

VRF System A - First & Second Floors

REF	INDOOR UNIT		DUTY	DUTY	Wt	ELECTRIC	AL		AIR FLOW 1/sec	STATIC (Pa)	DIMS	(mm)
	MODEL	SIZE	Uk Cooling	Uk Heating	kg	Phase	FUSE	RC	Lo-Hi	Lo-Hi	W	D	Н
AC 2/1	FXDQ 32 P7	32	2.5 kW	2.6 kW	23	1ph 240V	5A	0.8 A	107-133	30-10	700	620	20
AC 2/2	FXDQ 32 P7	32	2.5 kW	2.6 kW	23	1ph 240V	5A	0.8 A	107-133	30-10	700	620	20
AC 2/3	FXSQ 80 P	80	6.1 kW	7.8 kW	35	1ph 240V	5A	1.3	333-417	40-100	1000	700	30
AC 2/4	FXSQ 80 P	80	6.1 kW	7.8 kW	35	1ph 240V	5A	1.3	333-417	40-100	1000	700	30

Ventilation HRU Plant Schedule

REF	HEAT RECOVERY UNIT		DUCT	Wt	ELECTRICAL			AIR FLOW I/sec		DIMS (mm)
	MODEL	SIZE	mm	kg	Phase FUSE	SC	RC(Max)	Lo-Med-Hi	Lo-Med-Hi	W D H
HRU 2/1	VAM 650 FA	650	200	48	1ph 240V 15A	4 A	2.0 A	138 - 180 - 180	25 - 39 - 93	1004 868 364
HRU 2/2	VAM 800 FA	800	250	48	1ph 240V 15A	4 A	3.0 A	186 – 222 – 222	249-98-137	1004 868 364
HRU 2/3	VAM 800 FA	800	250	48	1ph 240V 15A	4 A	3.0 A	186 - 222 - 222	249-98-137	1004 868 364

AC Condenser Plant Schedule Supplied / INSTALLED WITH PIPEWORK TWINNING KIT

KEF	UU I DUUK UNI I	FLEC	IKILAI	LUAI	A (AMPS)	יווט ן	12 (WW)		WEIGHT	ZOOND	AIRFLUW	LOP/EEK	1
	MODEL	PH	SC	RC	FUSE	L	D	Ht	kg	dBA	l/s		
U A	REY Q 16 P8	3ph	4.0	21.6	40	1300	680	1680	339	62	3000/3000	2.8/3.9	
SERVE	ERVES FIRST AND SECOND FLOORS												

BSQ Connection Box Schedule

					ELECTRICA	L DATA		, DIMS (mm)
REF	LOCATION	MODEL	WT	PHASE	POWER	RC	FUSE	W D H
-	ONE PER FAN COIL UNIT	BSVQ 100 P8B	14 kg	1 ph	240V	0.1 A	5A	388 x 207 x 326

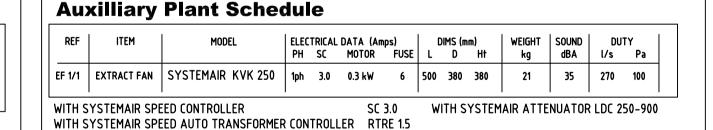
Local Controls	EACH VRF UNIT TO HAVE A WALL MOUNTED CONTROLLER AS: DAIKIN REF						
Central Controller	SEE DAIKIN QUOTE TOUCH SCREEN CENTRAL CONTROLLER SEE DAIKIN QUOTE						

VRF System. Specification Notes Coordination N 1.0 SUPPLY, INSTALL, COMMISSION AND SET TO WORK, 2 No. DAIKIN (UK) Ltd, SIMULTANEOUS HEATING & COOLING, HEAT RECOVERY, R 410 📗 🖠 A REFRIGERANT, INVERTER DRIVEN, HIGH CoP, AIR CONDITIONING SYSTEMS. 2.0 IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY REFRIGERANT PIPE SIZES WITH SUPPLIER PRIOR TO PROCUREMENT 3.0 CONTRACTOR TO DESIGN AND INSTALL CONDENSATE DRAINAGE SYSTEM – AS INDICATED ON THIS DRAWING SOME SERVICES **ROUTES ARE WORST CASE** 4.0 EACH AC UNIT TO BE SUPPLIED AND INSTALLED COMPLETE WITH CONDENSATE PUMP SHORTER ROUTES WILL BE CONSIDERED DURING THE WORKING DWG APPROVAL PROCESS 5.0 ALL DX PIPEWORK TO BE RUN AND SUPPORTED ON TRAY WORK 6.0 INSTALLED BY APPROVED MITSUBISHI INSTALLER SERVICE CROSS OVERS ARE TO BE AVOIDED. SERVICE ZONES TO BE USED NO PLANT OR SERVICES SHALL PASS OVER LIGHT FITTINGS EXCEPT WHERE UNAVOIDABLE 7.0 PROVIDE 5 YEAR WARRANTY **ADDITIONAL NOTES** 1.0 DO NOT INSTALL AC UNITS OR VENTILATION UNITS ABOVE LIGHT FITTINGS

