

EXISTING ROOFTOP UNIT SCHEDULE (ELECTRIC HEAT)

MARK	MANUFACTURER	MODEL	ELECTRICAL		WEIGHT (LBS)	NOTES
			V/PH	MOCP		
RTU-1	TRANE	TC092F	480/3	40	1210	A
RTU-2	CARRIER	50TCD08	480/3	40	1250	A
RTU-3	CARRIER	50TCD08	480/3	40	1250	A
RTU-4	TRANE	TC092F	480/3	40	1210	A
RTU-5	TRANE	TC092F	480/3	40	1210	A
RTU-6	CARRIER	50TCD08	480/3	40	1250	A
RTU-7	TRANE	THC048F	480/3	30	1050	A

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. SCHEDULE IS PROVIDED FOR REFERENCE ONLY. INFORMATION SHOWN IS BASED ON AS-BUILT DRAWINGS AND/OR SITE OBSERVATIONS. CONTRACTORS SHALL BE RESPONSIBLE TO FIELD VERIFY INFORMATION SHOWN AS IT RELATES TO PROVIDING NEW CURBS OR ADAPTER CURBS, STRUCTURAL REINFORCEMENT, ELECTRICAL SYSTEM MODIFICATIONS, OR OTHER SYSTEMS THAT MAY REQUIRE MODIFICATION DUE TO REPLACEMENT OF THE EXISTING EQUIPMENT.

OUTSIDE AIR REQUIREMENTS, IMC-2021 (IP)

SYSTEM DESIGNATION	SYSTEM TAG NAME OR LIST SINGLE	SINGLE-ZONE SYSTEMS ONLY		MULTI-ZONE SYSTEMS ONLY SYSTEM VENTILATION EFFICIENCY [EV]	FLOOR AREA SERVED BY SYSTEM [A _S] (SF)	SYSTEM AVERAGED AREA-BASED OUTDOOR AIR RATE (CFMSF)	SYSTEM AVERAGED POPULATION [P _S] (PEOPLE)	SYSTEM AVERAGED PEOPLE-BASED OUTDOOR AIR RATE (CFMP)	REQUIRED OA INTAKE FLOW [Q _{OA}] (CFM)	REQUIRED DCV OA INTAKE FLOW [Q _{DCV}] (CFM)	DESIGN OA INTAKE FLOW [Q _{OA}] (CFM)	NOTES
		SINGLE-ZONE SYSTEM ASSOCIATED VENTILATION ZONE	SINGLE ZONE WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS [E _Z]									
RTU-7	SINGLE ZONE	STOCK	0.00	-	2,221	0.120	0	0.00	333	N/A	340	
RTU-1,2,3,4,5,6	MULTI-ZONE (RTU-1,2,3,4,5,6)	-	-	0.86	10,327	0.115	151.71	7.35	2,406	1,288	2,850	
TOTALS									2,738	1,288	2,750	

GENERAL NOTES:

- VENTILATION CALCULATIONS BASED ON IMC-2021
- SYSTEM POPULATIONS BASED ON MIN SEATING AND/OR CODE MAXIMUM VALUES.
- SINGLE-ZONE SYSTEMS (V_{AV} = V_{OC}): 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.
- 100% OAS SYSTEMS (V_{AV} = 2.0 * V_{OC}): 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).
- MULTI-ZONE RECIRCULATING SYSTEMS: CALCULATOR USED TO DETERMINE VENTILATION AIRFLOW IN COMPLIANCE WITH IMC-2021 V/PH AND ASHRAE 62.1-2016 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.

ROOFTOP UNIT SCHEDULE (DX COOLING, ELECTRIC HEATING)

