

ROOFTOP UNIT SCHEDULE																																														
PLAN MARK	AREA SERVED	MAKE	MODEL NUMBER	UNIT TYPE	EER IEER	SA (CFM)	OA (CFM)	ESP (IN. W.C.)	TSP (IN. W.C.)	SUPPLY FAN					DX COOLING COIL				HOT GAS REHEAT				ELECTRIC HEAT				REFRIGERANT CIRCUITS						UNIT ELECTRICAL			COND. DRAIN CONN. (IN.)	DIMENSIONS (LXWXH-IN.)	OPER. WEIGHT (LB.)	REMARKS							
										FAN EACH					MOTOR EACH				CAP.		EAT DB/WB (DEG. F)	LAT DB/WB (DEG. F)	CAP. SENS (MBH)	EAT DB/WB (DEG. F)	LAT DB/WB (DEG. F)	CAP. STEPS	POSITION	CAP. (KW)	EAT/LAT DB (DEG. F)	CAP. STEPS	MAX. AMB. OPER. (DEG. F)	MIN. AMB. OPER. (DEG. F)	CAP. STEPS	COMRR. QTY.	CKT. QTY.					REFG. CHARGE EA. CKT. (LB.)	REFRIG. TYPE	MCA	MOCP	VOLTAGE (V/HZ/PH)		
										QNTY.	TYPE	DIA. X W (IN.XIN.)	RPM	DRIVE TYPE	QNTY.	BHP	HP	TYPE	TOTAL (MBH)	SENS (MBH)																										
EX RTU-1	CLASSROOM CONFERENCE	CARRIER	50TC-A07	SCZAV	EXISTING	1800	340	0.80	1.90	1	DWDI FC	10.0X10.0	-	DIRECT	1	1.9	2.90	ODP	69.8	49.4	78.1/65.8	53.5/53.0	-	-	-	-	REHEAT	11.5	63.4/85.2	1	95	40	1	1	1	14.1	R410A	23.0	25	480/60/3	0.75	74.38X46.75X41.38	920	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖㉗㉘㉙㉚㉛㉜㉝㉞㉟㊱㊲㊳㊴㊵㊶㊷㊸㊹㊺		
EX RTU-2	RECEPTION OFFICE	CARRIER	50TC-D09	SCZAV	EXISTING	2550	340	0.80	2.10	1	DWDI FC	15.0X15.0	971	BELT	1	1.8	2.90	ODP	94.9	68.5	77.2/64.9	52.4/52.3	-	-	-	-	REHEAT	13.9	64.7/83.3	1	95	40	2	2	2	10.5/10.8	R410A	26.0	30	480/60/3	0.75	88.13X59.50X49.38	1200	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖㉗㉘㉙㉚㉛㉜㉝㉞㉟㊱㊲㊳㊴㊵㊶㊷㊸㊹㊺		
EX RTU-3	OFFICES BREAK RM.	CARRIER	50TC-D09	WTCVAV	EXISTING	2550	310	0.80	2.10	1	DWDI FC	15.0X15.0	971	BELT	1	1.8	2.90	ODP	94.5	68.5	77.0/64.7	52.2/52.1	-	-	-	-	REHEAT	13.9	65.0/83.6	1	95	40	2	2	2	10.5/10.8	R410A	26.0	30	480/60/3	0.75	88.13X59.50X49.38	1200	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖㉗㉘㉙㉚㉛㉜㉝㉞㉟㊱㊲㊳㊴㊵㊶㊷㊸㊹㊺		
RTU-4	DINING PREMIER KIT.	ADDISON	PRRK-241	SCZAV	12.9/15.0	4500	1900/800	1.00	3.19	1	SWSI BI	20.19X7.36	2055	DIRECT	1	3.8	6.97	ECM	269.5	150.9	82.0/69.5	49.9/49.1	90.8	49.9/49.1	72.2/58.4	MOD.	REHEAT	30.0	61.7/84.5	SCR	95	40	MOD.	2	2	-	R410A	53.4	70	480/60/3	1.00	143.63X92.00X99.00	5007	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖㉗㉘㉙㉚㉛㉜㉝㉞㉟㊱㊲㊳㊴㊵㊶㊷㊸㊹㊺		
RTU-5	WORK AREA	CARRIER	50TC-D09	SCZAV	11.2/13.0	2550	500	1.00	2.30	1	DWDI FC	15.0X15.0	971	BELT	1	1.8	5.00	ODP	97.2	68.4	78.3/66.0	53.4/53.4	-	-	-	-	REHEAT	13.9	63.2/81.8	1	95	40	2	2	2	10.5/10.8	R410A	27.0	30	480/60/3	0.75	88.13X59.50X49.38	1200	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖㉗㉘㉙㉚㉛㉜㉝㉞㉟㊱㊲㊳㊴㊵㊶㊷㊸㊹㊺		
