CANADIAN HIGH COMISSION GROUND FLOOR FRESH AIR CALCULATION DATA

Indoor Units Room Model Fresh Air Requirement Fresh Air SELECTED FRESH Fresh Air Requirement Number of Model Type per floor Area per Person AIR UNIT (0.3L/sec/sqm) (2.5L/sec) (L/sec) 016 (3 pers.) 11.59 18.10 7.93 017 (1 pers.) 5.43 2.5 VRF FCU 4 GF 0 2.26 020 (None) 2.26 GF 7.55 015 (2 pers.) 2.55 5.0 14.33 29.33 SELECTED VRF FRESH AIR UNIT 014 (2 pers.) 3.0 8.0 Q = 150 L/SGF 6.83 022 (None) GF VRF FCU 5 013 (2 pers.) 8.93 5.0 7.68 TOTAL CALCULATED Q = 103.63 L/S GF 007 (1 pers.) 2.5 4.36 26.87 TOTAL 47.88 14.37 12.5 GF 012 (2 pers.) 3.76 5.0 8.76 GF 011 (3 pers.) 4.67 7.5 12.17 15.58 7.5 VRF FCU 6 GF 7.36 2.21 9.71 009 (3 pers.) 4.29 008 (5 pers.) TOTAL 49.77 32.5 14.93 GF 034 (None) 2.26 2.26 023 (1 pers.) 5.04 GF 024 (1 pers.) 7.27 027,028,028A GF 23.32 6.70 7.5 14.20 VRF FCU 1 (3 pers.) GF 031 (3 pers.) 4.51 12.01 GF 032 (1 pers.) 2.5 4.34 SELECTED 76.38 22.50 VRF FRESH AIR UNIT 22.62 Q = 150 L/S033 (1 pers.) 2.5 5.38 GF 030 (1 pers.) 2.36 2.5 4.86 GF 004 (1 pers.) 2.96 2.5 3.39 TOTAL CALCULATED VRF FCU 2 Q = 146.35 L/SGF 005 (1 pers.) 0.89 2.5 3.39 GF 6.83 0 6.83 022 (None) 22.75 TOTAL 13.85 10.0 43.85 GF 35.33 10.60 35.0 45.60 001 (14 pers.) GF 004 (2 pers.) 2.96 0.89 5.0 5.89 VRF FCU 3 GF 2.96 5.0 5.89 005 (2 pers.) 0.89

TOTAL

41.25

12.38

45.0

57.38

CANADIAN HIGH COMISSION FIRST FLOOR FRESH AIR CALCULATION DATA

			Indoor Unit	s				
Floor	Room Number & Number of Occupants	Floor Area	Fresh Air Requirement per floor Area	Fresh Air Requirement per Person	Total Fresh Air Requirement	Model Type	SELECTED FRESH AIR UNIT	
-	-	(Sqm)	(0.3L/sec/sqm)	(2.5L/sec)	(L/sec)		05:5075	
1ST	101 (4 pers.)	32.14	9.64	10.0	19.64		SELECTED VRF FRESH AIR UNIT	
1ST	102 (2 pers.)	20.56	6.17	5.0	11.17	VRF FCU 7	Q = 150 L/S TOTAL CALCULATED Q = 43.96 L/S	
1ST	120 (2 pers.)	11.00	3.30	5.0	8.30			
1ST	121 (None)	16.18	4.85	0	4.85			
	TOTAL	79.88	23.96	20.0	43.96			
1ST	109 (2 pers.)	11.8	3.54	5.0	8.54			
1ST	110 (3 pers.)	17.92	5.38	7.5	12.88	VRF FCU 8		
1ST	111 (None)	5.62	1.69	0	1.69			
1ST	112 (3 pers.)	10.46	3.14	7.5	10.64		Selected VRF FRESH AIR UNI Q = 150 L/S	
1ST	115 (None)	7.53	2.26	0	2.26			
1ST	117 (8 pers.)	12.09	3.63	20.0	23.63			
1ST	118 (3 pers.)	17.0	5.10	7.5	12.60			
1ST	119 (None)	24.79	7.44	0	7.44			
	TOTAL	107.21	32.18	47.50	79.68			
1ST	103 (1 pers.)	9	2.70	2.5	5.20		1	
1ST	104 (None)	9.58	2.87	0	2.87	VRF FCU 9		
1ST	107 (2 pers.)	8.39	2.52	5.0	7.52		TOTAL CALCULATED Q = 183.20 L/S	
1ST	116 (None)	47.4	14.22	0	14.22			
1ST	122 (None)	19	5.70	0	5.70			
	TOTAL	93.37	28.01	7.5	35.51			
1ST	105 (14 pers.)	26.39	7.92	35.0	42.92		1	
1ST	106 (3 pers.)	15.72	4.72	7.5	12.22	VRF FCU 10		
1ST	108 (3 pers.)	17.91	5.37	7.5	12.87			
	TOTAL	60.02	18.01	50.0	68.01			

			CLIENT	ARCHITECT	SERVICES ENGINEERS			
GENERAL NOTES	EV. DATE	DESCRIPTION APPROV			2000	JOB TITLE	DRAWING PHASE	
1. WORK TO FIGURED DIMENSIONS ONLY					Nechanical & Bectrical Consulting Engineers 2nd Floor Plot 10B, Block 132 DCS Street, U3 Estate, Lekki Phase 1 (Ocean side), Lagos Tel: 234—1—3429060 Emili: admin@mfapartnership.com	CANADIAN HIGH COMMISSION, CHANCERY LAGOS NIGERIA AT 4,	WORK IN PROGRESS	ПΙ
2. ALL DIMENSIONS IN MILLIMETER UNLESS OTHERWISE STATED	+					ANIFOWOSHE STREET, V/I LAGOS	PRELIMINARY	ПΙ
3. CO-ORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF APPLIANCES						DRAWING TITLE	COMMENTS	ПΙ
4. ALL PIPES SIZES ARE INTERNAL DIAMETER						FRESH AIR SYSTEM CALCULATION SHEET	APPROVAL	ПІ
5. ALL TAP OFF FROM RISER PIPES SHOULD GO WITH CONCEALED VALVES FOR CONTROL							TENDER	ПІ
					CHECKED BY CA APPROVED BY CAA MADE BY TN	DRAWING NO. M374/M211 SCALE NTS DATE SEPT., 2018 REV	CONSTRUCTION	$\overline{\checkmark}$