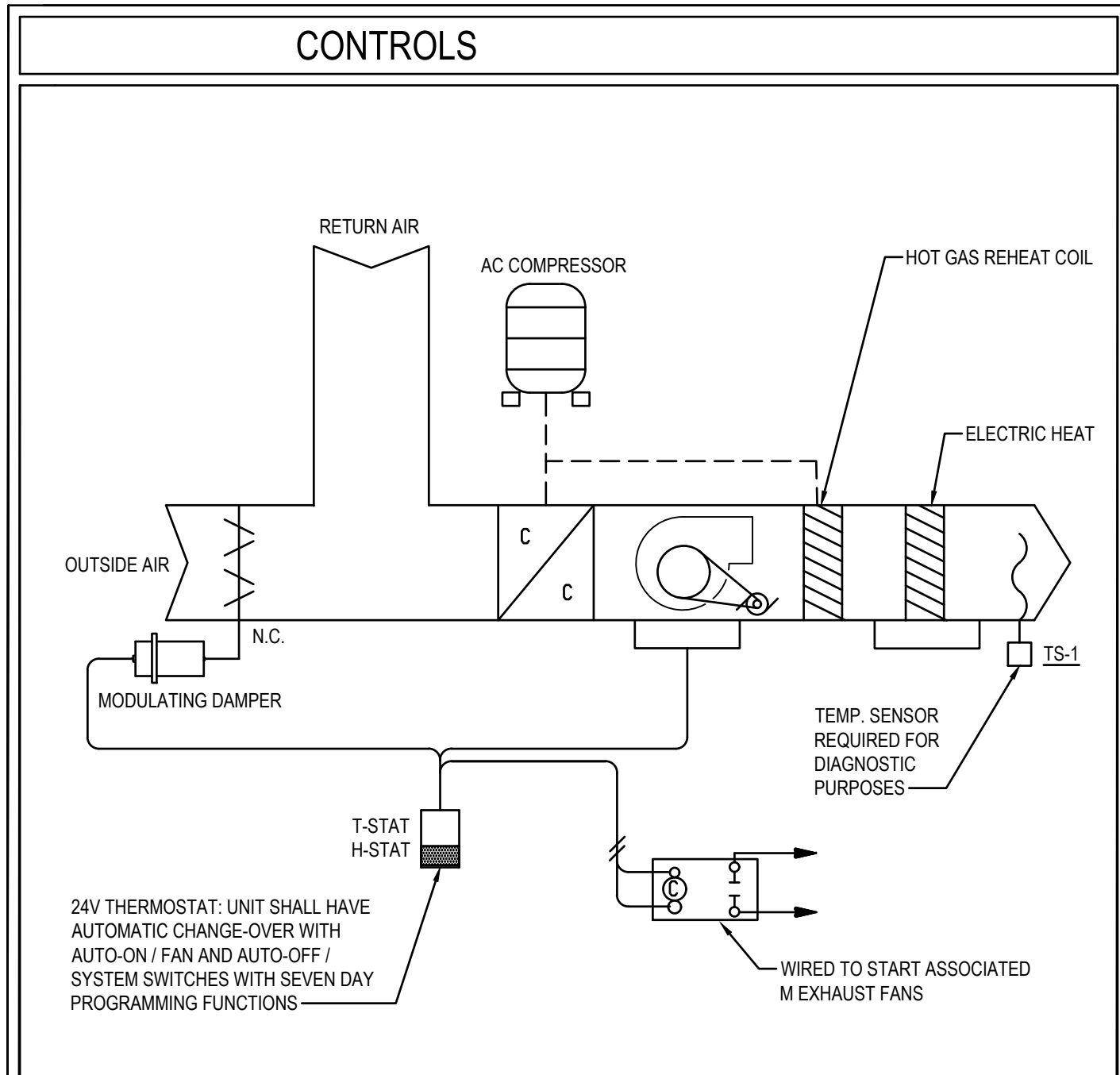


UNIT NO.	SELECTION BASED ON			EVAPORATOR FAN DATA						COIL DATA						CONDENSER DATA				COMPRESSOR DATA				UNIT DATA				NOTES				
	MANUFACTURER	MODEL	SERVING	TOTAL CFM	OUTSIDE AIR CFM	EXT. STATIC P. IN H2O	MOTOR DATA			COOLING COIL DATA			HOT GAS REHEAT COIL DATA			ELECTRIC HEATER DATA			COND. FAN MOTOR			ELECTRICAL DATA										
							FAN QNTY	HP (EACH)	FAN FLA (EACH)	GROSS TOTAL COOLING CAP. (MBH)	CC-LAT °F (DB)	°F (WB)	HOT GAS REHEAT COIL LAT (°F-DB)	COIL CAPACITY (MBH)	HOT GAS REHEAT COIL LAT (°F-DB)	ELECTRIC HEATER SIZE (KW)	ELECTRIC HEAT MAX LAT (°F)	CONTROL / STAGING	COND. EAT F NO.	HP EACH	FAN FLA EACH	QTY	RLA	EER/SEER @ AHRI	REFRIG TYPE	UNIT WEIGHT (LBS)	VOLT		PH	MCA	MOCP	
RTU-1	AAON	RN0830C01111	RETAIL AND OFFICE	2700	650	0.5	1	2	3.4	98.24	54.8	54.7	YES	44.0	72.0	10	85.0	1 STAGE	95	1	3/4	1.8	1	12.2	12.1/12.8	R-410A	1125	480	3	20	30	1-5
RTU-2	AAON	RND1330EB912A	MESSAGE AND BOH	3525	1200	0.75	1	3	4.8	152.2	52.2	52.14	YES	75.0	72.0	20	85.0	SCR - MODULATING	95	2	3/4	1.8	2	9.7/10.6	12.1/14.4	R-410A	1843	480	3	36	40	1-5

NOTES:
 1. UNIT SHALL BE PROVIDED WITH MANUFACTURER HUMIDITY CONTROL OPTIONS. THIS INCLUDES A HOT GAS REHEAT COIL AND CONTROLS CAPABLE OF DEHUMIDIFICATION SEQUENCES.
 2. UNIT SHALL BE PROVIDED WITH SINGLE POINT POWER.
 3. UNIT SHALL BE MOUNTED ON EXISTING CURB. CONTRACTOR SHALL EXAMINE THE SITE BEFORE COMMENCING WORK AND PROVIDE A CURB ADAPTOR AS REQUIRED.
 4. UNIT SHALL BE PROVIDED WITH AN OUTSIDE AIR INTAKE HOOD WITH INTEGRAL MODULATING DAMPER.
 5. UNIT SHALL BE PROVIDED WITH A CONVENIENCE OUTLET.
 6. UNIT SHALL HAVE 6-ROW EVAPORATOR COIL.



PROGRAMMING THE FOLLOWING FUNCTIONS FOR OCCUPANCY SCHEDULE AND SET-POINTS:

SCHEDULE-HOURS OF OPERATION (OCCUPIED) - OTHER HOURS UNOCCUPIED (ADJUSTABLE)

SETPOINTS: SUMMER COOLING 75 DEG.F, 55% RH (OCCUPIED)
 SETPOINTS: SUMMER COOLING 78 DEG.F, 55% RH (UNOCCUPIED)
 SETPOINTS: WINTER HEATING 70 DEG.F (OCCUPIED)
 SETPOINTS: WINTER HEATING 65 DEG.F (UNOCCUPIED)

THE HONEYWELL T7350D (OR EQUAL) THERMOSTAT AND HUMIDISTAT SHALL CONTROL THE STAGES OF COOLING AND HEATING IN ORDER TO MAINTAIN THE PROGRAMMABLE COOLING, HEATING AND HUMIDITY SETPOINTS. THE HEATING AND COOLING SETPOINTS SHALL BE INDIVIDUALLY ADJUSTABLE FOR BOTH THE OCCUPIED, UNOCCUPIED AND STANDBY PERIODS. THE T7350D SHALL HAVE PROGRAMMABLE OCCUPIED AND UNOCCUPIED TIME SCHEDULES, AND HOLIDAY SCHEDULES. THAT WILL TURN ON AND OFF ITS EQUIPMENT. THERE SHALL BE A MANUAL OVERRIDE BUTTON THAT WILL ALLOW FOR A 1-5 HOUR OVERRIDE OF THE EQUIPMENT TO ITS OCCUPIED SETPOINTS. PROVIDE 48 HOUR BACKUP FROM POWER FAILURE. THE T7350D SHALL MONITOR THE DISCHARGE AIR TEMPERATURE OF THE UNIT USING A CT041 DUCT TEMPERATURE SENSOR. THE T7350D DISPLAY AND KEYBOARD WILL ALLOW VISUAL OBSERVATION OF ALL PARAMETERS. THE KEYPAD HAS THE CAPABILITY TO BE LOCKED OUT IN 2 MODES, TOTAL LOCKOUT, AND SCHEDULE/SETPOINT CHANGES ONLY.

THE THERMOSTAT SHALL HAVE A MINIMUM DEADBAND OF 2°F. NO MECHANICAL HEATING OR COOLING SHALL OPERATE WITHIN THIS DEADBAND. SPACE TEMPERATURE DEVIATION ABOVE THE COOLING SETPOINT OR BELOW THE HEATING SETPOINT SHALL GENERATE A DEMAND SIGNAL TO CONTROL THE SYSTEM AS FOLLOWS:

A. HEATING: THE THERMOSTAT SHALL CONTROL THE HEATING OUTPUT BASED ON THE DEMAND SIGNAL COMMUNICATED FROM THE THERMOSTAT PROGRAM. THE THERMOSTAT SHALL ENERGIZE HEATING EQUIPMENT WHEN SPACE TEMPERATURE FALLS BELOW HEATING SETPOINT.

