## CANADIAN HIGH COMISSION GROUND FLOOR

## AIR - CONDITIONING CALCU

Indoor Units

Room

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		Model		
	Air Flowrate based on Revised FCU Capacity	Model Type	Floor	Room
	(L/sec)		-	
	157.04	EXISTING FCU 4	1ST	1

			Indo	or Units		
			Roon			Model
Floor	Room Name	Floor Area	Cool Load per sq.	Required Cooling Capacity	Air Flowrate based on Revised FCU Capacity	Model Type
-	-	SQM	KW/SQM	ĸw	(L/sec)	
1ST	101	32.14	0.20	6.43	281.65	EXISTING FCU 7 YORK YFB4: 17.9 K
1ST	102	20.56	0.20	4.11	180.17	Q = 816.7 L/S
1ST	120	11.00	0.20	2.2	96.40	
1ST	121	16.18	0.20	3.24	141.79	REVISED FCU CAPAC CAP: 16.0 KW
	TOTAL	79.88		15.97		Q = 700 L/S
1ST	109	11.8	0.20	2.37	106.43	
1ST	110	17.92	0.20	3.58	161.63	EXISTING FCU 8
1ST	111	5.62	0.20	1.12	50.69	YORK YFB3: 15.8 K
1ST	112	10.46	0.20	2.09	94.34	Q = 723.33 L/S
1ST	115	7.53	0.20	1.51	67.92	
1ST	117	12.09	0.20	2.42	109.05	
1ST	118	17.0	0.20	3.4	153.33	REVISED FCU CAPAC CAP: 22.4 KW
1ST	119	24.79	0.20	4.96	223.60	Q = 967 L/S
	TOTAL	107.21		21.46		
1ST	103	9.0	0.20	1.8	64.29	EXISTING FCU 9
1ST	104	9.58	0.10	0.96	68.44	YORK YFB2: 10.6 K
1ST	107	8.39	0.20	1.68	59.93	Q = 465.8 L/S
1ST	116	47.4	0.10	4.74	338.61	
1ST	122	19.0	0.20	3.80	135.73	REVISED FCU CAPAC CAP: 14.0 KW
	TOTAL	93.37		12.98		Q = 667 L/S
1ST	105	26.39	0.20	5.29	293.27	EXISTING FCU 10
1ST	106	15.72	0.20	3.14	174.70	VORK YFB4: 17.9 k Q = 816.7 L/S
1ST	108	17.91	0.20	3.58	199.03	REVISED FCU CAPAC CAP: 14.0 KW
	TOTAL	60.02		12.01		Q = 667 L/S

			Model					
Floor	Room Name	Floor Area	Cool Load per sq.	Required Cooling Capacity	Air Flowrate based on Revised FCU Capacity	Model Type		
-	-	SQM	KW/SQM	ĸw	(L/sec)			
GF	016	13.64	0.20	2.73	157.04	EXISTING FCU 4 YORK YFB3: 15.8 KW		
GF	017	18.10	0.20	3.62	208.39	Q = 723.33 L/S		
GF	020	7.52	0.20	1.50	86.58			
GF	015	8.51	0.20	1.70	97.98	REVISED FCU CAPACITY CAP: 11.2 KW		
	TOTAL	47.77		9.55		Q = 550 L/S		
GF	014	10.00	0.20	2	73.10	EXISTING FCU 5		
GF	(1/2) 022	22.75	0.10	2.28	166.30	YORK YFB1: 7.0 KW Q = 325.56 L/S		
GF	013	8.93	0.20	1.79	65.28			
GF	007	6.20	0.20	1.24	45.32	REVISED FCU CAPACITY CAP: 8.0 KW		
	TOTAL	47.88		7.31		Q = 350 L/S		
GF	012	12.54	0.20	2.51	138.58	EXISTING FCU 6		
GF	011	15.58	0.20	3.12	172.17	YORK YFB2: 10.6 KW Q = 465.8 L/S		
GF	009	7.36	0.20	1.47	81.33			
GF	008	14.29	0.20	2.86	157.92	REVISED FCU CAPACIT CAP: 11.2 KW		
	TOTAL	49.77		9.96		Q = 550 L/S		
GF	034	7.54	0.20	1.51	68.74			
GF	023	8.45	0.20	1.69	77.44	EXISTING FCU 1		
GF	024	15.91	0.20	3.18	145.81	YORK YFB3: 15.8 KW Q = 723.33 L/S		
GF	027,028,028A	23.32	0.20	4.66	213.72			
GF	031	15.03	0.20	3.01	137.75	REVISED FCU CAPACITY		
GF	032	6.13	0.20	1.23	56.18	CAP: 16.0 KW Q = 700 L/S		
	TOTAL	76.38		15.28				
GF	033	9.60	0.20	1.92	65.98			
GF	030	7.85	0.20	1.57	53.96	EXISTING FCU 2 YORK YFB1: 7.0 KW		
GF	(1/2) 004	2.96	0.20	0.59	20.35	Q = 325.56 L/S		
GF	(1/2) 005	2.96	0.20	0.59	20.35			
GF	(1/2) 022	22.75	0.10	2.28	156.37	REVISED FCU CAPACITY CAP: 7.0 KW		
	TOTAL	46.12		6.95		Q = 317 L/S		
GF	001	35.33	0.20	7.07	299.77	EXISTING FCU 3		
GF	(1/2) 004	2.96	0.20	0.59	25.12	YORK YFB1: 7.0 KW Q = 325.56 L/S		
GF	(1/2) 005	2.96	0.20	0.59	25.12	REVISED FCU CAPACITY		
	TOTAL	41.25		8.25		CAP: 8.0 KW Q = 350 L/S		

			CLIENT	ARCHITECT	SERVICES ENGINEERS				
GENERAL NOTES           1. WORK TO FIGURED DIMENSIONS ONLY           2. ALL DIMENSIONS IN MILLIMETER UNLESS OTHERWISE STATED           3. CO-ORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF APPLIANCES           4. ALL PIPES SIZES ARE INTERNAL DIAMETER           5. ALL TAP OFF FROM RISER PIPES SHOULD GO WITH CONCEALED VALVES FOR CONTROL	DATE	E DESCRIPTION APPROVAL  PROVAL  PROVAL PROV			Rechenced & Becklad Consulting Engineers 2nd Floor Piot 10B, Block 132 DCS Street, U3 Estate, Lekki Phase 1 (Ocean side), Lagos. Tel: 234-1-3429080 Emgli: admin@mfcgorfnership.com Engli: Admin@mfcgorfnership.com CHECKED BY CA APPROVED BY CAA MADE BY TN	ANIFOWOSH DRAWING TI AIRCONDITIO	IGH COMMISSION IE STREET, V/I LAC TLE DNING SYSTEM CA M374/M210	GOS	

## CANADIAN HIGH COMISSION FIRST FLOOR

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