

HYDRONIC PUMP SCHEDULE														
TAG	SYSTEM	MFR.	MODEL	FLANGE SIZE	TYPE	PUMPED FLUID	PERFORMANCE		ELECTRICAL COORDINATION					NOTES
							GPM	HEAD	MOTOR HP	VOLTS/P H (60 Hz.)	VFD FURN. BY	DISC. SWITCH FURN BY	NOTES	
P-1	ERU HW COIL	TACO	00e 3452	1-1/2"	INLINE CARTRIDGE	WATER	15	15	1/4	115 /1	INTEGRAL ECM	DIV 26		

NOTES:
BUILT IN START-UP CIRCUIT

SUPPLY & EXHAUST AIR TERMINAL SCHEDULE													
SERVES	TRANE MODEL	INLET SIZE	NOMINAL OUTLET SIZE	SUPPLY CFM MAX	SUPPLY CFM MINIMUM	EXHAUST CFM MAX	EXHAUST CFM MINIMUM	MAX RAD. NC	MAX DISCH. NC	APD AT MAX CFM	APD		
											25	25	
SAV-01	0 ART CLASSROOM	VCCF	10	14"x12"	750	205	-----	-----	25	25	0.02"		
SAV-02	0 COMMON AREA	VCCF	8	11"x 10"	400	400	-----	-----	25	25	0.02"		
SAV-03	0 INNOVATION	VCCF	10	14"x12"	500	250	-----	-----	25	25	0.02"		
SAV-04	CORRIDOR 009	VCCF	8	11"x 10"	300	300	-----	-----	25	25	0.02"		
SAV-11	1 K-1	VCCF	10	14"x12"	905	305	-----	-----	25	25	0.02"		
SAV-12	1 LOBBY	VCCF	8	11"x 10"	420	135	-----	-----	25	25	0.02"		
SAV-13	1 EC-K1 SHARED	VCCF	6	10"x 8"	240	120	-----	-----	25	25	0.02"		
SAV-14	1 RESOURCE LIBRARY	VCCF	8	11"x 10"	470	250	-----	-----	25	25	0.02"		
SAV-15	SHARED CLASSROOM 121	VCCF	6	10"x 8"	185	50	-----	-----	25	25	0.02"		
SAV-16	EC CLASSROOMS	VCCF	10	14"x12"	810	440	-----	-----	25	25	0.02"		
SAV-21	2-2-3 CLASSROOM	VCCF	10	14"x12"	940	300	-----	-----	25	25	0.02"		
SAV-22	2 SOLARIUM - UPPER	VCCF	6	10"x 8"	245	195	-----	-----	25	25	0.02"		
SAV-23	4-5 CLASSROOM 211	VCCF	6	10"x 8"	210	60	-----	-----	25	25	0.02"		
SAV-24	4-5 CLASSROOM 215 F, 215G	VCCF	6	10"x 8"	160	80	-----	-----	25	25	0.02"		
SAV-25	4-5 CLASSROOM	VCCF	10	14"x12"	975	295	-----	-----	25	25	0.02"		
EAV-01	0 ART CLASSROOM	VCCF	10	14"x12"	750	3385	-----	-----	825	300	25	25	0.02"
EAV-02	0 COMMON AREA	VCCF	8	11"x 10"	-----	-----	-----	-----	475	475	25	25	0.02"
EAV-03	0 INNOVATION	VCCF	10	14"x12"	-----	-----	-----	-----	500	210	25	25	0.02"
EAV-11	1 K-1	VCCF	10	14"x12"	-----	-----	-----	-----	900	300	25	25	0.02"
EAV-12	1 CUBBIES - LOBBY	VCCF	8	11"x 10"	-----	-----	-----	-----	380	190	25	25	0.02"
EAV-13	1 EC-K1 SHARED	VCCF	6	10"x 8"	-----	-----	-----	-----	180	90	25	25	0.02"
EAV-14	1 RESOURCE LIBRARY	VCCF	8	11"x 10"	-----	-----	-----	-----	470	250	25	25	0.02"
EAV-15	SHARED CLASSROOM 121	VCCF	6	10"x 8"	-----	-----	-----	-----	115	50	25	25	0.02"
EAV-16	EC CLASSROOMS/TOILETS	VCCF	10	14"x12"	-----	-----	-----	-----	780	390	25	25	0.02"
EAV-21	2-2-3 CLASSROOM	VCCF	10	14"x12"	-----	-----	-----	-----	930	295	25	25	0.02"
EAV-22	UPPER LANDING	VCCF	8	11"x 10"	-----	-----	-----	-----	420	210	25	25	0.02"
EAV-23	4-5 CLASSROOM 211	VCCF	8	11"x 10"	-----	-----	-----	-----	300	50	25	25	0.02"
EAV-24	4-5 CLASSROOM	VCCF	10	14"x12"	-----	-----	-----	-----	800	505	25	25	0.02"