B. COOLING: THE THERMOSTAT SHALL CONTROL THE COOLING OUTPUT BASED ON THE DEMAND SIGNAL COMMUNICATED FROM THE THERMOSTAT PROGRAM. THE THERMOSTAT SHALL ENERGIZE COOLING EQUIPMENT WHEN SPACE TEMPERATURE EXCEEDS COOLING SETPOINT.

C. DEHUMIDIFICATION: (ONLY APPLICABLE FOR UNIT WITH HOT GAS REHEAT) THE THERMOSTAT SHALL PROVIDE A MODE FOR DEHUMIDIFICATION BASED ON ITS HUMIDITY HIGH LIMIT SETPOINT OF 60% RH (ADJUSTABLE FROM 30-90% RH).
 a. UPON A RISE IN SPACE HUMIDITY ABOVE THE SETPOINT (ADJ.) THE UNIT SHALL ENGAGE THE HUMIDITY CONTROL MODULE (THE HOTGAS REHEAT COIL) TO PROVIDE SIMULTANEOUS COOLING WITH HOTGAS REHEAT TO DELIVER DRY SPACE NEUTRAL AIR.

D. HEATING SETBACK AND COOLING SETUP: INITIATION OF HEATING SETBACK OR COOLING SETUP FOR EACH OF 7 OR 365 DAYS SHALL BE PROVIDED BY A PROGRAMMED TIME SCHEDULE MANUALLY ENTERED INTO THE THERMOSTAT.

E. INTERLOCKS: INTERLOCK THE ASSOCIATED EXHAUST FANS AND OUTSIDE AIR DAMPER WITH THE THERMOSTAT TIME CLOCK ON/OFF OUTPUT. THE EXHAUST FANS SHALL ENGAGE AND THE OUTSIDE AIR DAMPER SHALL OPEN DURING OCCUPIED TIMES ONLY.

AT TIME OF SUBSTANTIAL INSPECTION, THE MECHANICAL OR CONTROL CONTRACTOR SHALL DEMONSTRATE TO ENGINEER THE ABOVE PROGRAMMING HAS BEEN PROVIDED.

PRIOR TO TURNING OVER BUILDING TO OWNER/USERS, TRAIN THE OWNER/USERS ON HOW TO USE AND ADJUST THE THERMOSTAT/HUMIDISTAT AND PROGRAMMING FEATURES.

MIXED AIR SYSTEM (RTU-1 AND RTU-2)
 THERMOSTATICALLY CONTROLLED UNITARY SYSTEMS A

MARK	CFM	NECK / NOM. DUCT SIZE	DESCRIPTION
A	0-125 126-225 226-350 351-500	6" 8" 10" 12"	SERVICE SUPPLY BASIS OF DESIGN: TITUS TMS-AA MATERIAL: ALUMINUM OPPOSED BLADE DAMPER: NO COLOR: PER ARCHITECTURAL PLANS FACE SIZE: 24X24 UNLESS SHOWN AS 12X12 ON PLAN
B	0-110 111-220 221-350 351-530 531-730 731-970 971-1000 1001-1540 1541-1890	AS SHOWN ON PLAN	SERVICE RETURN/EXHAUST BASIS OF DESIGN: TITUS 50F MATERIAL: ALUMINUM OPPOSED BLADE DAMPER: NO COLOR: PER ARCHITECTURAL PLANS PATTERN: EGGRATE FACE SIZE: 24X24 UNLESS SHOWN AS 12X12 ON PLAN BACK PAN: 22X22X3

NOTES:
 1. AIR DISTRIBUTION DEVICES WITHIN ACUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH BORDER FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER TYPE FOR SURFACE MOUNTING.
 2. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24X24 GRID ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN. SECURE EACH DEVICE TO CEILING GRID WITH FIELD-FABRICATED SUPPORTS.
 3. MAX NC AT ANY AIR DEVICE SHALL BE NC-20.

UNIT NO.	SECTION BASED ON			UNIT DATA				CONDENSER FAN MOTOR				COMPRESSOR DATA				UNIT ELECTRICAL DATA						
	MANUFACTURER	MODEL	SERVING	NOM CAP	SEER	COND. EAT F	REFRIG TYPE	NO.	HP	VOLT	PH	QTY	STEPS	VOLT	PH	RLA	LRA	VOLT	PH	FAN FLA	MCA	MOCP
CU-1	MITSUBISHI	PUY-A12NH4	SS-1	12.0	15.3	95	R-410A	1	-	208	1	1	1	208	1	12.0	14.0	208	1	0.35	13	15

NOTE: UNIT SHALL BE PLACED ON ROOF. MOUNT ON PRE-ENGINEERED ROOF RACK SYSTEM AND TIE DOWN TO MEET ALL APPLICABLE CODES AND STANDARDS. SEE STRUCTURAL DOCUMENTS.

