FAN COIL UNIT SCHEDULE (DX COOLING, ELECTRIC HEATING)

MARK	MANUFACTURER	MODEL	SUPPLY FAN				COOLING COIL							HEATING COIL					MIN	ELECTRICAL				WEIGHT	NOTES
			CFM	ESP (IN)	BHP	NOM HP	TH (MBH)	SH (MBH)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	REFR TYPE	MIN OUT (MBH)	NOM (KW)	EAT (°F DB)	LAT (°F DB)	MIN NO STAGES	OA (CFM)	V/PH	MCA	MOCP	DISC TYPE	(LBS)	
FCU-1	CARRIER	40RFAA12A	3,600	0.5	1.01	2.4	103.3	81.7	75	61.4	54	51.2	R410A	75.9	25	70	90	2	0	460/3	41.4	50	DIV. 26	425	ALL
FCU-2	CARRIER	40RFAA12A	3,600	0.5	1.01	2.4	115.2	86.2	81.4	67.2	59.2	57.1	R410A	91	35	56.6	90	2	1195	460/3	56.4	60	DIV. 26	425	ALL
FCU-3	CARRIER	FXDNB037L	1,050	0.5	-	0.5	29.5	22.8	74.2	61.6	54.1	51.6	R410A	27.3	8	63	90	1	70	208/1	44.7	45	DIV. 26	175	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. ASSOCIATED CONDENSING UNIT SHALL BE BY THE SAME MANUFACTURER.
B. EQUIPMENT SIZED FOR 100°F AMBIENT TEMPERATURE.
C. PROVIDE PRE-MANUFACTURED OR FIELD FABRICATED FILTER RACK ON UNIT RETURN AIR INLET WITH 2" MERV 13, PLEATED THROWAWAY FILTERS. FILTERS SHALL BE ACCESSIBLE FROM SERVICE SIDE OF UNIT. BOTTOM ACCESS FILTER RACK IS NOT PERMITTED.
D. PROVIDE WITH BACK INLET CONNECTION.
E. PROVIDE WITH FRONT OUTLET CONNECTION.
F. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION OF AUXILIARY HEATING, COOLING AND CONTROLS. PROVIDE ACRYLIC, VANDAL-PROOF, LOCKING THERMOSTAT COVER.
G. DISCONNECT SWITCH PROVIDED BY DIVISION 26 CONTRACTOR.
J. PROVIDE SINGLE POINT POWER CONNECTION.
K. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT. FILTER LOSS IS AT A MAXIMUM OF 400 FPM FACE VELOCITY.
L. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
N. PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.
P. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT. NOMINAL KW IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT. COORDINATE EQUIPMENT POWER SUPPLY WITH ELECTRICAL CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED.
R. PROVIDE AUXILIARY DRAIN PAN WITH FLOOD DETECTOR SWITCH TO SHUT OFF UNIT WHEN WATER IS PRESENT IN DRAIN PAN.
S. PROVIDE WITH BACNET OPENBOARD CONTROLLER. COORDINATE CONTROLS REQUIREMENTS WITH EMS VENDOR PRIOR TO PURCHASING.

CONDENSING UNIT SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	REFR TYPE	TH (MBH)	MIN NO STAGES	NO OF CIRCUITS	MIN EFF (EER)	MIN EFF (SEER)	MIN EFF (IEER)	V/PH	MCA	MOCP	DISC TYPE	WEIGHT (LBS)	NOTES
CU-1	FCU-1	CARRIER	38AUDT12A	R410A	120	3	2	11.2	-	14.9	460/3	18	25	DIV. 26	516	ALL
CU-2	FCU-2	CARRIER	38AUDT12A	R410A	120	3	2	11.2	-	14.9	460/3	18	25	DIV. 26	516	ALL
CU-3	FCU-3	CARRIER	24SCA563W	R410A	36	1	1	13	15.2	-	208/1	16.7	25	DIV. 26	169	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. PROVIDE LOW AMBIENT CONTROL TO 25°F.
B. EQUIPMENT SIZED FOR 100°F AMBIENT TEMPERATURE.
C. COORDINATE WITH THE MANUFACTURER THE HORIZONTAL AND VERTICAL REFRIGERANT PIPE ROUTING TO DETERMINE PIPE SIZES FOR THE REFRIGERANT PIPING. MANUFACTURER SHALL PROVIDE DETAILED REFRIGERANT PIPING DIAGRAMS INCLUDING DIMENSIONAL DATA FOR ALL REFRIGERANT PIPING DEVICES. THE MANUFACTURER SHALL SIZE AND LOCATE THE ASSOCIATED REFRIGERANT TRAPS BASED ON THE ACTUAL ROUTING AND PROVIDE OTHER APPURTENANCES TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM. COORDINATE WITH THE MANUFACTURER LOCATIONS FOR ALL REFRIGERANT PIPING DEVICES TO MAINTAIN
D. PROVIDE LIQUID LINE FILTER DRYER AND SIGHT GLASS.
E. REUSE EXISTING EQUIPMENT SUPPORTS FOR MOUNTING UNIT OF ROOF.
F. DISCONNECT SWITCH PROVIDED BY DIMSION 26 CONTRACTOR.
G. STARTERS FOR ALL MOTORS SHALL BE PROVIDED INTEGRAL WITH UNIT.
H. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
L. SELECT EQUIPMENT FOR ELEVATION OF 227 FEET ABOVE SEA LEVEL.
M. COORDINATE NUMBER OF CIRCUITS PROVIDED WITH NUMBER OF CONNECTIONS ON DX COIL SERVED.
N. PROVIDE A FACTORY APPLIED COIL CORROSION COATING TO CONDENSER COIL WHICH IS CAPABLE OF WITHSTANDING GREATER THAN 6,000 HOURS OF THE ASTM B117 SALT SPRAY TEST.

