

H - DEDICATED OUTSIDE AIR UNIT W/ENERGY RECOVERY SCHEDULE (ELECTRIC HEAT)																																																							
SUPPLY FAN											EXHAUST FAN											ENERGY RECOVERY														MECHANICAL COOLING				MECHANICAL REHEAT				MECHANICAL HEATING		AUXILIARY ELECTRIC HEAT				ELECTRICAL					
DESIGNATION	SERVING	SA (CFM)	ESP (IN. W.C.)	OA (CFM)	QUANTITY	HP	EXH (CFM)	ESP (IN. W.C.)	QUANTITY	HP	VENTILATION								EXHAUST				EAT				MECHANICAL COOLING		MECHANICAL REHEAT		EAT DB	CAP REQ'D (MBH)	CAPACITY KW	EAT	LAT	MCA	MOCP	VOLTAGE	PHASE	EER	COP	MANUFACTURER	SERIES	CONTROL SEQUENCE											
											SUMMER EAT	SUMMER LAT	WINTER EAT	WINTER LAT	SUMMER EAT	SUMMER LAT	WINTER EAT	WINTER LAT	DB	WB	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	DB	WB	DB	WB	DB	WB	DB	WB															DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB
DOAS-1	SERVING LOCKER ROOMS	3875	1.50	3875	1	3	5135	1.50	1	5	95.0 °F	78.0 °F	80.3 °F	73.8 °F	0.0 °F	0.0 °F	47.6 °F	36.7 °F	75.0 °F	63.0 °F	86.0 °F	66.9 °F	70.0 °F	58.0 °F	41.9 °F	41.8 °F	80.30 °F	73.8 °F	131.8	215.3	54.8 °F	54.8 °F	66.4 °F	66.3 °F	47.6 °F	120.0	79.0	47.6 °F	112.0 °F	144.0 A	150	480	3	17.3	2.6	TRANE	HORIZON QAD	B							
NOTES: 1. THE COOLING AND HEATING LOADS INDICATED ARE THE LOADS REQUIRED TO BE MET BY THE DIRECT EXPANSION (DX) COOLING COIL SECTION AND THE ELECTRIC HEATING COIL SECTION. 2. THE TOTAL EQUIVALENT COOLING AND HEATING CAPACITIES OF THE UNIT SHALL BE THE ADDITION OF THE DX COOLING LOADS AND THE ELECTRIC HEATING COIL SECTION PLUS THE CAPACITY GENERATED BY THE ENERGY RECOVERY WHEEL. 3. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT DEHUMIDIFICATION. 4. PROVIDE SCR CONTROL FOR THE ELECTRIC HEATING ELEMENT 5. PROVIDE UNIT WITH DIGITAL MODULATION COMPRESSORS. 6. PROVIDE DUCT SMOKE DETECTORS ON THE SUPPLY AND RETURN AIR DUCTS. FURNISHED UNDER DIVISION 26 AND INSTALLED UNDER DIVISION 20. 7. PROVIDE A SENSIBLE ONLY ENERGY RECOVERY WHEEL.																																																							

H - PACKAGED ROOFTOP UNIT W/ENERGY RECOVERY SCHEDULE (HEAT PUMP W/ AUXILIARY ELECTRIC HEAT)																																																				
DESIGNATION	SERVING	SUPPLY FAN										EXHAUST FAN										ENERGY RECOVERY										MECHANICAL COOLING				MECHANICAL REHEAT				AUXILIARY ELECTRIC HEATING COIL				ELECTRICAL				EER	COP	MANUFACTURER	SERIES	CONTROL SEQUENCE
