

V.U.T THIRD FLOOR HVAC LAYOUT

SCALE 1:100

THIRD FLOOR PLAN
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SAMSUNG DVM EQUIPMENT SCHEDULE:

ITEM:	MAKE / MODEL	Qty.	COOLING KW	AIR QTY. NOMINAL	PIPING SIZES:			POWER REQUIRMENTS:				ISOLATOR POSITION	WEIGHT Kg
					Liquid	Gas	Pipe lth	Volts	Kw	RUN amps	C.B SIZE		
CASSETTES:													
AC-1	AM056FN4DEH/EU	2	5.60	250	1/4	1/2	N/A	220 V	0.032	0.22	A, CURVE 1	INDOOR	15.5 Kg
AC-4	AM0112FN4DEH/EU	4	11.20	433	3/8	5/8	N/A	220 V	0.078	0.55	A, CURVE 1	INDOOR	17 Kg
AC-8	AM028FNDEH/EU	15	2.80	166	1/4	1/2	N/A	220 V	0.018	0.17	A, CURVE 1	INDOOR	12 Kg
AC-10	AM045FNDEH/EU	5	4.50	191	1/4	1/2	N/A	220 V	0.023	0.22	A, CURVE 1	INDOOR	12 Kg
HIDEAWAYS:													
AC-11	AM140FNDEH/EU	1	14.0	616	3/8	5/8	N/A	220 V	0.410	1.86	A, CURVE 1	INDOOR	52 Kg

LEGEND	
	WIRED REMOTE CONTROLLER
	CENTRALIZED CONTROLLER
	REFRIGERANT SCHEMATICAL PIPEWORK LAYOUT
	VRF REFRIGERANT PIPEWORK - REFNET JOINT
	VRV REFRIGERANT PIPEWORK - MODE CHANGE UNIT
DG1	15x150mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALUMINIUM
DG2	200x150mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALUMINIUM
DG3	250x200mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALUMINIUM
DG4	250x250mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALUMINIUM
DG5	350x300mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALUMINIUM
DG6	600x600mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALUMINIUM
DV1	Ø150mm DISC VALVE
DV2	Ø200mm DISC VALVE
	DRAINAGE SCHEMATICAL PIPEWORK LAYOUT

- General Notes:**
- ALL DUCTWORK TO BE MANUFACTURED IN ACCORDANCE WITH S.M.A.C.N.A. LOW VELOCITY DUCT STANDARDS.
 - ALL DUCTWORK WITH A SEMI-PERIMETER OF 1200mm OR LESS TO HAVE S & DRIVE JOINTS, ABOVE 1200mm TO BE MEZZ FLANGED.
 - ALL DUCTWORK TO BE SUPPORTED WITH GRIPPLE TYPE HANGER CABLE WITH Ø8mm HAND EYE HOOKS @ 2400mm CENTRES.
 - ALL BENDS TO HAVE 150mm RADII & SPLITERS (ONLY IF INDICATED ON THE DRAWING).
 - ALL SHOE PIECES TO BE 150mm LONG @ 45°.
 - ALL DUCTWORK TO BE EXTERNALLY INSULATED WITH 25mm INSULATION (WHERE INDICATED)
 - DENOTES 220V/150 POWER SUPPLY WITHIN 1m. OF EQUIPMENT. (BY ELECTRICIAN)
 - DENOTES 380/350 POWER SUPPLY WITHIN 1m. OF EQUIPMENT. (BY ELECTRICIAN)
 - INDICATES UNIT REFRIGERATION PIPING.
 - INDICATES 50mm CONDENSATE DRAIN PIPING.(BY DTEQ)
 - INDICATES 25mm CONDENSATE DRAIN PIPING. (BY PLUMBER)
 - INDICATES 50mm CONDENSATE DRAIN POINT IN THE CEILING VOID, COMPLETE WITH TUNDISH 120mm ABOVE CEILING. (BY PLUMBER)
 - INDICATES 25mm CONDENSATE DRAIN POINT IN THE PARTITIONING WALL WHERE INDICATED. (BY PLUMBER)
 - CONTROLLER POSITION C/W Ø200mm CONDUIT ABOVE CEILING TO A 50mmx50mm WALL BOX AT 1600mm A.F.F.L. (BY ELECTRICIAN.)
 - DOORS TO BE UNDERCUT BY 30mm. Ø200 ADJUSTABLE DAMPER. (BY BUILDER)
 - STANDARD DOOR GRILLE, OPENING BY CARPENTER
 - RE-HEAT DIFFUSER 220V POWER POINT REQUIRED (BY ELECTRICIAN)
 - OR
 - OPENING'S REQUIRED BY BUILDER.
 - CEILING FAN. - WIRED TO LIGHT CIRCUIT

FOR CONSTRUCTION



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PROJECT NAME:

**VAAL UNIVERSITY
OF TECHNOLOGY**

Design Stage:	Scale:	Trade:	Type of Document:
CONSTRUCTION	1:100	AIR CONDITIONING	DRAWING

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V.U.T THIRD
FLOOR HVAC LAYOUT

Job No / File No / Dwg No.:

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Revision:

3.

NOTE TO ELECTRICAL ENGINEER

MANUFACTURER'S RECOMMENDATIONS:
1.5mm² -CABLE LESS THAN 20 METRES
2.5mm² -CABLE MORE THAN 20 METRES