RTU-6	PROD. KIT.	ADDISON	PRRK-300	SCZAV	12.9/15.0	4980	3010/1110	1.00	2.91	1	SWSI BI	20.19X7.36	2147	DIRECT	1	3.8	6.97	ECM	320.9	151.2	80.0/72.2	52.7/52.4	101	52.7/52.4	71.4/59.8	MOD.	REHEAT	30.0	56.2/76.8	SCR	95	40	MOD.	2	2	-	R410A	54.9	70	480/60/3	1.00	143.63X92.00X99.00	5054	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖㉗㉘㉙㉚㉛㉜㉝㉞㉟㊱㊲㊳㊴㊵㊶㊷㊸㊹㊺		
①	PROVIDE SINGLE POINT POWER CONNECTION.	⑥	INCLUDE FILTER MANUFACTURER'S RECOMMENDED DIRTY FILTER AIR PRESSURE DROP IN UNIT INTERNAL LOSSES; SEE FILTER SCHEDULE.	⑩	PROVIDE OUTDOOR AIR HOOD WITH LOW-LEAK CLASS 1 OUTDOOR AIR DAMPER AND MODULATING ACTUATOR	⑬	PROVIDE TYPE 304 STAINLESS STEEL DOUBLE-SLOPED ASHRAE COMPLIANT IAQ DRAIN PAN.	⑮	PROVIDE BMS SPACE TEMPERATURE CONTROL SEQUENCE OF OPERATION WITH COOLING, DEHUMIDIFICATION, AND HEATING MODES																																					

PLAN MARK	AREA SERVED	MAKE	MODEL NUMBER	UNIT TYPE	EER IER	MAX. SA (CFM)	MINI. SA (CFM)	ESP (IN. W.C.)	TSP (IN. W.C.)	SUPPLY FAN						DX COOLING COIL			HEATING				REFRIGERANT CIRCUITS								UNIT ELECTRICAL			SONES	COND. DRAIN CONN. (IN.)	DIMENSIONS (LXWXH-IN.)	OPER. WEIGHT (LB)	CONTROL INTERLOCKS	EQUIPMENT INTERLOCKS	REMARKS																												
										FAN EACH					MOTOR EACH					CAP.		EAT DB/WB (DEG. F)	LAT DB (DEG. F)	TYPE	SENS. CAP. (MBH)	EAT DB (DEG. F)	LAT DB (DEG. F)	MAX. AMB. OPER. (DEG. F)	MIN. AMB. OPER. (DEG. F)	CAP. STEPS	COMMR QTY.	CKT. QTY.	REFG. CHARGE EA. CKT. (L.B.)								REFRIG TYPE	MCA	MOCP	VOLTAGE (V/Hz/Ph)																								
										QNTY.	TYPE	DIA. (IN)	RPM	DRIVE	QNTY.	BHP	HP	RPM	TYPE	ENC.	TOTAL (MBH)																								SENS (MBH)																							
MAU-1	PROD. KIT.	ACCUREX	XMSX-115-H22-07	VAV MUA	12.5/-	4890	2445	0.500	1.042	1	DWIDFC	15.00	812	BELT	1	2.23	3.00	1800	NEMA	ODP	122.7	76.0	91.8/77.8	-	-	44.6	68.0	95	40	2	2	2	-/-	R410A	20.7	25	480/6/3	18.7	0.75	158.90X86.32X44.95	2090	KIT. HD. 107	RTU-8	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱																								
MAU-2	PROD. KIT.	ACCUREX	XMSX-120-H32-12	VAV MUA	12.4/-	6150	3075	0.500	0.917	1	DWIDFC	20.00	537	BELT	1	1.81	5.00	1800	NEMA	ODP	188.0	108.3	91.8/77.8	75.9/70.5	-	-	44.6	68.0	95	40	2	2	2	-/-	R410A	36.2	45	480/6/3	9.8	0.75	184.70X101.07X48.72	2950	KIT. HD. 209	RTU-6	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱																							
