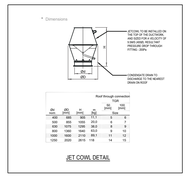
AIR SOURCE HEAT PUMP UNIT SCHEDULE			
CONDENSER UNIT REF			CU00/001
ASHP MODEL			S-ASX-NT 70
COP			3.33
UNIT RATING			70 kW
REFRIGERANT GAS			R290
ELECTRICAL DETAILS	POWER SUPPLY	(Ø, Hz, V)	3, 50, 380-415
	RUNNING CURRENT	(A)	N/A
	STARTING CURRENT	(A)	N/A
	FUSE RATING	(A)	70A
UNIT DIMENSIONS	HEIGHT	(mm)	1830
	WIDTH	(mm)	930
	DEPTH	(mm)	2480
WEIGHT		(kg)	641
SOUND		(dBa)	77
PIPEWORK CONNS		INLET	2"M
		OUTLET	2"M
WATER PRESSURE DROP		(kPa)	26
OUTLET WATER TEMP (Flow/Return)		(°C)	25°C IN CHW TOP UP MODE 45°C IF IN BACK UP HEATING MODE 60°C IF IN DHW MODE.
REF. PRECHARGED TO		(kg)	TBC
NOTES			TO BE INSTALLED COMPLETE WITH ALL MANUFACTURERS EQUIPMENT.

EXTRACT FAN SCHEDULE		
Project:	Nuneaton	
Schedule No:	G0012-JPA-ZZ-00-SC-M-57101	
Revision:	P2	
Date:	25.04.25	
REFERENCE	**EF00/001 - 010 & EF01/001 - 014**	**EF00/011**
SYSTEM	CEILING MOUNTED EXTRACT FAN	CEILING MOUNTED EXTRACT FAN
LOCATION	ALL BEDROOMS	GROUND FLOOR WC
DIMENSIONS	391X391X248	391X391X248
FAN TYPE	Ceiling Void	Ceiling Void
INVERTER	Yes	Yes
SPARE MOTORS	NO	NO
EXTRACT VOLUME	8 l/s	84 l/s
STATIC PRESSURE	30Pa	70Pa
PART L2 SFP	0.17 w/l/s	0.17 w/l/s
FIRE RATED	NO	NO
ATTENUATORS	Yes, Supplied by others	Yes, Supplied by others
NOISE	37dBA @ 3m	37dBA @ 3m
CONTROLS	Continous operation with 3 v ariable speeds	Continous operation with 3 v ariable speeds
WEIGHT	UNDER 10kg	UNDER 20kg
NOTES:		
1) All selections are to be selected with a minimum margin of 5% on the air v olume and 15% on the external static pressure.		

VRV CONDENSER UNIT SCHEDULE - DAIKIN		
CONDENSER UNIT REF		CU01/01
MODEL		RKYSQ12TY1
NOMINAL COOLING - (kW)		33.50
NOMINAL HEATING - (kW)		33.50
REFRIGERANT GAS		R410a
REFRIGERANT CHARGE (FACTORY) (kg)		-
ELEC DETAILS	POWER SUPPLY - (Ø, Hz, V)	3, 50, 400
	RUNNING CURRENT - (A)	13.4
	STARTING CURRENT - (A)	-4
	FUSE RATING - (A)	32
SOUND PRESSURE - (dBa)		57
UNIT DIMS	HEIGHT - (mm)	1615
	WIDTH - (mm)	940
	DEPTH - (mm)	460
WEIGHT - (kg)		180
AIR FLOW - (m³/s)		3
PIPE CONNS.	LIQUID	1/2
	GAS	1 1/8
	DISCHARGE	-
	OIL EQUALISING	-



1) ACCESS DOORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE BELOW SCHEDULE