BAS POINTS LIST												
POINT NAME	DEVICE	AI	AO	DI	DO	FAL POSITION	ALARM	NOTE				
ENERGY RECOVERY VENTILATOR - ERV-1								UNIT HAS SELF CONTAINED DDC CONTROLS - SEE 237200				
START STOP	WIRE TO ERV CONTROLLER					X						
UNIT CONTROL - FANS, DAMPERS, TEMPS, ETC	BACNET INTERFACE						CLOSED	MONITOR & CONTROL PER SPEC 237200				
FAULT	WIRE TO ERV CONTROLLER					X		FAULT				
DUCT PRESSURE - TYP FOR SF & EF	DUCT PRESSURE SENSOR	X										
FAN STATUS - TYP FOR SF & EF	CURRENT SENSOR					X		FLOW LOSS				
VFD START/STOP - TYP FOR SF & EF	VFD					X						
VFD SPEED - TYP FOR SF & EF	VFD					X		LAST				
VFD AMPS - TYP FOR SF & EF	VFD					X						
VFD FAULT - TYP FOR SF & EF	VFD					X		FAULT				
SUPPLY DUCT SMOKE	DUCT SMOKE DETECTOR					X		SMOKE				
HOT WATER COIL	2-WAY MODULATING VALVE					X		OPEN				
HOT WATER COIL PUMP	PUMP P-1					X						
HOT WATER COIL PUMP STATUS	PUMP RELAY CONTACT					X		FAIL				
HWS TEMP TO HEATING COIL	TEMP SENSOR	X										
FREEZE STAT	FREEZE STAT					X						
SUPPLY AIR DISCHARGE TEMP	DUCT TEMP SENSOR	X						HI & LO				
RETURN AIR TEMP	DUCT TEMP SENSOR	X										
OUTSIDE AIR TEMPERATURE								USE EXISTING BAS OA TEMP READING				
VAV BOXES												
AIRFLOW	VAV BOX INLET FLOW SENSOR	X						LAST				
AIRFLOW SETTING	VAV BOX DAMPER					X		LAST				
SPACE CO2 LEVEL	WALL CO2 SENSOR	X										
								PROVIDE BACNET INTERFACE				
VRF SYSTEMS												
SYSTEM CONTROL	BACNET INTERFACE							MONITOR & CONTROL PER SPEC 238126				
								VRF CONTROL WIRING BY MECHANICAL CONTRACTOR.				
CABINET UNIT HEATERS												
SPACE TEMP	WALL TEMP SENSOR	X						HI & LO				
VALVE POSITION	2-WAY VALVE					X		OPEN				
FAN ON - OFF	UNIT HEATER FAN					X						
FAN CONVECTORS - SEE 238239	STAND ALONE CONTROL							TEST ANC CHECK FOR PROPER OPERATION				
DUCTLESS SPLIT												
SPACE TEMPERATURE		X						HI & LO				
DUCTLESS SPLIT COOLING	DUCTLESS SPLIT							MONITOR MFR WALL THERMOSTAT				
BTU METER - SEE 230900												
ENERGY RATE	BTU METER	X						PROVIDE IN HOT WATER MAIN FROM SILLS				
FLOW RATE	BTU METER	X										
HWS TEMP	BTU METER	X										
HWR TEMP	BTU METER	X										
DHW HEATING												
DHW TEMPERATURE, DOWNSTREAM OF TMV	TEMP SENSOR	X						HIGH				
DHW RECIRC PUMP ENABLE	NO BAS INTERFACE					X		TACO SMART-PLUS DHW RECIRC. PUMP PER 221119				
FANS - INTERLOCK												
KILN CONTACT	KILN					X		WIRE TO KILN				
ELEVATOR SUMP PUMP												
ALARM	PUMP ALARM CONTACT					X		FAULT 221429				