		SA (CFM)	ESP (IN. W.C.)	MAX OA (CFM)	MIN OA (CFM)	QUANTITY	HP	EXH (CFM)	ESP (IN. W.C.)	QUANTITY	HP	VENTILATION				EXHAUST				EAT		COOLING COIL CAPACITY		EAT		LAT		EAT DB	CAP REQ'D (MBH)	CAPACITY KW	COIL AIR PRESSURE DROP (IN-WG)	EAT	LAT	MCA	MOCP	VOLTAGE	PHASE															
												TOTAL CAPACITY	SUMMER EAT	SUMMER LAT	WINTER EAT	WINTER LAT	SUMMER EAT	SUMMER LAT	WINTER EAT	WINTER LAT	DB	WB	DB	WB	DB	WB	DB											WB	DB	WB												
																																									DB	WB	DB	WB	DB	WB	DB					
RTU-1	GYM	10000	1.25	4200	1400	2	5	4200	1.00	1	3	95.0 °F	78.0 °F	79.0 °F	67.0 °F	0.0 °F	-2.0 °F	55.0 °F	1.0 °F	75.0 °F	63.0 °F	91.0 °F	75.0 °F	70.0 °F	-2.0 °F	14.0 °F	-4.0 °F	77 °F	65 °F	234.0 Btu/h	305.0 Btu/h	55 °F	54 °F	75 °F	62 °F	64 °F	190.0	79.0	0.05	64 °F	89 °F	170 A	175 A	480	3	13.2	2.4	TRANE	HORIZON ASHP	C		
RTU-2	GYM	10000	1.25	4200	1400	2	5	4200	1.00	1	3	95.0 °F	78.0 °F	79.0 °F	67.0 °F	0.0 °F	-2.0 °F	55.0 °F	1.0 °F	75.0 °F	63.0 °F	91.0 °F	75.0 °F	70.0 °F	-2.0 °F	14.0 °F	-4.0 °F	77 °F	65 °F	234.0 Btu/h	305.0 Btu/h	55 °F	54 °F	75 °F	62 °F	64 °F	190.0	79.0	0.05	64 °F	89 °F	170 A	175 A	480	3	13.2	2.4	TRANE	HORIZON ASHP	C		
RTU-3	GYM	10000	1.25	4200	1400	2	5	4200	1.00	1	3	95.0 °F	78.0 °F	79.0 °F	67.0 °F	0.0 °F	-2.0 °F	55.0 °F	1.0 °F	75.0 °F	63.0 °F	91.0 °F	75.0 °F	70.0 °F	-2.0 °F	14.0 °F	-4.0 °F	77 °F	65 °F	234.0 Btu/h	305.0 Btu/h	55 °F	54 °F	75 °F	62 °F	64 °F	190.0	79.0	0.05	64 °F	89 °F	170 A	175 A	480	3	13.2	2.4	TRANE	HORIZON ASHP	C		
RTU-4	GYM	10000	1.25	4200	1400	2	5	4200	1.00	1	3	95.0 °F	78.0 °F	79.0 °F	67.0 °F	0.0 °F	-2.0 °F	55.0 °F	1.0 °F	75.0 °F	63.0 °F	91.0 °F	75.0 °F	70.0 °F	-2.0 °F	14.0 °F	-4.0 °F	77 °F	65 °F	234.0 Btu/h	305.0 Btu/h	55 °F	54 °F	75 °F	62 °F	64 °F	190.0	79.0	0.05	64 °F	89 °F	170 A	175 A	480	3	13.2	2.4	TRANE	HORIZON ASHP	C		
RTU-6	OFFICES	1750	1.75	460	460	1	5	460	1.00	1	1	95.0 °F	78.0 °F	77.0 °F	65.0 °F	0.0 °F	-2.0 °F	62.0 °F	1.0 °F	76.0 °F	63.0 °F	93.0 °F	76.0 °F	70.0 °F	-2.0 °F	8.0 °F	-5.0 °F	76 °F	64 °F	49.0 Btu/h	67.0 Btu/h	50 °F	50 °F	75 °F	60 °F	68 °F	40.0	20.0	0.02	68 °F	104 °F	49 A	50 A	480	3	14.5	2.6	TRANE	HORIZON ASHP	D		