OUTSIDE AIR REQUIREMENTS, UMC-2021 (IP)

SYSTEM DESIGNATION	SYSTEM TAB NAME OR LIST 'SINGLE'	SINGLE-ZONE SYSTEMS ONLY: SINGLE-ZONE SYSTEM ASSOCIATED VENTILATION ZONE	SINGLE-ZONE SYSTEMS ONLY: SINGLE ZONE WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS [Ez]	MULTI-ZONE SYSTEMS ONLY: SYSTEM VENTILATION EFFICIENCY [Ev]	FLOOR AREA SERVED BY SYSTEM [As] (SF)	SYSTEM AVERAGED AREA BASED OUTDOOR AIR RATE (CFM/SF)	SYSTEM POPULATION [Ps] (PEOPLE)	SYSTEM AVERAGED PEOPLE-BASED OUTDOOR AIR RATE (CFM/P)	REQUIRED OA INTAKE FLOW [Vot] (CFM)	REQUIRED DCV OA INTAKE FLOW [Vot] (CFM)	DESIGN OA INTAKE FLOW [Vot] (CFM)	NOTES
FCU1,2	SINGLE ZONE	SALES	0.80	-	4,101	0.120	81.515	7.50	1,192	815	1,195	
FCU-3	FCU-3	-	-	0.94	374	0.060	8	5.00	86	N/A	70	
								TOTALS	1,358	815	1,265	

GENERAL NOTES:
1. VENTILATION CALCULATIONS BASED ON UMC-2012.
2. SYSTEM POPULATIONS BASED ON MAX SEATING AND/OR CODE MAXIMUM VALUES.
3. SINGLE ZONE SYSTEMS (Vot = Voz): SYSTEM VENTILATION EFFICIENCY CALCULATION IS NOT REQUIRED FOR SINGLE ZONE SYSTEMS. WORST CASE AIR DISTRIBUTION EFFECTIVENESS BETWEEN HEATING AND COOLING MODES OF OPERATION IS SHOWN IN TABLE.
4. 100% OA SYSTEMS (Vot = $\sum_{all\ zones}$ Voz): WHEN ONE AIR HANDLER SUPPLIES ONLY OUTDOOR AIR TO ONE OR MORE ZONES. EACH ZONE IS INDIVIDUALLY CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING).
5. MULTI-ZONE RECIRCULATING SYSTEMS: CALCULATOR WAS USED TO DETERMINE VENTILATION AIRFLOW IN COMPLIANCE WITH UMC-2012 VRP AND ASHRAE 62.1-2010 APPENDIX A. VENTILATION RATE SHOWN IS ACTUAL CALCULATED WITH CORRECTION FACTORS INCLUDED. EACH ZONE IS CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING) AS PART OF CALCULATIONS TO FIND Ev.

EXISTING SPLIT UNITS

MARK	MANUFACTURER	MODEL	ELECTRICAL V/PH	ELECTRICAL MOCP	APPROX WEIGHT (LBS)	NOTES
FCU-1	CARRIER	40RUA-A12	460/3	50	425	A
FCU-2	CARRIER	40RUA-A12	460/3	50	425	A
FCU-3	CARRIER	FX4CNF036	208/1	60	147	A
CU-1	CARRIER	38AUD-A12	460/3	25	516	A
CU-2	CARRIER	38AUD-A12	460/3	25	516	A
CU-3	CARRIER	24ACB436	208/1	35	226	A

NOTES:

A. INFORMATION FROM AS-BUILT DRAWINGS

NIKE FY25 HVAC REPLACEMENT

NIKE WELL COLLECTIVE

800 TOWN AND COUNTRY BLVD
HOUSTON, TX 77024

FOR REFERENCE ONLY

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2450004149

MECHANICAL SCHEDULES

DATE: 11/01/2024
SCALE: NO SCALE

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2