MAU-3	PREMIER KIT.	ACCUREX	XMSX-120-H32-16	VAV MUA	12.2/-	7600	3800	0.600	1.208	1	DWIDFC	20.00	623	BELT	1	3.02	7.5	1800	NEMA	ODP	221.6	127.0	91.8/77.8	76.7/70.9	-	-	44.6	68.0	95	40	2	2	2	-/-	R410A	43.2	50	480/6/3	13.8	0.75	184.70X101.07X48.72	3020	KIT. HD. 718	RTU-4	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱																							
①	PROVIDE SINGLE POINT POWER CONNECTION:.				④				PROVIDE AEGIS MOTOR SHAFT GROUNDING RING.				⑦				FAN BRAKE HORSEPOWER SHALL NOT EXCEED 85% OF SCHEDULED NOMINAL MOTOR HORSEPOWER.				⑨				PROVIDE OUTDOOR AIR HOOD WITH GREENHECK M/N: VCD-23 LOW LEAK CLASS 1A 1 OUTDOOR AIR DAMPER AND TWO-POSITION ACTUATOR.				⑪				PROVIDE TYPE 304 STAINLESS STEEL DOUBLE-SLOPED ASHRAE COMPLIANT IAQ DRAIN PAN.				⑬				PROVIDE SUPPLY FAN BEARINGS WITH MINIMUM 100,000 HOUR L10/500,000 HOUR L50 LIFE.				⑮				PROVIDE MANUFACTURERS PROGRAMMABLE DDC CONTROLLER WITH BMS BACNET INTERFACE.				⑰				PROVIDE MINIMUM 18 INCH HIGH WELDED GALVANIZED STEEL ROOF CURB WITH 1"-3# INSULATION, LINER, AND CURB GASKET. COORDINATE ROOF CURB WITH ROOF INSULATION THICKNESS, SLOPE AND STRUCTURE CONSTRUCTION. ROOF CURB HEIGHT SHALL BE MINIMUM 14" ABOVE FINISHED ROOF.				⑲				PROVIDE AND SUBMIT UNIT AND ROOF CURB FLORIDA BUILDING CODE COMPLIANT WIND LOAD RATING CERTIFICATION, CALCULATIONS, AND UNIT-TO-ROOF CURB AND ROOF CURB-TO-ROOF SUPPORT STRUCTURE TIE-DOWN DESIGN, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.			
②	PROVIDE NEMA 3R DISCONNECT SWITCH.				⑤				VARIABLE SPEED DRIVE PROVIDED BY MAKEUP AIR UNIT MANUFACTURER.				⑧				PROVIDE SOLID DOUBLE WALL AIR TUNNEL LINERS AND ONE INCH THICK FIBERGLASS CABINET INSULATION WITH MINIMUM R-4.3 VALUE.				⑩				PROVIDE ANTI-CORROSION COATING ON INDOOR COIL MEETING ASTM-B117 10,000 HOUR SALT SPRAY TEST.				⑫				PROVIDE BELT DRIVE WITH MINIMUM TWO GROOVE ADJUSTABLE MOTOR SHEAVE AND 1.50 SERVICE FACTOR RATING.				⑭				PROVIDE RUBBER-IN SHEAR VIBRATION ISOLATORS UNDER FAN/MOTOR BASE AND COMPRESSORS.				⑯				PROVIDE MANUFACTURERS CONSTANT SUPPLY AIR TEMPERATURE CONTROL SEQUENCE OF OPERATION WITH COOLING AND HEATING MODES AND CONSTANT SUPPLY AIR VOLUME.				⑰				PROVIDE MINIMUM 18 INCH HIGH WELDED GALVANIZED STEEL ROOF CURB WITH 1"-3# INSULATION, LINER, AND CURB GASKET. COORDINATE ROOF CURB WITH ROOF INSULATION THICKNESS, SLOPE AND STRUCTURE CONSTRUCTION. ROOF CURB HEIGHT SHALL BE MINIMUM 14" ABOVE FINISHED ROOF.				⑲				MAKEUP AIR UNIT PROVIDED BY KITCHEN EQUIPMENT VENDOR.			

