

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2021 EDITION OF THE "ARKANSAS MECHANICAL CODE", THE 2014 EDITION OF THE "ARKANSAS ENERGY CODE", NFPA 90A, AND ALL CITY, STATE, AND LOCAL REQUIREMENTS. 2. REFER TO THE PROJECT MANUAL FOR ALL REQUIREMENTS.

3. ALL DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS,"

4. DUCTWORK TO BE COORDINATED WITH STRUCTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, COMPONENTS AND SYSTEMS. ALL DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE SLOPED WITH 2-30° ELBOWS UNLESS OTHERWISE NOTED.

5. REFER TO THE STRUCTURAL DRAWINGS FOR DETAILS OF ALL CONCRETE MECHANICAL PADS. PADS SHALL EXTEND BEYOND THE FOOTPRINT OF THE MECHANICAL EQUIPMENT MINIMUM 6" ON ALL SIDES.

6. CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.

7. PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNITS, MAKE-UP AIR UNITS, FURNACES, AND/OR EXHAUST FANS. 8. CONDENSATE PIPING SHALL BE COMPRISED OF TYPE "M", DWV COPPER, OR SCHEDULE 40 PVC. PVC EXPOSED TO SUNLIGHT SHALL HAVE UV RESISTANT

9. ALL PIPING SUSCEPTIBLE TO FREEZING, SUCH AS CONDENSATION PIPING IN WALK-IN FREEZER AND ON THE EXTERIOR OF THE BUILDING, SHALL BE INSULATED WITH 1" FIBERGLASS PIPING INSULATION WITH 0.020" ALUMINUM JACKET AND HEAT TRACED AT 5 WATTS/FOOT. SEAL JACKET WATER-TIGHT. 10. ALL WALL-MOUNTED, OCCUPANT-CONTROLLED HVAC DEVICES, I.E.

THERMOSTATS, HUMIDISTAT, CO2 CONTROLLERS, CONTROL PANELS, ETC. SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. CONTROLS LOCATED IN PUBLIC AREAS SHALL HAVE CLEAR PLASTIC LOCKING COVERS. 11. SLEEVE AND SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED

AND NON-RATED SLABS AND PARTITIONS 12. REFRIGERATION PIPING LAYOUT IS FOR CLARIFICATION ONLY. IT IS THE

RESPONSIBILITY OF THE REFRIGERATION CONTRACTOR TO VERIFY PIPING LAYOUT PRIOR TO FABRICATION. 13. ENSURE REFRIGERATION EQUIPMENT HAS SUFFICIENT ACCESSIBILITY FOR

ROUTINE MAINTENANCE AND SERVICE. VERIFY UNIT SIZES PRIOR TO INSTALLATION AND COORDINATE WITH OTHER TRADES AS NECESSARY TO

14. EQUIPMENT LABELED "OF" WILL BE OWNER FURNISHED. ALL OTHER EQUIPMENT, MATERIALS, SUPPLIES, LABOR, ETC NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM WILL BE THE RESPONSIBILITY OF THE

10. PROVIDE ALL NECESSARY: CONTROL POWER, CONTROL POWER WIRING, VALVES, ACTUATORS, CONDUIT, WIRING, CONTROLLERS, INTERFACE, SWITCHES, CIRCUIT BOARDS, SENSORS, GATEWAYS, PROGRAMMING, LABOR, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM. MAKE FINAL CONNECTION TO DRY CONTACTS AS REQUIRED FOR A COMPLETE AND OPERATION SYSTEM. FOLLOW MANUFACTURER RECOMMENDATIONS AND APPLICABLE CODES FOR CONTROL WIRING AND ASSOCIATED CONDUITS. VERIFY LOCATION OF NETWORK TIE-IN, TIE-IN INSTALLED SYSTEM TO CAMPUS NETWORK, AND ENSURE OWNER SUPPLIED EQUIPMENT IS COMPATIBLE WITH CAMPUS WIDE MONITORING SYSTEM.







GENERAL NOTES

REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

m-fp0'

(4) INSIDE PIPING SECTION

KEYED NOTES

TRANSITION AS REQUIRED FOR THE FULL SIZE CONNECTIONS AT THE FAN DISCHARGE TO THE PANTS-LEG FITTING.