IN-LINE EQUIPMENT	DUCTWORK CONTRACTOR	SPECIALIST CLEANING CONTRACTOR	
CIRCULAR CONTROL DAMPERS ≥ 100	UP-STREAM PANEL	DOWN-STREAM PANEL	
RECTANGULAR CONTROL DAMPERS ≥ 1000X100	UP-STREAM PANEL	DOWN-STREAM PANEL	
FIRE DAMPERS	TO SUIT DAMPER MAINTENANCE	OPPOSITE SIDE	
HEATING/COOLING/RE-CLAIM COILS	PANEL ON BOTH SIDES		
ATTENUATORS (RECTANGULAR)	UP-STREAM PANEL	DOWN-STREAM PANEL	
ATTENUATORS (CIRCULAR)	UP-STREAM PANEL	DOWN-STREAM PANEL	
FILTER SECTIONS	UP-STREAM PANEL	DOWN-STREAM PANEL	
AIR TUNING VANES	UP-STREAM PANEL	DOWN-STREAM PANEL	
CHANGE OF DIRECTION		ONE PANEL TO SUIT	
IN-DUCT FANS/DEVICES	UP-STREAM PANEL	DOWN-STREAM PANEL	
INLET/EXHAUST LOUVRE	ONE PANEL TO SUIT		
INTERMEDIATE CLEANING PANELS IN FIRE RATED DUCT		TO SUIT FREQUENCY SPECIFIED IN DW/172	
INTERMEDIATE CLEANING PANELS IN STANDARD DUCTWORK		EVERY 10M IN HORIZONTAL DUCTWORK	
VERTICAL DUCTWORK	ONE PANEL TOP AND BOTTOM	AT EACH ACCESSIBLE FLOOR	
CIRCULAR PRESSED BENDS	NOT REQUIRED		
CIRCULAR SEGMENTED BENDS	UP-STREAM PANEL		

IN A NEW DUCTWORK SYSTEM THESE ARE THE ONLY ACCESS PANELS THAT A DUCTWORK CONTRACTOR WILL PROVIDE UNLESS THERE IS A CLEAR INDICATION BY THE CLIENT DESIGNER/SPECIFIER AS TO THEIR REQUIREMENTS FOR ACCESS TO FACILITATE CLEANING/SURVEY/INSPECTION OR CLEANING ACTIVITY.

SIZE OF ACCESS DOORS

14) TABLE 4: RECOMMENDED SIZE OF OPENINGS (RECTANGULAR AND FLAT OVAL)

DUCT SIZE UP TO LONGEST SIDE	MAJOR AXIS	RECOMMENDED DIMENSION OF OPENINGS
200MM	300MM	150MM
300MM	300MM	200MM
400MM	500MM	300MM
>500MM	450MM	450MM

TABLE 5: RECOMMENDED SIZE OF OPENINGS (CIRCULAR)

DUCT DIAMETER UP	RECOMMENDED DIMENSION OF OPENINGS	
310MM	250MM	150MM
450MM	400MM	300MM
550MM	400MM	300MM
≥600MM	500MM	400MM

15) KITCHEN DUCTWORK IS TO BE INSTALLED IN COMPLIANCE WITH DW/172 SPECIFICATION FOR KITCHEN VENTILATION SYSTEMS
16) ALL PLASTIC DUCTWORK IS TO BE INSTALLED IN ACCORDANCE WITH DW/154 SPECIFICATION FOR PLASTICS DUCTWORK
17) ALL GLASS FIBRE DUCTWORK IS TO BE INSTALLED IN ACCORDANCE WITH DW/191 GUIDE TO GOOD PRACTICE - GLASS FIBRE DUCTWORK
18) ALL DIMENSIONS ARE IN MILLIMETRES
19) ALL LEVELS ARE IN METRES ABOVE ORDINANCE DATUM

ABBREVIATIONS

GS:	GENERAL SUPPLY DUCT
GE:	GENERAL EXTRACT DUCT
DE:	DIRTY EXTRACT DUCT
SE:	SMOKE EXTRACT DUCT
KE:	KITCHEN EXTRACT DUCT
KS:	KITCHEN SUPPLY DUCT
FAI:	FRESH AIR IN DUCT
EXH:	EXHAUST DUCT
FE:	FUME EXTRACT DUCT
BF:	BOILER FLUE
DTB:	DOWN TO BELOW
DFA:	DOWN FROM ABOVE
RFB:	RISE FROM BELOW
RTA:	RISE TO ABOVE
DTLL:	DOWN TO LOW LEVEL
SD:	SUPPLY DIFFUSER
EG:	EXTRACT GRILLE
RG:	RETURN GRILLE
ATT:	ATTENUATOR
CTA:	CROSS TALK ATTENUATOR
AP:	ACCESS PANEL
VCD:	VOLUME CONTROL DAMPER
SBD:	SINGLE BLADE DAMPER
FD:	FIRE DAMPER
FD-C:	FIRE DAMPER COMBINED VCD
HL:	HIGH LEVEL
LL:	LOW LEVEL
IL:	INVERT LEVEL
CL:	CENTRELINE OF DUCT

