

Freezer -2000X
1600X2100mm

Chiller - 3500X
1600X2100mm

Kitchen extract fan unit Helios
560GBD EC installed using flexible
ductwork connections and anti
vibration rubber mounts and isolators
to eliminate vibration levels and
Attenuator installed as per noise
impact assessment prepared by Braidon
acoustics

Very high level Odour filtration unit as per odour assessment report OD76894, the
filtration system consist of, 2 No disposable pre-filter G4, highly efficiently in
removing filtering oil and grease particles then, 2 No ESP Ryd air 5000B built in
with UV zone lighting system installed in double pass formation to eliminate cooking
smoke, grease and odour, followed by Air clean extra duty carbon filter unit &
Casing, carbon filters use panels of activated carbon to remove the malodorous
gases within the commercial kitchen extract duct through the process of chemical
adsorption, to give dwell time of 0.4sec

Kitchen fresh air fan unit Helios
450GBD EC installed using flexible
ductwork connections and anti
vibration rubber mounts and
isolators to eliminate vibration
levels and Attenuator installed as
per noise impact assessment
prepared by Braidon acoustics

Kitchen supply Ghd ec 450 1.4 m3/
sec so 2.2 m/sec velocity

Kitchen fresh air inlet high level at
mezzanine level via existing
weather/louver grills

AHU air inlet point via existing
weather/louver grills

1900 m3/hour thru a 2100X610
Louvre with 50% free area works
out to 0.8 m/sec

AHU extraction
point via existing
weather/louver
louver grills

1900 m3/hour thru a
2100X610 Louvre with
50% free area works out
to 0.8 m/sec

AHU unit Helios RIS 1900PE EKO
310/120 1750X1955X300mm, 3
phase

Kitchen extract ductwork
system discharges high
level at mezzanine
level via existing weather
louver grills

Kitchen extract Ghd ec
560 2.6 m/sec so 2.2
m/sec velocity

Toilet extract 200
espada 0.18 m3/sec so
0.3 m/sec velocity

Kitchen extract ductwork rise high
level to be connected to the
existing weather/louver grill

AC 1 Fujitsu 12.5kW AC
ARXG45KH7B,
400HX1050WX500Dmm

Air diffuser grill to provide
85% air replacement back
into the kitchen area

200mm diameter Ac
ductwork system

FLL
34:467

RAMP 1

PLATFORM
LIFT

Cold room / AC Refrigerant
pipe work rise above

200mm toilet extract
ductwork system rise to
first floor

200mm toilet extract valve
Under cut doors 15mm to
allow fresh air circulation

Flakt woods ESPADA toilet
extract fan unit installed using
flexible ductwork connections
and anti vibration rubber
mounts and isolators to
eliminate vibration levels and
Attenuator installed as per
noise impact assessment
prepared by Braidon acoustics

FLL
34:800



Note:	
Project Title:	Boo Manchester - Proposed HVAC Route - REV D
Drawing Number:	Boo Manchester - Ground Floor Plan - Proposed HVAC System - REV D
Scale:	1:50 @ A2
Date:	17/07/2022
FAN RESCUE Commercial Kitchen and HVAC System Specialists Ability House, Unit 129, 121 Brooker Road, Waltham Abbey EN9 1JH	