- TERMINATE DUCT TIGHT THE BACK SIDE OF THE EXISTING BIRDSCREEN AT THE EXISTING LOUVER. PROVIDE BRICK VENT IN THE EXISTING 12x6 BLOCK WALL. BRICK VENT SHALL BE EQUAL TO A GREENHECK BVF-12x12 WITH INTEGRAL
- SIZED TO COURSE OUT IN THE EXISTING BLOCK WALL. INSTALL AT APPROXIMATELY 24" A.F.F.
- EXISTING GABLE LOUVER TO REMAIN. INVESTIGATE AND THOROUGHLY CLEAN THE INSECT SCREEN. REPLACE IF IT HAS SUFFICIENT CORROSION OR IS DAMAGED.
- CONDENSING UNITS TO BE PLACED ON CONCRETE EQUIPMENT PAD AND ANCHORED PER MANUFACTURER RECOMMENDATIONS.
- SIZING, TRAP LOCATIONS, TERMINATIONS, AND INSULATION SHALL BE PROVIDED IN STRICT ACCORDANCE WITH THE CONDENSER MANUFACTURER'S RECOMMENDATIONS
- LOCATE EACH UNIT COOLER IN THE SPACE ABOVE PROPOSED STORAGE RACKS.
- ADD SLEEVE AT EACH WALL PENETRATION. SEAL PENETRATIONS AIR TIGHT. 8
- g WATTS/FOOT, COORDINATE WITH ELECTRICAL.
- FOLLOW MANUFACTURER RECOMMENDATIONS FOR CONDENSATE SIZING AND P-TRAP LOCATION. ROUTE CONDENSATE MAIN ALONG 10 INTERIOR WALL OF COLD BOX AND EXTERIOR WALL OF FREEZER BOX, SLOPE AT 4" PER FOOT TOWARDS DRAIN TERMINATION. ATTACH LINE AND P-TRAP WITH 1" FIBERGLASS PIPING INSULATION WITH 0.020" ALUMINUM JACKET. SEAL JACKET WATER-TIGHT.
- 11 PROVIDE FRENCH DRAIN OR ROUTE TO DESIGNATED AREA TO AVOID RUNOFF INTO DRIVEWAY.
- INSTALL THE HEATER AT 24" A.F.F. MEASURED TO THE BOTTOM OF THE CABINET 12
- 13 INSTALL THE FAN COIL UNIT ABOVE THE DOOR HEADER AT APPROX. 8' A.F.F.
- 14 THE ZERO DEGREE COLD BOX.
- 15 DROP WITH THE CONDENSATE DRAIN LINE DOWN ALONG THE EXTERIOR WALL AND TERMINATE 6" A.F.G. SECURE THE PIPE RISER RIGID TO THE WALL AT 5' O.C.
- 16 PROVIDE ALL NECESSARY: CONTROL POWER WIRING, VALVES, ACTUATORS, CONDUIT BOARDS, SENSORS, GATEWAYS, PROGRAMMING, NETWORK, AND ENSURE OWNER SUPPLIEDEQUIPMENT IS COMPATABLE WITH CAMPUS WIDE MONITORING SYSTEM.

OPPOSED BLADE DAMPER OPERABLE FROM FACE OF BRICK VENT, INSECT SCREEN, AND DARK BRONZE ANODIZED FINISH. BRICK VENT IS

ROUTE REFRIGERANT LINES FROM EACH CONDENSING UNIT THROUGH EXTERIOR WALL. ATTACH REFRIGERANT LINES TO INTERIOR WALL ABOVE DOORWAYS, AT ELBOWS, AND EVERY 5' O.C. ENSURE LINES SLOPE TOWARDS ASSOCIATED CONDENSERS. REFRIGERANT PIPE

HEAT TRACE CONDENSATE PIPING IN THE WALK-IN FREEZER AND ON THE EXTERIOR OF THE WALK-IN BOXES AND BUILDING AT 5

CONDENSATE LINE TO WALL AT ELBOWS AND EVERY 5'. PROVIDE UNION CONNECTIONS AND FULL-SIZED P-TRAP AT EVERY UNIT COOLER. TERMINATE IN DESIGNATED DRAIN TO AVOID DRAINING INTO DRIVEWAY. CONDENSATE LINE TO BE TYPE M COPPER, INSULATE CONDENSATE

RISE WITH INSULATED REFRIGERANT LINE SET UP ALONG THE INSIDE SURFACE OF THE EXTERIOR WALL AND CONTINUE AS SHOWN OVER

LABOR, ECT.FOR COMPLETE AND OPERATIONAL SYSTEM. FOLLOW MANUFACTURER RECOMMENDATIONS AND APPLICABLE CODES FOR CONTROL WIRING AND ASSOSEATED CONDUITS. VARIFY LOCATION OF NETWORK TIE-IN, TIE-IN INSTALLED INSTALLED SYSTEM TO CAMPUS



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3 ELECTRIC UNIT HEATER NOT TO SCALE