AIR COOLED MINI- SPLIT SCHEDULE																																		
IDU PLAN MARK	ODU PLAN MARK	AREA SERVED	SYSTEM TYPE	MAKE	IDU MODEL NUMBER	IDU TYPE	ODU MODEL NUMBER	SEER HSFP	IDU FAN			COOLING		HEATING		REFRIGERANT CIRCUIT						ODU ELECTRICAL			COND. DRAIN CONN. (IN.)	OPER. WEIGHT		REMARKS						
									SA (CFM)	OA (CFM)	ESP (IN. W.C.)	CAPACITY		EAT DB/WB (DEG. F)	CAP. SENS. (MBH)	EAT DB/WB (DEG. F)	MAX. AMB. OPER. (DEG. F)	MIN. AMB. OPER. (DEG. F)	CAP. STEPS	SUCT. LINE (IN.)	LIQ. LINE (IN.)	REFRIG. CHARGE (LB.)	REFRIG. TYPE	MCA		MOCP	VOLTAGE (V/HZ/PH)		IDU (LB.)	ODU (LB.)				
												TOTAL (MBH)	SENS. (MBH)																					
DX-1	CU-1	128 COPY	HEAT PUMP	CARRIER	40MBCQ18	CASSETTE	38MAQB18R	20.0/10.5	420	0	0.00	16.0	13.6	80.0/67.0	18.0	68.0	122	-4	MOD.	0.375	0.250	4.30	R410	18.0	25	208/60/1	-	26	119	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰				
DX-2	CU-2	111 KIT. OFC.	HEAT PUMP	CARRIER	40MBCQ09	CASSETTE	38MAQB09R	20.0/11.2	380	0	0.00	9.0	7.7	80.0/67.0	9.0	68.0	122	-4	MOD.	0.050	0.250	3.31	R410	9.0	15	208/60/1	-	24	92	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰				
①	PROVIDE SINGLE POINT POWER CONNECTION AT ODU.				④	PROVIDE PHASE LOSS/IMBALANCE/REVERSAL PROTECTION.				⑦	PROVIDE ODU RIS ISOLATORS				⑨	MANUFACTURER SHALL PROVIDE REFRIGERANT LINE ACCESSORIES INCLUDING MOISTURE INDICATING SIGHT GLASS, TXV, LIQUID AND SUCTION LINE FULL PORT BALL SERVICE VALVES, AND REFRIGERANT CIRCUIT ACCESS/GAUGE PORTS.				⑪	PROVIDE IDU CONDENSATE PUMP WITH RESERVOIR AND OVERFLOW SENSOR.				⑭	PROVIDE FIRE ALARM SYSTEM COMPATIBLE SUPPLY AIR DUCT MOUNTED SMOKE DETECTORS FOR ALL IDU OVER 2,000 CFM SUPPLY AIRFLOW TO SHUT DOWN UNIT UPON DETECTION OF SMOKE UNDER DIVISION 26.				⑰	PROVIDE AND SUBMIT ODU AND ROOF STAND FLORIDA BUILDING CODE COMPLIANT WIND LOAD RATING CERTIFICATION, CALCULATIONS, AND UNIT-TO-ROOF STAND AND ROOF STAND-TO-ROOF SUPPORT STRUCTURE TIE-DOWN DESIGN, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.			
②	INTERCONNECTING ODU TO IDU POWER AND CONTROL WIRING BY DIVISION 26.				⑤	PROVIDE IDU CLEANABLE PERMANENT FILTERS.				⑧	REFRIGERANT PIPING SHALL BE ACR RIGID TYPE WITH LONG RADIUS ELBOW FITTINGS.				⑩	MANUFACTURER SHALL SIZE REFRIGERANT LINES AND REFRIGERANT CHARGE PRIOR TO BID.				⑫	PROVIDE WALL MOUNTED WIRED IDU CONTROLLER. CONFIGURE FOR SPACE TEMPERATURE IN LIEU OF RETURN AIR CONTROL.				⑮	PROVIDE ODU ALUMINUM EQUIPMENT ROOF STAND WITH CURRENT FLORIDA PRODUCT APPROVAL AND MIAMI-DADE NOA NUMBER.								
③	ODU/IDU DISCONNECT SWITCHES BY DIVISION 26.				⑥	PROVIDE ODU COIL GUARD.														⑬	PROVIDE BACNET BMS INTERFACE.													

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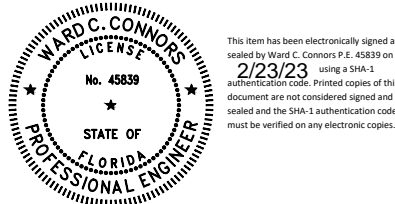
J L
R D

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Project No. 22.046
24 February 2023
Bidding, Permit and
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