Wiring & Controls

- 1.00 WALL MOUNTED CONTROLLERS ARE REQUIRED FOR ALL INDOOR UNITS. ALL LOCAL CONTROL UNITS SHALL ALSO BE CONTROLLED CENTRALLY FROM CENTRAL CONTROLLER
- 2.00 SUPPLY, INSTALL, TEST AND COMMISSION ONE DAIKIN Ltd CENTRAL CONTROLLER, AS SPECIFIED. LOCATION TO BE ADVISED.
- 3.00 THE MECHANICAL CONTRACTOR SHALL ALLOW FOR SUPPLY AND INSTALL OF ALL AC SYSTEMS CONTROLS WIRING AND INTERCONNECTING WIRING FROM EXTERNAL UNIT TO INDOOR UNITS, AND WIRING TO/FROM CONTROLLERS AND AG150
- 4.00 POWER WIRING TO EXTERNAL CONDENSER AND POWER SUPPLIES (1 x 13 A FSU PER AC UNIT) AND (1 x 13 A FSU PER BSQ BOX) INDOOR AC UNITS AND BC BOXES SHALL BE BY THE APPOINTED ELECTRICAL CONTRACTOR

SECOND FLOOR



	Abi	previations
	OBD	OPPOSED BLADE DAMPER (MULTI-LEAF TYPE)
	FD	FIRE DAMPER (2 Hr Min) FUSIBLE LINK SHUTTER T

WITH INSTALLATION FRAME **DUCT ACCESS PANEL** NON RETURN DAMPER DUCT SOUND ATTENUATOR CROSS TALK ATTENUATOR

TO ABOVE TB TO BELOW

FROM ABOVE FROM BELOW TEG/KEG EXTRACT VALVE SUPPLY AIR RETURN AIR

FRESH AIR IN

EXHAUST AIR OUT

Smoke Detector

Luminaire

EX

S

(L)

P

C

Legend SUPPLY DIFFUSER. PERFORATED PLATE SWIRL TYPE COMPLETE WITH BACK PLENUM, BOX AND SPIGOT CONECTION

RETURN AIR DIFFUSER. PERFORATED PLATE TYPE TO MATCH SUPPLY DIFFUSER COMPLETE WITH BACK PLENUM, BOX AND SPIGOT CONECTION

SUPPLY DIFFUSER with PLENUM BOX. LINEAR 2 SLOT TYPE

CEILING RECESSED SIMULTANEOUS HEATING & COOLING VRF AIR

SIMULTANEOUS HEATING AND COOLING SYSTEM PIPEWORK BSQ

CONNECTION BOX WITHIN CEILING VOID. WITH 13 Amp POWER SUPPLY

DX PIPEWORK (GAS & LIQUID LINES) ON CONTINUOUS SUPPORT TRAY

CONDITIONING UNIT, 4 WAY BLOW, WITH CONDENSATE PUMP.

MAX LENGTH 900mm. NO BENDS GREATER THAN 30 degrees

VRF System and

Ventilation System

SUPPLY OR EXTRACT AIR VALVE.

FLEXIBLE DUCT CONNECTION

WALL MOUNTED CONTROLLER

SG2

LINEAR 2 SLOT, 600mm Long AS TROX MODEL: -VSD35-BF-2-Z0-A02/600/BF/0/P3 RAL 9010/20% WH PLENUM BOX 500mm Long AS TROX MODEL: AKV - VSD35 - 2 - BF - D/600x198x297/0/0

LINEAR SLOT SUPPLY DIFFUSER AND PLENUM BOX

SUPPLY OR EXTRACT ASDJUSTABLE VOLUME AIR VALVE AS TROX MODEL: SUPPLY: Z - LSV / 200 / G1 WHITE
AS TROX MODEL: EXTRACT: LSV / 200 / G1 WHITE