SUPPC	ORT INTERVAL SCHEDULE	
REFRIGERATION PIPE SIZE	MAXIMUM INTERVAL	ROD DIAMETER
UP TO 7/8	5'-0"	3/4"
1 1/8 TO 1 5/8	8'-0"	3/4"
2 1/8 TO 2 5/8	10'-0"	3/4"
3 1/8 TO 3 5/8	12'-0"	3/4"
4 1/8	14'-0"	3/4"
	NOTE	

SMALLEST LINE IN THE REFRIGERANT PIPING SHALL DETERMINE SUPPORT INTERVAL

THIS DETAIL DOES NOT INCLUDE SEISM PROVIDE SEISMIC EQUIPMENT WITH ALL A MANUFACTURING RECOMMENDATIONS.



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ARCHITECTS/

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ENGINEERS #5

1. CROMWELL ARCHITECTS ENGINEERS, INC.

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Issue Date

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MECHANICAL DETAILS

						REFRIGE	RATIO	N UNIT	COOLER	SCHED	ULE								
	UNIT COOLER UNIT COOLER ELECTRICAL - DEFROST ELECTRICAL - FANS ELECTRICAL - UNIT POWER SUPPLY LOCATION NOTES																		
TAG	MANUFACTURER	MODEL	CFM	CAPACITY (kBTU)	ROOM TEMP (F)	EVAP TEMP (F)	REF. TYPE	WEIGHT (LBS)	DEFROST TYPE	Volt/Ph/Hz	AMPS	WATTS	Volt/Ph/Hz	RLA	MCA	MOP	Volt/Ph/Hz	LUCATION	NOTES
UC-1.1,2,3	RUSSELL	RM6A549DDA	9580	64.2	40	30	R448A	316	AIR	N/A	N/A	N/A	208-230/1/60	5.7	15	20	208-230/1/60	COOLER	1,2,3,4,5,6,7
UC-2.1,2,3	RUSSELL	RM6A549DDA	9580	64.2	40	30	R448A	316	AIR	N/A	N/A	N/A	208-230/1/60	5.7	15	20	208-230/1/60	COOLER	1,2,3,4,5,6,7
UC-3.1,2	RUSSELL	RM6E374EDA	4180	42.9	0	-10	R448A	220	ELECTRIC	208-230/3/60	22.2	8860	208-230/1/60	3.8	15	20	208-230/3/60	FREEZER	1,2,3,4,5,6,7
UC-4.1,2	RUSSELL	RM6E374EDA	4180	42.9	0	-10	R448A	220	ELECTRIC	208-230/3/60	22.2	8860	208-230/1/60	3.8	15	20	208-230/3/60	FREEZER	1,2,3,4,5,6,7

<u>NOTES:</u> 1. 6 FPI

2. R-448A

3. INSULATED DRAIN PAN

4. ECM MOTORS

5. KE2 CONTROLLER WITH FACTORY INSTALLED ELECTRONIC EXPANSION VALVE (EEV)

6. LIQUID LINE SOLENOID VALVE

7. FOR INFORMATION ONLY, EQUIPMENT IS PART OF AN OWNER FURNISHED/CONTRACTOR INSTALLED PACKAGED COOLER/FREEZER SYSTEM.

REFRIGERATION CONDENSING UNIT SCHEDULE

														ELECTRICAL				
				CONDE					-	COMPRES	SSOR			FANS	UNIT T	OTAL	ELECTRICAL - UNIT	NOTES
TAG	MANUFACTURER	MODEL	RATING (HP)	CAPACITY (kBTU)	CONDENSER AMB. TEMP. (F)	SST (F)	REF TYPE	WEIGHT (LBS)	COMPRESSOR TYPE	Volt/Ph/Hz	RLA	LRA	QTY	FLA/Fan	MCA	MOP	POWER SUPPLY	NOTEO
U-1,2	RUSSELL	RFDV020M4SEA	20	185.3	100	30	R448A	1940	DISCUSS	208-230/3/60	64.7	374	2	13	95.9	150	208-230/3/60	1,2,3,4,5,6,7,8,9,10,12
U-3,4	RUSSELL	RFDS22L4SEA	22	88.7	100	-10	R448A	1420	DISCUSS	208-230/3/60	57.7	374	2	7.5	80.6	150	208-230/3/60	1,2,3,4,5,6,7,8,9,10,11,12
NOTES:																		
1. COMPRE	SSOR CRANKCASE	HEATER																