VARIABLE REFRIGERANT VOLUME (VRV) FAN COIL UNIT SCHEDULE																			
TAG	AREA SERVED	DAIKIN MODEL	NOM. TONS	UNIT CONFIG.	COOLING BTUH	HEATING BTUH	CFM	ESP	REFRIGERANT			ELECTRICAL			PHYSICAL				
									TYPE	LIQUID PIPE SIZE	GAS PIPE SIZE	COND PIPE SIZE, OD	V-PH-Hz	MCA	MAX FUSE SIZE	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)	NET WEIGHT (LBS)
CU-1	WEST WING																		
HP-1.1	ART STUDIO	FXMQ48PBVJU	4	CONCEALED DUCTED	48,000	54,000	1,300	0.5"	R-410A	3/8"	5/8"	1-1/4"	208-1-60	3.4	15A	55-1/8"	11-3/16"	27-9/16"	102
HP-1.2	K-1	FXMQ72MMJU	6	CONCEALED DUCTED	72,000	81,000	1,900	0.5"	R-410A	3/8"	3/4"	1-1/4"	208-1-60	2.9	15A	54-3/8"	18-1/8"	43-5/16"	302
HP-1.3	2-3 CLASS	FXMQ72MMJU	6	CONCEALED DUCTED	72,000	81,000	1,900	0.5"	R-410A	3/8"	3/4"	1-1/4"	208-1-60	2.9	15A	54-3/8"	18-1/8"	43-5/16"	302
CU-2	EAST WING																		
HP-2.1	INNOVATION	FXMQ72MMJU	4	CONCEALED DUCTED	72,000	81,000	1,900	0.5"	R-410A	3/8"	3/4"	1-1/4"	208-1-60	2.9	15A	54-3/8"	18-1/8"	43-5/16"	302
HP-2.2	RESOURCE LIBRARY	FXMQ48PBVJU	4	CONCEALED DUCTED	48,000	54,000	1,300	0.5"	R-410A	3/8"	5/8"	1-1/4"	208-1-60	3.4	15A	55-1/8"	11-3/16"	27-9/16"	102
HP-2.3	121 SHARED CLASSROOM	FXZQ18MJUJ	1.5	CEILING CASSETTE	18,000	21,000	490	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.9	15A	22-5/8"	11-1/4"	22-5/8"	42
HP-2.4	4-5 CLASSROOM 211	FXZQ18MJUJ	1.5	CEILING CASSETTE	18,000	21,000	490	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.9	15A	22-5/8"	11-1/4"	22-5/8"	42
HP-2.5	201A CUBBIES	FXMQ30PBVJU	2.5	CONCEALED DUCTED	30,000	34,000	950	0.5"	R-410A	3/8"	5/8"	1-1/4"	208-1-60	2.8	15A	55-1/8"	11-3/16"	27-9/16"	102
HP-2.6A	COMMON AREA	FXZQ15MJUJ	1.25	CEILING CASSETTE	15,000	17,500	380	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.8	15A	22-5/8"	11-1/4"	22-5/8"	42
HP-2.6B	COMMON AREA	FXZQ15MJUJ	1.25	CEILING CASSETTE	15,000	17,500	380	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.8	15A	22-5/8"	11-1/4"	22-5/8"	42
HP-2.7	EC-K1 SHARED	FXZQ18MJUJ	1.5	CEILING CASSETTE	18,000	21,000	490	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.9	15A	22-5/8"	11-1/4"	22-5/8"	42
CU-3	LOBBY AREAS																		
HP-3.1	101 LOBBY	FXMQ48PBVJU	4	CONCEALED DUCTED	48,000	54,000	1,300	0.5"	R-410A	3/8"	5/8"	1-1/4"	208-1-60	3.4	15A	55-1/8"	11-3/16"	27-9/16"	102
HP-3.2	212 SPANISH OFFICE	FXAQ18PVJU	1	WALL MOUNTED	12,000	13,500	290	0"	R-410A	1/4"	1/2"	11/16"	208-1-60	0.4	15A	31-1/4"	11-3/8"	9-1/4"	26
HP-3.3	201 UPPER LANDING	FXMQ24PBVJU	2	CONCEALED DUCTED	24,000	27,000	680	0.5"	R-410A	3/8"	5/8"	1-1/4"	208-1-60	1.8	15A	39-3/8"	11-3/16"	27-9/16"	80
HP-3.4	103 OFFICE	FXZQ09MJUJ	0.75	CEILING CASSETTE	9,500	21,000	490	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.9	15A	22-5/8"	11-1/4"	22-5/8"	42
HP-3.5	4-5 CLASS 215F	FXZQ18MJUJ	1.5	CEILING CASSETTE	18,000	21,000	490	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.9	15A	22-5/8"	11-1/4"	22-5/8"	42
HP-3.6	4-5 CLASS 215G	FXZQ18MJUJ	1.5	CEILING CASSETTE	18,000	21,000	490	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.9	15A	22-5/8"	11-1/4"	22-5/8"	42
CU-4	FOUNDERS																		
HP-4.1	114A EC CLASSROOM	FXZQ18MJUJ	1.5	CEILING CASSETTE	18,000	21,000	490	0"	R-410A	1/4"	1/2"	1-1/32"	208-1-60	0.9	15A	22-5/8"	11-1/4"	22-5/8"	42
HP-4.2	114B EC CLASSROOM	FXZQ18MJUJ	1.5	CEILING CASSETTE	18,000	20,000	490	0"	R-410A	1/4"	1/2"	1-							