© PROTECTED BY UK COPYRIGHT LAW

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. ALL FIRE DAMPERS REQUIRE SUITABLE ACCESS. ACCESS DOORS IN PLASTERBOARD CEILING/WALLS ARE TO BE PROVIDED BY THE MAIN CONTRACTOR WHERE DUCTWORK ACCESS DOORS ARE SHOWN.
3. ALL FIRE DAMPERS OPENING ARE TO BE TRIMMED BY WALLING TO ALLOW FIXING INTO PROPRIETARY STUD WORK IN ACCORDANCE WITH THE MANUFACTURERS DETAILS.
4. SUITABLE SPACE IS TO BE LEFT ALONG DUCTWORK TO FACILITATE CORRECT BEFORE & AFTER SPACING's FOR TEST POINTS.
5. COMMISSIONING ENGINEERS ARE TO INCLUDE FOR INSERTING TEST POINTS & ALSO PROVIDING & INSTALLING TEST POINT CAPS.
6. ALL DUCTWORK TO BE TESTED IN COMPLIANCE WITH THE REQUIREMENTS FOR THE PROJECT SPECIFIC EPC/PART L COMPLIANCE CHECK LIST.
7. THE FOLLOWING FINISHES ARE TO BE APPLIED TO THERMAL INSULATION:

- CEILING VOID - FOIL FACE FINISH
- PLANT ROOMS - VENTURE CLAD INTERNAL & EXTERNAL
- RISERS - FOIL FACE FINISH
- VRF SECONDARY/CONDITIONED AIR DUCTWORK - FOIL FACE FINISH

8. THE DUCTWORK CONTRACTOR IS DEEMED TO OR INCLUDED FOR ALL NECESSARY OFFSETS AND BENDS TO PROVIDE A COMPLETE INSTALLATION.
9. ALL METAL DUCTWORK IS TO BE INSTALLED IN ACCORDANCE WITH DW/144 SPECIFICATION FOR SHEET METAL DUCTWORK - LOW, MEDIUM & HIGH PRESSURE/VELOCITY AIR SYSTEMS.
10. ALL DUCTWORK IS TO BE INSTALLED AN INTERMEDIATE PROTECTION, DELIVERY AND INSTALLATION STANDARD AS SET OUT WITHIN TR19.
11. ALL DIMENSIONS ARE IN MILLIMETRES.
12. DUCTWORK WITHIN RISERS AND FALLOW AREAS SHALL BE INSULATED. WHERE DUCTWORK IS EXPOSED IN AN OCCUPIED ROOM IT SHALL NOT BE INSULATED.
13. ALL DUCTWORK FINAL CONNECTIONS SHALL BE INSTALLED IN FLEXIBLE DUCTWORK WITH A MAXIMUM DISTANCE OF 600mm.
14. THE CONTRACTOR SHALL ALLOW FOR ALL ACCESS HATCHES IN DUCTWORK TO FACILITATE CLEANING AND ACCESS FIRE DAMPERS. AS A MINIMUM THIS SHOULD BE BEFORE AND AFTER EACH DAMPER, 1 No. FOR EACH BEND, AND 1No.EVERY 10m OF STRAIGHT RUNS.
15. ALL MFSD'S TO BE CONTROLLED VIA CENTRAL PANEL LOCATED IN PLANTROOM (FINAL POSITION TBC) AND MONITORED BY BMS.
16. ALL FINAL BRANCHES TO HAVE VCDS IN ORDER TO COMMISSION APPROPRIATELY. (UNLESS AIR VALVE TYPE USED FOR FINAL COMMISSIONING / FINE BALANCING)

