

SCHEDULE OF AIR HANDLING UNIT (AHU):

PHASE No.	DESIGNATION	COOLING CAPACITY (KW)			SUPPLY FAN			COOLING COIL TEMP		ELECTRICAL POWER SUPPLY (KW)	OUTDOOR UNIT		QTY	
		TOTAL	SENSIBLE	LATENT	FAN	FLOW RATE (L/S)	ESP (Pa)	POWER (KW)	ON COIL(DB/WB)		OFF COIL(DB/WB)	DESIGNATION		SELECTION
PET SCAN	AHU-BS3-PET-01	33.95	8.93	25.02	EC TYPE	521	300	0.37	35 / 29.1	21 / 14.6	14	VRV-OU-PET-02	RXQ14ARYFK	1

NOTES:

1. Inner panel to be stainless steel
2. Volume control dampers to be aluminum; cooling coils to be stainless steel.
3. Unit to be 100% Fresh Air configuration with G4 pre-filters and F7 bag filters.
4. DXcooling coil with all accessories and control
5. Outdoor unit with bacnet interface
6. The Unit selection shall be for ambient temp 30°C and outdoor unit capable to operate at maximum ambient temperature as high as 41°C.
7. The motor KW are estimated; contractor shall calculate the total static pressure according to the AHU and the shop drawings, and the size of the motor accordingly.
8. Panel shall be provided.
9. The cooling coil shall be sized with an additional capacity of 10% of the total cooling capacity.
10. The ESP & power supply are estimated; contractor shall establish actual static head and actual power and submit calculations to engineer for approval.
11. Cooling coil of the air handling unit should be at least 6 rows.

INDOOR UNIT										OUTDOOR UNIT						
AC Tag	Quantity	Location	Room Served	Calculated Sensible Load	Selection Total Cooling Load	Selection Sensible Cooling Load	Air Flow	TYPE	POWER INPUT	AC Tag	LOCATION	CF	CAPACITY RANGE SELECTED	OU SELECTION	COOLING POWER	POWER INPUT
				KW	KW	KW	LPS		KW				HP		kW	KW
VRV-IU-PET-01	1	MALE CHANGING ROOM	WAITING AREA+PANTRY	3.9	6.2	4.6	350	concealed	0.095	VRV-OU-PET-01	BASEMENT 1 TERRACE	100	18	RXYTQ100T7YF	45.4	14.86
VRV-IU-PET-02	1	WAITING AREA	PET SCAN+ INJECTION ROOMS+ HOT LAB + CORR 1+ DIRTY UTILITY	14.9	19.5	15.1	967	concealed hs	1.3							
VRV-IU-PET-03	1	CORRIDOR 2	LOUNGE+RADIOLOGIST OFFICE+CORR 2+CONTROL ROOM	10.7	14.0	10.7	767	concealed hs	0.461							
DX-IU-PET-04	1	FEMALE CHANGING ROOM	PET Scan Room redundancy	10.2	13.5	10.8	638.0	concealed	0.4	DX-OU-PET-04	BASEMENT 1 TERRACE	100	6	RAS-6.0UNESNH1	13.5	4.1

NOTES:

1-THE VRV OUTDOOR UNITS SHALL BE EQUIPPED WITH A FULL INTERFACE CONTROL UNIT SUPPORTING BACNET PROTOCOL, INTEGRATED WITH THE BUILDING MANAGEMENT SYSTEM (BMS) TO ENABLE MONITORING AND CONTROL OF BOTH OUTDOOR AND INDOOR UNITS.

SCHEDULE OF FANS

DESIGNATION	SERVICE	QTY	AIR FLOW	EXT STATIC PRESSURE	MOTOR DATA		TYPE	REMARKS
			L/s		Pa	POWER		
					kW	Volts/Ph/Hz		
EAF-01	(PHARMACY) TOILETS + (PET SCAN) LOUNGE TOILET & CHANGING ROOM	1	185	150	0.1	230/1/50	CENTRIFUGAL INLINE	TO BE CONTROLLED WITH BMS
EAF-02	CHANGING ROOMS + PANTRY	1	60	150	0.1	230/1/50	CENTRIFUGAL INLINE	TO BE CONTROLLED WITH BMS

NOTES:

1- EXTERNAL STATIC PRESSURE IS INDICATIVE, AND SHALL BE RECHECKED BY CONTRACTOR.

