

PACKAGED DEDICATED OUTSIDE AIR UNIT SCHEDULE																					
MARK	SERVES	DESCRIPTION	ENTHALPY WHEEL SECTION									COOLING COIL				ELECTRICAL		DESIGN BASIS	REMARKS		
			OUTSIDE AIR FAN			EXHAUST AIR FAN			NOMINAL COIL CAPACITY			MIXED COIL	COIL	FILTERS	DDAS						
			EAT DB	EAT WB	CFM	EAT DB	EAT WB	CFM	EAT DB	EAT WB	CFM				EAT DB	EAT WB	MAX. LAF			VOLTAGE	MOP
DDAS-1	CLASSROOMS	DOWNFLOW UNIT WITH NAT. GAS HEAT, HEATWHEEL, & HOT GAS REHEAT	94F	74F	1,310	0.5"	1.0	77F	64F	1,050	0.6"	1.0	6 TONS	82.5F	67.7F	55F	2" MERV 8	208V/3φ	40	ADDISON	(1)(2)(3)
DDAS-2	CLASSROOMS	DOWNFLOW UNIT WITH NAT. GAS HEAT, HEATWHEEL, & HOT GAS REHEAT	94F	74F	1,190	0.5"	1.0	77F	64F	950	0.6"	1.0	4 TONS	82.1F	67.4F	55F	2" MERV 8	208V/3φ	40	ADDISON	(1)(2)(3)
DDAS-3	CLASSROOMS	DOWNFLOW UNIT WITH NAT. GAS HEAT, HEATWHEEL, & HOT GAS REHEAT	94F	74F	1,710	0.5"	1.0	77F	64F	1,370	0.6"	1.0	6 TONS	82.5F	67.7F	55F	2" MERV 8	208V/3φ	50	ADDISON	(1)(2)(3)
DDAS-4	CLASSROOMS	DOWNFLOW UNIT WITH NAT. GAS HEAT, HEATWHEEL, & HOT GAS REHEAT	94F	74F	1,560	0.5"	1.0	77F	64F	1,200	0.6"	1.0	5 TONS	82.6F	67.7F	55F	2" MERV 8	208V/3φ	50	ADDISON	(1)(2)(3)
DDAS-5	CLASSROOMS	DOWNFLOW UNIT WITH NAT. GAS HEAT, HEATWHEEL, & HOT GAS REHEAT	94F	74F	1,560	0.5"	1.0	77F	64F	1,200	0.6"	1.0	5 TONS	82.6F	67.7F	55F	2" MERV 8	208V/3φ	50	ADDISON	(1)(2)(3)

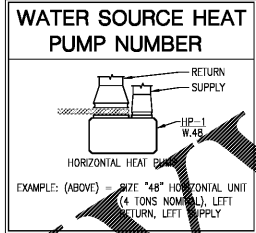
- PROVIDE UNIT WITH 12" ROOF CURB, HINGED ACCESS PANELS, HOT-GAS REHEAT COIL, THRU-BASE ELECTRICAL CONNECTION, SLOPED DRAINPAN, SMOKE DETECTOR IN SUPPLY DUCT, NON-POWERED CONVENIENCE OUTLET, DISCONNECT SWITCH AND R410 REFRIGERANT.
- FAN E.S.P., DOES NOT INCLUDE FILTERS. SIZE FAN FOR MID-LIFE FILTER.
- PROVIDE 2" FILTER RACK ON OUTSIDE AIR INTAKE AND EXHAUST AIR UPSTREAM OF HEAT WHEEL.

