A
Full Load Current / Motor	1.1 A
Sound Power Level	73.7 dBA
Mean Sound Pressure @ 10m	41.8 dBA
PHYSICAL:	
Tube material	Copper - Plain
No Rows	5
Fin Material	Alum Mag
Fin Spacing	2.5 mm / 10.2 fpi
Surface	522.2 m2
Internal Volume	50.9 dm3
No Section / Coils	1 coil in 1 section
No Circuits	44
Connection Size	1 x 35 / 42
Unit Dimensions Width	1148 mm
Height + Fan	1175 mm
Length over headers	5700 mm
Weight (dry approx.):	751 kg

Note:

1. Refrigeration Contractor to advise on service penetrations prior to core drill.
2. Exposed Refrigeration services to receive top hat protection.
3. Existing concrete slab to be extended.
3. Plant Compound access doors and position to be agreed with refrigeration contractor and builder.
4. New plant compound to accommodate the plant.
5. Fire escape routes are to be maintained throughout the store refit and must not be obstructed at any time.

REV	DATE	DESCRIPTION	DRW	CHK
P01	07.01.2026	Pack & gas cooler model updated	NK	GE
P02	21.01.2026	ASHPs & Buffer vessel added	NK	GE
P03	23.02.2026	New CLADE refrigeration units added	NK	GE
P04	28.04.2026	Pack, gas cooler, CU's and plant arrangement updated	SP	GE
P05	03.06.2026	Gas Cooler updated	AD	GE

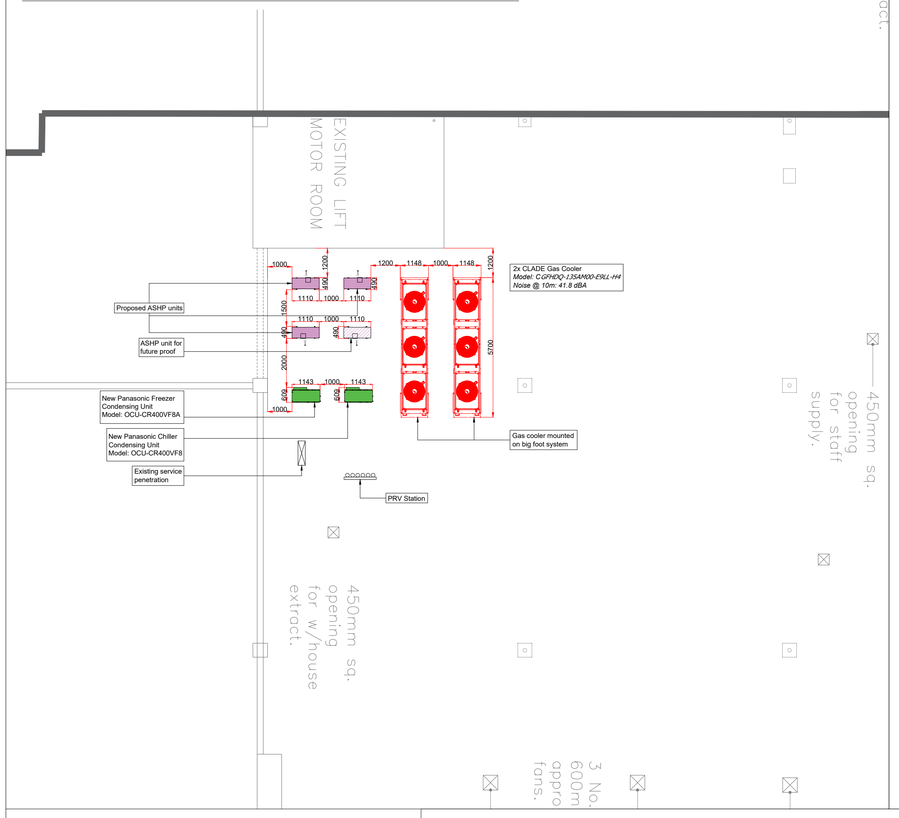
Plant Key:

- Existing - to remain in situ
- Existing - to be relocated
- Existing - to be removed for refurb
- Existing - to be removed for scrap
- Temporary equipment
- Services
- New Refrigeration Pack
- New Gas Cooler
- New Vaillant Heat Pumps
- New Buffer vessel
- New CLADE ICP Pack

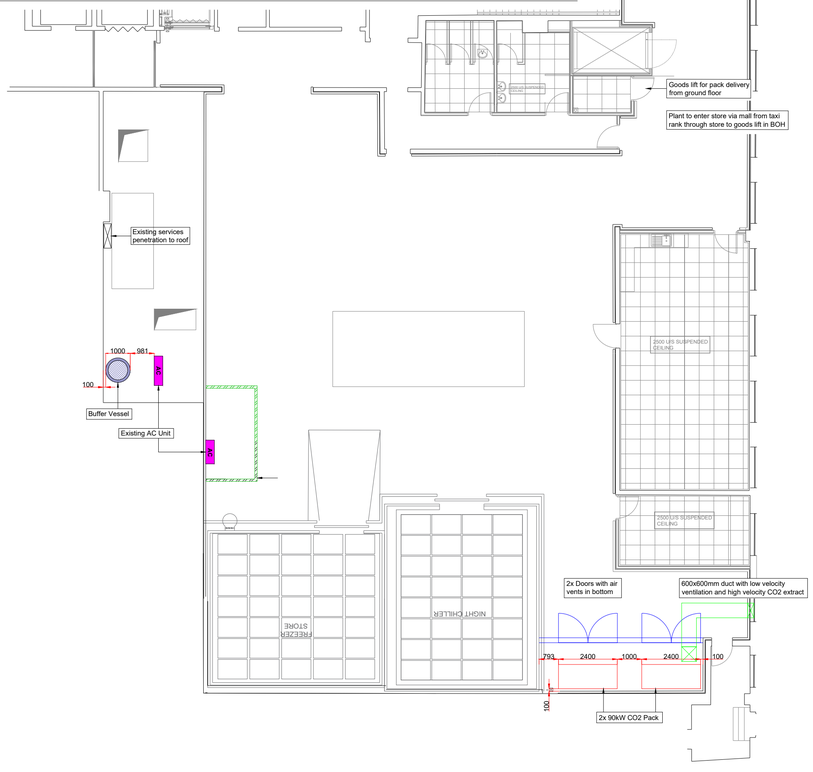
Builders Work Key:

- Existing - to remain in situ
- Existing - to be removed
- Temporary
- New
- New concrete base

PROPOSED PLANT LAYOUT- Roof



PROPOSED PLANT LAYOUT- Warehouse



Sacrificial coating (Blygold) recommended- ☑ (NO)

Client
Aldi Stores Ltd.

Project Title
ALDI - ARNDALE CENTRE

Project Address
Manchester Arndale, Manchester United Kingdom

Drawing Title
PROPOSED PLANT LAYOUT - CO2 High Side

Job No.	Originator	Zone	Level	Type	Role
79-E0647	WAVE	XX	00	M2	N

System Classification	Drawing No.	Suitability	Revision
En_60_60_00	-0001	A5	P05

Drawn	Checked	Date	Scale	Size
NK	GE	15-09-2025	1:125	A1

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