2. ANTI-SHORT CYCLING TIME DELAY

3. ADJUSTABLE FLOODED HEAD PRESSURE CONTROL

4. ADJUSTABLE HIGH AND LOW PRESSURE CONTROLS 5. REFRIGERANT PRESSURE RELIEF VALVES

6. REPLACEABLE CORE SUCTION FILTER

7. PHASE/VOLTAGE MONITOR

8. OIL SEPARATOR WITH OIL FILTER AND SOLENOID

9. NON-FUSED DISCONNECT SWITCH

10. 5 YEAR COMPRESSOR WARRANTY

11. HAIL GUARDS

12. FOR INFORMATION ONLY, EQUIPMENT IS PART OF AN OWNER FURNISHED/CONTRACTOR INSTALLED PACKAGED COOLER/FREEZER SYSTEM.

			[DUCTL	ESS SPLIT-	SYSTEM	HEAT	PUN	AP S	CHED	DULE						
		INDOOR UNIT		Ol	JTDOOR UNIT		COO	LING			HE	ATING		ELE	CTRICAL		
MARK	*MANUF'R./ MODEL	SERVES	FAN CFM (HI/MED/LO)	MARK	*MANUF'R./ MODEL	TOT. CAP. (BTUH)	EDB (F)	EWB (F)	AMB (F)	SEER	TOT. CAP. (BTUH)	AMB (F)	HSPF	VOLTAGE	MCA	BKR	REMARKS
MSFC-1	LG LSN180HSV5	DATA/WORK ROOM 104	706/530/477/371	MSOU-1	LG LSU180HSV5	18,000	80.0	67.0	95.0	21.5	21,600	47.0	10.2	208/1/60	13.0	20A	SEE NOTES
* OR APPR NOTES:	OVED EQUAL			-				-									

1. SYSTEM SHALL BE COMPLETE WITH INDOOR AND OUTDOOR UNIT FROM SAME MANUFACTURER

2. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT

3. VARIABLE SPEED INVERTER SCROLL COMPRESSOR

4. ELECTRICALLY COMMUTATED INDOOR FAN MOTOR

5. ELECTRICALLY COMMUTATED OUTDOOR FAN MOTOR

6. WALL THERMOSTAT

7. AUTO RESTART

8. 24-HOUR ON/OFF TIMER

9. LOW AMBIENT TO 14-DEGREES F

10. CONDENSATE SENSOR CONNECTION

11. COOLING ONLY FUNCTION

12. FIVE YEAR COMPRESSOR WARRANTY

13. TWO YEAR FUNCTIONAL PARTS WARRANTY

14. PROVIDE WALL MOUNTED CONDENSATE PUMP AS RECOMMENDED BY THE FAN COIL UNIT MANUFACTURER (120/1/60).

			EXH	HAUS	ST FA	AN S	CHED	DULE				
	GENER	AL			F	۹N				ELECT	RICAL	
MARK	MANUF'R./MODEL	SERVES	DRIVE	TYPE	CFM	ESP	RPM	SONES	VOLTAGE	MOTOR	CONTROL	REMARKS
EF-1	GREENHECK SQ-15-VG	GENERAL BUILDING VENTILATION	DIRECT	CENT.	3,000	1/4"	1,275	14.3	120/1/60	1 HP	RELATIVE HUMIDITYSENSOR	SEE NOTES
+												

* OR APPROVED EQUAL

NOTES:

1. FACTORY MOUNTED INTEGRAL DISCONNECT AND BACKDRAFT DAMPER.

2. FAN SPEED CONTROL DIAL FACTORY WIRED AND MOUNTED ON FAN HOUSING.

3. 1" SPRING ISOLATION HANGERS.

4. WALL MOUNTED RELATIVE HUMIDITY SENSOR PROVIDED BY FAN MANUFACTURER (SETPOINT = 60% ADJ.)

		ELECTRIC UNI	T HEATER	SCHEDU	JLE			
MARK	MANUF'R/MODEL*	SERVES	TYPE	S.A.	KW	FLA	POWER	REMARKS
EUH-1	RAYWALL AFA110D	F.S. RISER ROOM	SURFACE MOUNT	175 CFM	1.0	8.3	120/1/60	SEE NOTES
* OR APPRC <u>NOTES:</u> 1. LOW SPE	OVED EQUAL ED VANE AXIAL BLOWER							

2. BUILT-IN TAMPER-PROOF THERMOSTAT

3. INTEGRAL DISCONNECT SWITCH

4. POWDER COATED 18-GAUGE STEEL FRONT GRILLE WITH ALUMINUM FRAME

5. SEALED TUBULAR HEATING ELEMENTS WITH PARALLEL STEEL FINS 6. AUTOMATIC RESET THERMAL OVERLOAD CUT-OFF SAFETY SWITCH

7. AUTOMATIC FAN DELAY CIRCUIT

8. MANUFACTURER'S 1-YEAR HEATING ELEMENT WARRANTY



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KE2 Evaporator Efficiency - Controls and Communicates

General Control Notes:

- INTERFACE.