GAS ROOFTOP UNIT SCHEDULE																						
MARK	SERVES	NOMINAL TONS	CFM	MINIMUM OSA	E.S.P.	HP	TOTAL CAPACITY	SENSIBLE CAPACITY	COIL EAT DB	COIL EAT WB	COIL LAT DB	COIL LAT WB	CFM	OUTPUT CAPACITY	COIL EAT DB	GAS HEAT			FILTERS	VOLTAGE	DESIGN BASIS	REMARKS
																LAT	MIN. PRESS.	MAX. PRESS.				
																DB	WB	WB				
RTU-1	ADMIN	4	1,600	240	0.5"	0.75	49 MBH	40 MBH	79.6F	65.6F	55F	55F	1,600	48 MBH	56.8F	85F	6" W.C.	10.5" W.C.	2" MERV 8	208V/3φ	LENNOX	(1)(2)(3)(4)(5)(6)(7)
RTU-2	CAFETERIA	17.5	6,000	900	0.5"	3.0	204 MBH	155 MBH	79.6F	65.6F	55F	55F	6,000	180 MBH	56.8F	85F	6" W.C.	10.5" W.C.	2" MERV 8	208V/3φ	LENNOX	(1)(2)(3)(4)(5)(6)(7)
RTU-3	CAFETERIA	-	3,400	510	0.5"	-	110 MBH	90 MBH	79.6F	65.6F	55F	55F	3,400	100 MBH	56.8F	85F	6" W.C.	10.5" W.C.	2" MERV 8	208V/3φ	LENNOX	(1)(2)(3)(4)(5)(6)(7)
RTU-4	ADMIN	8.5	3,600	270	0.75"	-	104 MBH	86 MBH	78.3F	64.8F	55F	55F	3,600	93 MBH	60.9F	85F	6" W.C.	10.5" W.C.	2" MERV 8	208V/3φ	LENNOX	(1)(2)(3)(4)(5)(6)(7)
RTU-5	MEDIA CENTER	12.5	4,000	730	0.5"	3.0	148 MBH	106 MBH	79.6F	65.6F	55F	55F	4,000	130 MBH	55.0F	85F	6" W.C.	10.5" W.C.	2" MERV 8	208V/3φ	LENNOX	(1)(2)(3)(4)(5)(6)(7)

- AMBIENT DESIGN CONDITIONS: SUMMER 94F DB/ 74F WB, WINTER 10F. SUMMER RETURN 77F DB/ 64F WB, WINTER RETURN 65F DB/ 30R/31H
- PROVIDE INSULATED FACTORY CURB WITH SERVICE PLATFORM, THRU-BASE SINGLE POINT POWER CONNECTION WITH FACTORY BREAKER/DISCONNECT, ENTHALPY ECONOMIZER WITH POWERED EXHAUST.
- PROVIDE OPTIONAL DEHUMIDIFICATION CONTROL WITH HOT GAS REHEAT.
- PROVIDE MODULATING NATURAL GAS HEAT.
- PROVIDE TWO STAGE COMPRESSOR.
- PROVIDE UNIT CONTROL OPTIONS TO ACCOMMODATE DEMAND CONTROL VENTILATION OPERATION.
- PROVIDE FACTORY INSTALLED SUPPLY SIDE SMOKE DETECTOR.

WATER SOURCE HEAT PUMP SIZING SCHEDULE														
SIZE	TYPE	NOMINAL TONS	CFM	EXT. S.P.	FAN H.P.	COOLING CAPACITY TOTAL MBH	SENSIBLE MBH	HEATING CAPACITY MBH	GPM	INS&R PIPE	VOLTAGE/φ	MAX WPD	DESIGN BASIS	REMARKS
18	HORIZONTAL	1.5	600	0.35"	1/3	17.4	13.4	22.3	4.5	3/4"	208V/3φ	7.9'	CLIMATE MASTER	(1)(2)(3)(4)
24	HORIZONTAL	2	800	0.35"	1/3	23.7	18.2	28.5	6.0	3/4"	208V/3φ	10.7'	CLIMATE MASTER	(1)(2)(3)(4)
30	HORIZONTAL	2.5	1000	0.35"	1/3	28.1	23.6	35.1	7.5	3/4"	208V/3φ	12.8'	CLIMATE MASTER	(1)(2)(3)(4)
36	HORIZONTAL	3	1200	0.35"	1/2	34.5	27.3	45.2	9.0	3/4"	208V/3φ	12.5'	CLIMATE MASTER	(1)(2)(3)(4)
42	HORIZONTAL	3.5	1350	0.35"	1/2	40.1	33.6	52.7	10.5	3/4"	208V/3φ	14.0'	CLIMATE MASTER	(1)(2)(3)(4)

- HFC 410A REFRIGERANT, ARI CONDITIONS: COOLING - 80.6F DB/66.2F WB EAT, 90F EWT; HEATING - 68' DB/59F WB EAT, 70F EWT.
- PROVIDE WITH FACTORY-MOUNTED CONDENSATE OVERFLOW SWITCH, 2" PLEATED 30% EFFICIENCY FILTERS.
- CONTRACTOR AND MANUFACTURER TO VERIFY LEFT-HAND/RIGHT-HAND RETURN OPENINGS AND TOP/BACK DISCHARGE OPENINGS AS SHOWN ON DRAWINGS.
- PROVIDE EXTENDED RANGE OPERATION OPTION WITH HEATING DOWN TO 40F EWT AND COOLING UP TO 110F EWT.