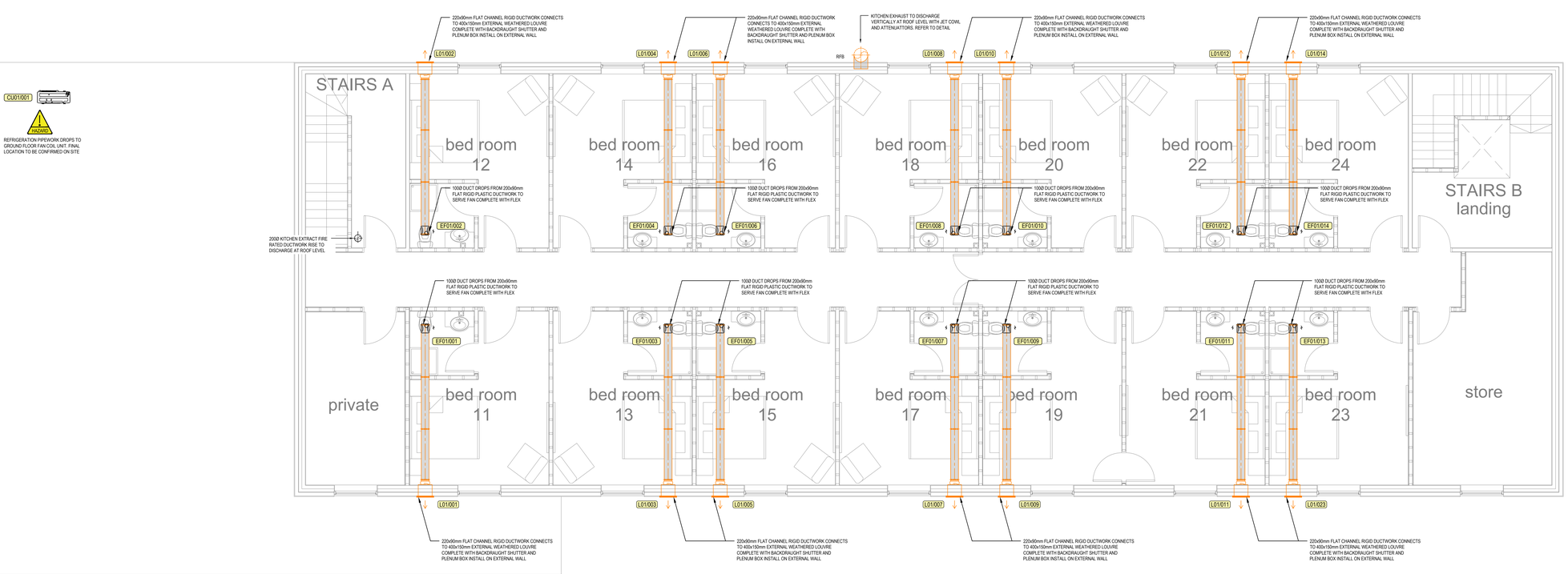
LEGEND

- SINGLE LEAF VOLUME CONTROL DAMPER
- MULTI-LEAF VOLUME CONTROL DAMPER
- FD — FIRE DAMPER
- ATTENUATOR
- FLEXIBLE CONNECTION
- LINEAR GRILLE
- EXTRACT BELLMOUTH
- EXTRACT DUCT
- SUPPLY DUCT
- XX/000 — REFERENCE

ACRONYMS

RFB	RISE FROM BELOW
RTHL	RISE TO HIGH LEVEL
RTA	RISE TO ABOVE
DTB	DROP TO BELOW
DTLL	DROP TO LOW LEVEL
DFA	DROP FROM ABOVE

GREY SERVICES DENOTES EXISTING



1 FIRST FLOOR VENTILATION SERVICES LAYOUT
1:50

REV	DESCRIPTION	DES	CHD	DATE
P02	KITCHEN EXTRACT AMENDED TO SUIT NEW KITCHEN LAYOUT	J.L.W.	J.J.	25.04.24
P01	INITIAL ISSUE FOR COMMENT/APPROVAL	B.C.	J.L.W.	16.01.25

MEP CONSULTANTS | BIM | SUSTAINABILITY
LONDON - EDINBURGH - NEWCASTLE
e: admin@jpameconsultants.co.uk | w: www.jpameconsultants.co.uk

CLIENT

NEPTUNE PLANNING

PROJECT

NUNEATON HOTEL, 291 WATLING STREET, NUNEATON, CV11 6BQ

SCALE	ORIGINAL PAPER SIZE	DATE
1:50	A0	Jan-25
DRAWN: B.C.	DESIGNED: B.C.	CHECKED: J.L.W.

CONTRACT: G0012-JPA-ZZ-01-DR-M-57101

DRAWING NUMBER

TITLE: First Floor Ventilation Services Layout

REVISION: P02