<u>Coolers</u>

General Description: Both the freezer and cooler boxes consist of two (2) fully redundant refrigeration systems. The systems for both the freezer and cooler shall operate in a lead/lag schedule of 7 days (adjustable). Each unit cooler is equipped with a factory installed KE2 Evaporator Controller that will control each individual system. Each individual KE2 controller shall be daisy-chained to a lead controller for each system, which shall be connected to a common KE2 router via ethernet cable. The router shall be networked with the campus wide control system for user access and control, a local workstation shall be supplied. The lead/lag schedule shall be implemented using individual system controllers and owner approved 3rd party control components.

Room Temperature Control:

System Defrost:

Lead/Lag Operation: logged.

Alarms:

High Temperature Alarm: Cooler: 50 F (adj.)

Low Temperature Alarm: Cooler: 36 F (adj.)

Door Alarm: Cooler: 30 minutes (adj.) Freezer: 30 minutes (adj.)

1. PROVIDE COMPLETE CONTROL SYSTEM CONSISTING OF A HIGH-SPEED, PEER-TO-PEER NETWORK OF APPLICATION CONTROLLERS RESIDING ON A CONTROL SYSTEM'S SUB-NETWORK WITH A LOCAL (CONFIRM LOCATION WITH USER) AND WEB-BASED OPERATOR

2. INCLUDE ALL PROGRAMMING, OBJECTS, AND SERVICES REQUIRED TO MEET THE SEQUENCE OF CONTROL.

3. PROVIDE AN OPERATION WORKSTATION ON SITE, COMPLETE WITH SOFTWARE CAPABLE OF PROGRAMMING, CONFIGURING, AND MONITORING THE SYTEM.

4. INSTALL THE ELECTRICAL EQUIPMENT, CONDUCTORS, AND ALL OTHER RELATED ITEMS IN ACCORDANCE WITH NFPA 70.

5. INSTALL ANY FIRE ALARM DEVICES AND RELATED EQUIPMENT IN ACCORDANCE WITH NFPA 72, NFPA 90a, NFPA 101, SBCCI, AND ANY APPLICABLE ANSI STANDARDS.

6. PROVIDE ALL NECESSARY: CONTROL POWER, CONTROL POWER W IRING, VALVES, ACTUATORS, CONDUIT, WIRING, CONTROLLERS, INTERFACE, SWITCHES, CIRCUIT BOARDS, SENSORS, GATEWAYS, PROGRAMMING, LABOR, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM. MAKE FINAL CONNECTION TO DRY CONTACTS AS REQUIRED FOR A COMPLETE AND OPERATION SYSTEM.

7. PROVIDE 8 HOURS OF ONSITE OWNER TRAINING PRIOR TO THE TURNOVER OF EQUIPMENT TO THE OWNER.

Sequence of Operation: Refrigeration System - Condensing Units and Unit

Cooler: The lead cooler refrigeration system shall be enabled when the temperature rises 1 F (adj.) above the box temperature setpoint of 40 F (adj). The system shall disable when the temperature falls 1 F (adj.) below the box temperature setpoint, and minimum compressor runtime is achieved.

Freezer: The lead freezer refrigeration system shall be enabled when the temperature rises 1 F (adj.) above the box temperature setpoint of 0 F (adj). The system shall disable when the temperature falls 1 F (adj.) below the box temperature setpoint, and minimum compressor runtime is achieved.

Cooler: The cooler system is air defrost, defrost shall be enabled on a set schedule (adj.) controlled by the KE2 controller.

Freezer: The cooler system is electric defrost, defrost shall be enabled on a set schedule (adj.) controlled by the KE2 controller.

During normal operation, the lead/lag system will rotate on 7-day (adj.) schedule for both the freezer and cooler box. The runtime and rotation of each system shall be

n the event of a high or low temperature alarm the lag system shall automatically be enabled and will become the lead system.

Each alarm shall be logged and stay in place until manually cleared from the alarm log. A notification shall be generated for each alarm.

- Time Delay: 60 minutes (adj.)
- Freezer: 10 F (adj.)
- Time Delay: 60 minutes (adj.)
- Time Delay: 10 minutes (adj.)
- Freezer: -4 F (adj.)
- Time Delay: 10 minutes (adj.)

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