GAS HOT WATER BOILER SCHEDULE													
MARK	SERVES	TYPE	IBR CAPACITY				GAS PRESS. LIMITS		WATER PRESS. LOSS		VOLTAGE	DESIGN BASIS	REMARKS
			GPM	EWT	LWT	INPUT MBH	OUTPUT MBH	MIN. INLET	MAX. INLET	INLET			
B-1	W/SHIP LOOP	NATURAL GAS	50	65F	105F	1,050	987	3.5" W.C.	14" W.C.	2.6 FT.	120V/1φ	PATTERSON-KELLY MACH C-1050	(1)(2)

- CONDENSING HIGH-EFFICIENCY BOILER.
- FURNISH WITH NON-FUSED DISCONNECT SWITCH.

PUMP SCHEDULE										
MARK	TYPE	SERVES	GPM	DEV. HEAD (FT)	HP	MAX EFFICIENCY	RPM	VOLTAGE	DESIGN BASIS	REMARKS
P-1	END SUCTION	TEMPERED WATER	390	85	15	84%	1,750	208V/3φ	B&G e-1510	(1)(2)
P-2	END SUCTION	TEMPERED WATER	390	85	15	84%	1,750	208V/3φ	B&G e-1510	(2)
P-3	END SUCTION	COOLING TOWER	390	50	75%	84%	1,750	208V/3φ	B&G e-1510	(2)(3)
P-4	END SUCTION	COOLING TOWER	390	75	75%	84%	1,750	208V/3φ	B&G e-1510	(2)(3)
P-B1	IN-LINE	BOILER	50	30	1.0	82%	1,750	208V/3φ	B&G e-60	(1)

- HIGH EFFICIENCY MOTOR
- INVERTER DUTY MOTOR
- 50% MINIMUM FLOW

PLATE HEAT EXCHANGER SCHEDULE											
MARK	SERVES	TEMPERED WATER				CONDENSER WATER				DESIGN BASIS	REMARKS
		EWT	LWT	GPM	PRESS. LOSS	EWT	LWT	GPM	PRESS. LOSS		
HX-1	CLASSROOMS	97F	87F	390	10 FEET	85F	95F	390	10 FEET	SONDEX	(1)

- PROVIDE STRAINER ON INLET.

COOLING TOWER SCHEDULE												
MARK	SERVES	NOMINAL TONNAGE	NO. CELLS	TEMPERED WATER			WET BULB	BASIN HEATER	FAN HP	VOLTAGE	DESIGN BASIS	REMARKS
				EWT	LWT	GPM						
CT-1	CLASSROOMS	130	1	95F	85F	390	78F	5 KW	-	208V/3φ	EVAULT 4000 SERIES	(1)(2)(3)

- PROVIDE INVERTER DUTY MOTOR FOR USE WITH VARIABLE FREQUENCY DRIVE.
- ACOUSTICAL FAN OPTION, SEE SPEC.
- TOWER MUST BE RATED TO ACCEPT 50% MINIMUM WATER FLOW AT REDUCED LOADS.

FAN SCHEDULE										
MARK	TYPE	SERVES	CFM	E.S.P.	RPM	VOLTAGE	DESIGN BASIS	REMARKS		
EF-1	ROOF-MOUNTED	TOILET	150	0.30"	1/100	1115	115V/1φ	GREENHECK CUE-070-VG	1, 2, 4	
EF-2	ROOF-MOUNTED	FET	150	0.20"	1/100	1300	115V/1φ	GREENHECK G-060-F	1, 3, 4	
EF-3	ROOF-MOUNTED	TOILET	150	0.20"	1/100	1300	115V/1φ	GREENHECK G-060-F	1, 3, 4	
EF-4	ROOF-MOUNTED	TOILET	150	0.20"	1/100	1300	115V/1φ	GREENHECK G-060-F	1, 3, 4	

- DIRECT DRIVE WITH LINE VOLTAGE SPEED CONTROLLER, DISCONNECT SWITCH.
- FAN CONTROLLED BY GAS OCCUPANCY SCHEDULE.
- FAN CONTROLLED BY ROOM LIGHT SWITCH.
- ROOF CURB, GROUND DAMPER AND DISCONNECT.



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Revisions:		

HVAC AND ROOFING RENOVATIONS FOR
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