NOTES: 1. RTU-6 IS PART OF BASE BID 1 AND BASE BID 2 ONLY. 2. THE COOLING AND HEATING LOADS INDICATED ARE THE LOADS REQUIRED TO BE MET BY THE DIRECT EXPANSION (DX) COOLING COIL SECTION AND THE HEAT PUMP HEATING COIL SECTION. 3. THE TOTAL EQUIVALENT COOLING AND HEATING CAPACITIES OF THE UNIT SHALL BE THE ADDITION OF THE DX COOLING LOADS AND THE ELECTRIC HEATING COIL SECTION PLUS THE CAPACITY GENERATED BY THE ENERGY RECOVERY WHEEL. 4. PROVIDE A VARIABLE FREQUENCY DRIVE (VFD) TO CONTROL THE ENERGY RECOVERY WHEEL. 5. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT DEHUMIDIFICATION. 6. PROVIDE SCR CONTROL FOR THE ELECTRIC HEATING ELEMENT 7. PROVIDE UNIT WITH DIGITAL MODULATION COMPRESSORS. 8. PROVIDE DUCT SMOKE DETECTORS ON THE SUPPLY AND RETURN AIR DUCTS. FURNISHED UNDER DIVISION 26 AND INSTALLED UNDER DIVISION 20.																																																				

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DESIGNATION	SERVING	SUPPLY FAN				EXHAUST FAN				ENERGY RECOVERY																MECHANICAL HEATING				AUXILIARY ELECTRIC HEATING COIL				ELECTRICAL				EER	COP	MANUFACTURER	SERIES	CONTROL SEQUENCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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H - SPLIT SYSTEM HEAT PUMP SCHEDULE																						
SYSTEM DESIGNATIONS		SERVING	OUTDOOR AMBIENT TEMPERATURES		SUPPLY FAN			COOLING			HEATING			ELECTRICAL			SEER 2	HSPF 2	MANUFACTURER	SERIES (INDOOR/OUTDOOR)	CONTROL SEQUENCE	
			COOLING	HEATING	SUPPLY AIR (CFM)	ESP (IN.W.C.)	OUTSIDE AIR (CFM)	EAT DB	WB	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EAT (DB)	HEATING CAPACITY @ 5 F (MBH)	MCA	VOLTAGE	PHASE						
FCU-1	CU-1	LOCKER ROOM 139	95 °F	5 °F	450	0.40	420 CFM	76 °F	65 °F	9.3	12.9	7.9	2.2 A	208	1	20.0	10.9	MITSUBISHI/TRANE	PEAD	A		
FCU-2	CU-2	VARSITY LOCKER ROOM	95 °F	5 °F	750	0.40	705 CFM	76 °F	65 °F	20.6	27.7	17.7	2.3 A	208	1	18.5	9.1	MITSUBISHI/TRANE	PEAD	A		
FCU-3	CU-3	FACULTY LOCKER ROOM	95 °F	5 °F	450	0.40	420 CFM	76 °F	65 °F	9.2	12.8	7.9	2.2 A	208	1	20.0	10.9	MITSUBISHI/TRANE	PEAD	A		
NOTES: 1. REFRIGERANT PIPE SIZES SHALL BE RECOMMENDED BY EQUIPMENT MANUFACTURER. 2. COOLING AND HEATING CAPACITIES LISTED ARE CALCULATED REQUIRED CAPACITIES. 3. COORDINATE REFRIGERANT LENGTHS WITH MANUFACTURER'S LONG LINE REQUIREMENTS. COORDINATE LINE LENGTH REQUIREMENTS WITH FLOOR PLANS AND MANUFACTURER. 4. UNITS SHALL BE PROVIDED WITH R-410A REFRIGERANT. 5. PROVIDE MERV8 FILTER WITH AIR																						