

V.U.T SECOND FLOOR HVAC LAYOUT

SCALE 1:100

SAMSUNG DVM EQUIPMENT SCHEDULE:

ITEM:	MAKE / MODEL	Qty.	COOLING KW	AIR QTY. NOMINAL	PIPING SIZES:			POWER REQUIREMENTS:				ISOLATOR POSITION	WEIGHT	
					l/s	Liquid	Gas	Pipe lth	Volts	Kw	RUN amps			C.B SIZE
CASSETTES:														
AC-2	AM071FN4DEH/EU	6	7.10	283	3/8	5/8	N/A	220 V	0.045	0.31	A, CURVE 1	INDOOR	15.5 Kg	
AC-4	AM0112FN4DEH/EU	5	11.20	433	3/8	5/8	N/A	220 V	0.078	0.55	A, CURVE 1	INDOOR	17 Kg	
AC-7	AM022FNNDH/EU	2	2.20	150	1/4	1/2	N/A	220 V	0.018	0.17	A, CURVE 1	INDOOR	12 Kg	
AC-8	AM028FNNDH/EU	2	2.80	166	1/4	1/2	N/A	220 V	0.018	0.17	A, CURVE 1	INDOOR	12 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 ALLUMINIUM
DG2	200x150mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALLUMINIUM
DG3	250x200mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALLUMINIUM
DG4	250x250mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALLUMINIUM
DG5	350x300mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALLUMINIUM
DG6	600x600mm DOOR GRILLE, NO VIEW, NATURALLY ANODISED ALLUMINIUM
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 HANG CABLE WITH 88mm HAND EYE HOOKS @ 2400mm CENTRES.
 - ALL BENDS TO HAVE 150mm RADIUS & SPLITTERS (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 220/150 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 Ø20mm 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

Dihlase
CONSULTING ENGINEERS
Practical Innovation
an **EQH** company

Block B9, Waterford Court, 234 Glover Ave,
Lyttelton, Centurion, 0157
Telephone - 012 045 0290
Facsimile - 012 644 9165
E-mail Address - gauteng@dihlase.co.za

BLOEMFONTEIN-DURBAN-GAUTENG-KIMBERLY-PIETERMARITZBURG

dteq Air
AIRCONDITIONING MAINTENANCE • INSTALLATIONS

Reg. No. 2010/109110/23
tel: 011 869-4845
fax: 086 551 7428
e-mail: office@dteq.co.za

21A FIRST AVE
ALBERTON
1449

PROJECT NAME:

VAAL UNIVERSITY OF TECHNOLOGY

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

Document Title:

V.U.T SECOND FLOOR HVAC LAYOUT

Job No / File No / Dwg No.:

DWG- 9164 -003

Revision:
3.

NOTE TO ELECTRICAL ENGINEER

MANUFACTURER'S RECOMMENDATIONS:
SUPPLY ELECTRICAL CABLE TO AC UNITS
1.5mm² -CABLE LESS THAN 20 METRES
2.5mm² -CABLE MORE THAN 20 METRES