MARK	MANUFACTURER	MODEL	NOMINAL TONS	SUPPLY FAN			COOLING COIL					HEATING COIL		MIN OA CFM	ABS OIA	ELECTRICAL			WEIGHT (LBS)	NOTES	
				CFM	ESP (IN)	VFD (Y/N)	TH (MBH)	SH (MBH)	REFR TYPE	MIN EFF (EER)	MIN EFF (EEER)	MIN NO STAGES	NOM (KW)			MIN NO STAGES	V/PH	MCA			MOCP
RTU-1	CARRIER	50FE-N08A206	7.5	2,400	0.7	Y	828	57.3	R454b	11.4	15.2	2	15	2	410	215	460/3	42	45	1250	A-E, G-Y
RTU-2	CARRIER	50FE-N08A206	7.5	2,400	0.7	Y	828	57.3	R454b	11.4	15.2	2	15	2	410	215	460/3	27	30	1250	A-E, G-Y
RTU-3	CARRIER	50FE-N08A206	7.5	2,400	0.7	Y	828	57.3	R454b	11.4	15.2	2	15	2	410	215	460/3	27	30	1250	A-E, G-Y
RTU-4	CARRIER	50FE-N08A206	7.5	2,400	0.7	Y	828	57.3	R454b	11.4	15.2	2	15	2	410	215	460/3	42	45	1250	A-E, G-Y
RTU-5	CARRIER	50FE-N08A206	7.5	2,400	0.7	Y	828	57.3	R454b	11.4	15.2	2	15	2	410	215	460/3	42	45	1250	A-E, G-Y
RTU-6	CARRIER	50FE-N08A206	7.5	2,400	0.7	Y	828	57.3	R454b	11.4	15.2	2	15	2	410	215	460/3	27	30	1250	A-E, G-Y
RTU-7	CARRIER	50FE-B06A306	4	1,200	0.7	N	396	27	R454b	12	-	2	12	2	340	N/A	460/3	28	30	941	A-F, H-Y

MODEL NUMBERS AND NOMINAL TONS LISTED SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER, MODEL NUMBERS, OR NOMINAL TONS 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:

- ROOFTOP UNIT REPLACEMENT IS "LIKE FOR LIKE" UNLESS NOTED OTHERWISE.
- EQUIPMENT SIZED FOR 100°F AMBIENT TEMPERATURE.
- PROVIDE 2 INCH MERV 13, EFFICIENT FLEATED THROWAWAY AIR FILTERS.
- EXISTING FIELD-INSTALLED DISCONNECT SWITCH TO REMAIN.
- STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
- PROVIDE CONSTANT VOLUME SUPPLY FAN.
- PROVIDE FACTORY MOUNTED VARIABLE FREQUENCY DRIVE OR 2-SPEED MOTOR TO FACILITATE STAGED FAN SPEED CONTROL.
- PROVIDE SINGLE POINT POWER CONNECTION. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.
- PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWERED EXHAUST FAN.
- COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
- PROVIDE 125 VAC, 20 AMP DUPLEX CONVENIENCE RECEPTACLE MOUNTED TO UNIT READY FOR FIELD WIRING WITH A COVER UL LISTED FOR WET AND DAMPER LOCATIONS WHEN IN USE.
- SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
- 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 N ROOF CURB IS EXISTING TO REMAIN. IF NECESSARY, PROVIDE ROOF CURB ADAPTER FROM EXISTING CURB PENETRATION TO NEW UNIT. COORDINATE CURB ADAPTER TYPE WITH EXISTING CURB CONDITIONS AND EQUIPMENT MANUFACTURER.
- PROVIDE HOT GAS REHEAT DEHUMIDIFICATION COIL.
- SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT, AND CURB ADAPTER, AS NECESSARY.
- COOLING COIL LATS LEAVING AIR TEMPERATURE OF COIL.
- PROVIDE GUARDS TO PROTECT CONDENSER COIL FROM HAIL OR OTHER DAMAGE.
- 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.
- ABS. MIN. OIA IS THE ABSOLUTE MINIMUM OUTSIDE AIR CFM USING VENTILATION RESET OR DEMAND CONTROL VENTILATION.
- 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.
- PROVIDE UNIT WITH FACTORY INSTALLED CARRIER SYSTEM/CONTROLLER OR TRANE BACKNET OPENBOARD DEPENDING ON THE UNIT WITH SUPPLY AND OUTSIDE AIR TEMPERATURE SENSORS.
- PROVIDE WITH DUCT SMOKE DETECTOR WIRE HARNESS KIT FOR EMS INTERFACE FOR SYSTEM/UNITS. SMOKE DETECTORS ARE EXISTING TO REMAIN AND SHALL SHUT DOWN UNIT UPON ALARM.

**NIKE FY25 HVAC REPLACEMENT
GULFPORT**
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FOR REFERENCE ONLY



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MECHANICAL
SCHEDULES

DATE: 01/20/2025
SCALE: NO SCALE

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