Attenuator Legend / Schedule

Diffuser / Grille Schedule

SUPPLY DIFFUSER. PERFORATED PLATE SWIRL TYPE

WITH BACK PLENUM BOX. DIFFUSER AS TROX MODEL DCS - P - V - AK / 593x315 / 0 / P3 RAL 9010: 20%

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SUPPLY DIFFUSER. PERFORATED PLATE SWIRL TYPE

WITH BACK PLENUM BOX. DIFFUSER AS TROX MODEL

DCS - P - V - AK / 593x315 / 0 / P3 RAL 9010: 20%

RETURN AIR DIFFUSER. PERFORATED PLATE TYPE

WITH BACK PLENUM BOX. DIFFUSER AS TROX MODEL: AP - L - A - AK / 595x595 / P3 RAL 9010: 20%

DCS - P - V - AK / 593x315 / 0 / P3 RAL 9010: 20%



CIRCULAR SILENCER 500mm LONG, 200mm DIAMETER (NON-PODDED) AS NOICO Ltd MODEL (refer to Noico Ltd) CROSS TALK CIRCULAR SILENCER 350mm LONG,

LINE SIZE DIAMETER AS NOICO Ltd MODEL (Refer to Noico Ltd)

Second Floor Scale 1:40 @ A1

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General Notes

- 1.00 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATION,
- DESIGN OF BRACKETS, SUPPORT WORK AND BUILDERSWORK 2.00 INSTALL AND CERTIFY THE WORKS IN ACCORDANCE WITH INDUSTRY STANDARD HEALTH & SAFETY & BUILDING CONTROL REQUIREMENTS
- 3.00 THE MECHANICAL CONTRACTOR SHALL SET TO WORK THE WHOLE OF THE INSTALLATIONS, FULLY COMMISSION THE SYSTEMS, IN ACCORDANCE WITH ALL INDUSTRY STANDARDS, BUILDING CONTROL, CLIENT REQUIREMENTS AND GOOD PRACTICE
- 4.00 THE CONTRACTOR SHALL SUBMIT RISK ASSESSMENTS AND METHOD STATEMENTS TO PROJECT MANAGER FOR ALL ELEMENTS OF THE WORKS PRIOR TO WORKS TAKING PLACE
- .00 THE CONTRACTOR SHALL SUBMIT DIMENSIONED WORKING DRAWINGS & TECHNICAL SUBMISSIONS FOR APPROVAL TO THE PROJECT MANAGER FOR ALL ELEMENTS OF THE WORKS PRIOR TO PROCUREMENT AND INSTALLATION OF THE WORKS

Contractors' Coordination Responsibility THE INFORMATION ON THIS DRAWING IS FOR ACE LEVEL ABRIDGED DESIGN DUTY PURPOSES ONLY.

THE CONTRACTOR SHALL PREPARE & SUBMIT DIMENSIONED & FULLY COORDINATED WORKING INSTALLATION DRAWINGS FOR APPROVAL PRIOR TO PROCUREMENT.

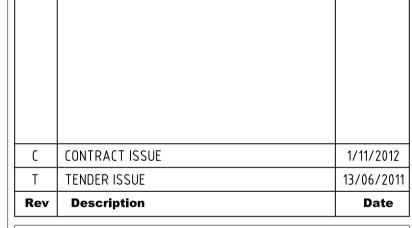
THE CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION & SHALL COORDINATE MECHANICAL, ELECTRICAL. STRUCTURAL, REFLECTED CEILING PLAN & ARCHITECTURAL ELEMENTS OF THE PROJECT.

ALL SERVICES ON WORKING DRAWINGS SHALL ALSO HAVE LEVEL INFORMATION DETERMINED BY CONTRACTOR

Important Specification Note

READ ALL NOTES, SCHEDULES & INSTALLATION INSTRUCTIONS ON THIS DRAWING.

NOTES, SCHEDULES AND INSTRUCTIONS FORM PART OF THE SPECIFICATION FOR THE WORKS, AND MAY NOT BE REPEATED IN THE WRITTEN SPECIFICATION.



THE CHARTERED INSTITUTION OF WATER AND CIWEM **ENVIRONMENTAL MANAGEMENT**

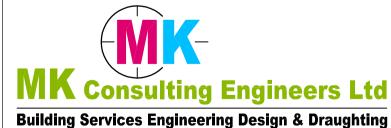
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Drawing Title MECHANICAL SERVICES SECOND FLOOR PLAN VRF SYSTEM AND VENTILATION LAYOUT

Scale 1:40 @ A1 Drawn AK Checked AK

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Revision

Drawing Status

CONTRACT ISSUE