

PLAN VIEW B.O.H. STORE - AREA "Z"

1800

600

5000 EXTRACT DUCT TO ROUTE DOWN TO BASEMENT BELOW (FULL DETAILS TBC)

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FIRE DAMPERS IN A WALL

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DISCHARGE PLENUM

560ø

600

2400

1600

300

DISCHARGE ATTENUATION

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75mm DEEP ACOUSTIC BLANKING PANELS 200mm (W)

AIR FLOW

A

D

INDICATIVE SECTION A-A

- CONCRETE SLAB
- 900mm ACOUSTIC CEILING
- RECTANGULAR SILENCER
1600(ø750)x(2400)
- LOW PRESSURE LOSS
75mm DEEP WEATHER
LOUVER
- SUITABLE SUPPORTING HANGERS
- TRANSFORMATION
- RAISED SCREED FLOOR INCLUSIVE OF REBENT ACOUSTIC MATTING

Dimensions:

- Overall width: 3875
- Left side depth: 4375
- Rectangular silencer height: 2400
- Rectangular silencer width: 1600
- Rectangular silencer offset from left wall: 560
- Rectangular silencer offset from right wall: 600
- Low pressure loss louver height: 75
- Low pressure loss louver offset from right wall: 400
- Concrete slab thickness: 175
- Raised screed floor thickness: 175
- Other vertical dimensions: 45, 800, 2500, 2500

INDICATIVE ELEVATION VIEW ON ARROW "D"

Architectural drawing showing an indicative elevation view on arrow "D". The drawing includes dimensions and material callouts:

- Overall width: 1760
- Overall height: 1815
- Section width: 1790
- Section height: 900
- Material callouts: OAK EXTRACT, 1200x2400, 1200x2400
- Architectural details: Windows, doors, and a fire alarm pull station.

D-B2-00-ED04

D-B2-00-ED03

LOCATION PLANS N.T.S.

PRINCESS STREET

WHITWORTH ST

GROUND LEVEL

5400 sqm 2550 sq ft

C

AREA "Z"

AREA "Y"

AREA "X"

BASEMENT CAR PARK LEVEL

SECTION VIEW C-C

PLAN VIEW BASEMENT CAR PARK LEVEL - AREA "X"

This plan view diagram illustrates the layout of the basement car park level, specifically Area "X". The diagram shows the overall dimensions of the area, including a total width of 2000mm and a total length of 2000mm. Key features include:

- Plant Area:** A designated area for plant equipment, containing two air conditioning units labeled ACU-1 and ACU-2. These units are positioned within a 2400mm x 2400mm footprint. The units are separated by a 500mm gap, and each has a 500mm x 500mm access hatch. The units are also connected to a 500mm x 500mm discharge plenum.
- Access Hatches:** Two 500mm x 500mm access hatches are shown, one for each ACU unit. They are located within a 2400mm x 2400mm area.
- Discharge Plenums:** Two discharge plenums are shown, one for each ACU unit. They are located within a 2400mm x 2400mm area.
- Dimensions:** The overall dimensions of the area are 2000mm by 2000mm. The plant area is 2400mm by 2400mm. The access hatches are 500mm by 500mm. The discharge plenums are 500mm by 500mm.
- Orientation:** The diagram includes a north arrow pointing towards the top right, labeled "N".
- Other Features:** A "LIGHT FIXTURES AREA" is indicated by a hatched pattern. A "2150 CO2 AND R32 EXTRACT" unit is shown with a 500mm x 500mm access hatch. A "500mm x 500mm ACCESS HATCH" is also shown. A "500mm x 500mm DISCHARGE PLENUM" is also shown.

GAS COOLER SELECTION																		
Reference	Asset Number	Model	Manufacturer	New / Existing	Refrigerant	Gas Outlet / Ambient Temperature (°C)	TD (K)	THR (kW)	Current @ Design (per fan)	Full Load Current (per fan)	Supply Voltage & Phase	Run speed signal voltage (0-10v) (Day / Night)	ROM Setback Setting (Day / Night)	Weight (kg)	Dimensions (LxWxH) (mm)	Pipe / Fin Material	Pipe Sizes (In / Out)	dB(A) @ 10m Day / Night
GC1	TBC	GE-M102G3-HV-083B-AM	KELVION	New	R744	37 / 35	2	63.20	4.2	5.9	415V/3ph/50hz	7.8	22 / 22	414	2815 X 1130 X 1683	CU/AM	28.5mm each	51dB(A) Per Fan Set

* FBOU (Fed by outdoor unit)

PLEASE NOTE THAT ALL CDM DESIGN / WORKS BY MAIN CONTRACTOR

A	SMOOTH AND LEVEL BASE CONCRETE PLINTH REQUIRED FOR REFRIGERATION PLANT AND AC OUTDOOR UNITS - TO BE PROVIDED BY THE BUILDER.
B	AC UNIT - REQUIRED TO BE MOUNTED ON SUITABLE ANTI-VIBRATION PAD.
C	COMPRESSOR PACK - TO BE MOUNTED ON SUITABLE ANTI-VIBRATION MOUNT.
D	GAS COOLER - TO BE MOUNTED ON SUITABLE ANTI-VIBRATION PAD.
E	MINIMUM PLANT AREA FENCE TO BE 2.4M HIGH.
F	GAS COOLERS ARE SUPPLIED WITH ISOLATOR & CONTROL PANEL ON THE PIPE END, UNLESS OTHERWISE STATED.

PRELIMINARY				Site Address: Co-op Manchester, New Square Princess Street, Manchester, M1 3NY	
				Drawing Title: PROPOSED REFRIGERATION PLANT LAYOUT BASEMENT & ROOF AREA	
				Consultant: -	
				Design Engineer: D. Barnes	
				Date: 25.06.21	Drawn By: DD
01	Corrections made to format. No other revisions made	BSD	02.12.21	Checked By: D. Barnes	Drawing No: CR3 (A0)
00	Preliminary Issue.	DD	25.06.21	Revision: 01	Scale: Various @ A0
Revision	Details	Drawn	Date	Contract No: QRC4348	Derived File: P1F4M0