UNIT NO.	SELECTION BASED ON			CONDENSER FAN DATA				UNIT ELECTRICAL DATA						
	MANUFACTURER	MODEL	SERVING	TOTAL CFM	WATTS	SPEED	VOLT	PH	SEER @ AHRI	VOLT	PH	FAN FLA	MCA	MOCP
SS-1	MITSUBISHI	PKA-A12H4	OFFICE SERVER CLOSET	370	30	MID	208	1	15.3	208	1	0.33	13	20

NOTES:
 1. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
 2. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAX REFRIGERANT LINE LENGTH. MAX LINE LENGTH 100' MAX TOTAL, 50' MAX ELEVATION.
 3. ALL UNITS SHALL BE PROVIDED WITH A CONDENSATE PUMP EQUAL TO "LITTLE GIANT #VCL-14UL".

MARK	MANUFACTURER	MODEL	SERVING	TYPE	CFM	EXTERNAL STATIC PRESSURE (IN. W.G.)	SONES	FAN RPM	MOTOR DATA				NOTES
									HP	RPM	VOLT	PH	
EF-1	GREENHECK	G-098-VG	DRESSING ROOMS AND RESTROOMS	ROOF MOUNTED DD	850	0.4	7.5	1389	1/4	1725	120	1	1,2,3,4,8
EF-2	GREENHECK	G-098-VG	BACK OF HOUSE RESTROOMS AND SPA	ROOF MOUNTED DD	450	0.4	6.8	1287	1/4	1725	120	1	1,2,3,4,8
EF-3	GREENHECK	G-097-VG	MANIPEDI	ROOF MOUNTED DD	250	0.4	8.2	1511	1/4	1725	120	1	1,2,3,4,8

REMARKS:
 1. PROVIDE WITH BACKDRAFT DAMPER
 2. PROVIDE WITH DISCONNECT SWITCH
 3. PROVIDE WITH SCR SPEED CONTROLLER OR POTENTIOMETER DIAL FOR ECM MOTORS.
 4. PROVIDE WITH ROOF CURB
 5. SPARK/EXPLOSION PROOF
 6. PROVIDE WITH INSULATED HOUSING FOR SOUND CONTROL.
 7. PROVIDE WITH VIBRATION ISOLATORS. HANG USING VIBRATION ISOLATION HANGERS
 8. INTERLOCK FAN WITH RESPECTIVE AHURTI FAN. SEE PLANS.

SERVED BY	ROOM	SPACE TYPE	NO. OF PEOPLE	REQ'D CFM PER PERSON	SQ.FT. OF AREA	REQ'D CFM PER SQ.FT.	NO. OF PEOPLE/ 1000 SQ.FT. (DEFAULT VALUE)	CFM/PERSON (DEFAULT VALUE)	TOTAL REQ'D CFM	
										TOTAL REQ'D OA FOR RTU-1
RTU-1	RETAIL	SALES (EXCEPT AS BELOW)	5	7.5	560	0.12	15	16	106	
	QUIET ROOMS	RECEPTION AREAS	20	5	872	0.06	30	7	153	
	CORRIDOR	CORRIDORS	0	0	353	0.06	0	0	21	
	OFFICE	OFFICE SPACE	1	5	126	0.06	5	17	13	
									TOTAL REQ'D OA FOR RTU-1	293
									TOTAL PROVIDED OA FOR RTU-1	650
RTU-2	MESSAGE SPACES	OFFICE SPACE	30	5	1790	0.06	5	17	258	
	PREP/LAUNDRY	LAUNDRY ROOMS, CENTRAL	1	5	146	0.12	5	17	23	
	CORRIDOR	CORRIDORS	0	0	578	0.06	0	0	35	
									TOTAL REQ'D OA FOR RTU-2	1196
									TOTAL PROVIDED OA FOR RTU-2	1200
									TOTAL REQUIRED	1488
									TOTAL PROVIDED	1850

NOTE:
 REQUIRED OUTSIDE AIRFLOW (CFM) VALUES BASED ON THE INTERNATIONAL MECHANICAL CODE 2015 & ANSIASHRAE STANDARD 62.1-2013.

BUILDING AIR BALANCE	
TOTAL OUTSIDE AIR	1850
TOTAL EXHAUST AIR	1550
TOTAL BUILDING PRESSURE	300

NO DATE REMARKS
 REVISIONS

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