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- SEQUENCE:
 - WATER PUMP AIR CONDITIONING UNIT SHALL BE PROVIDED WITH FACTORY PACKAGED CONTROLS BY THE MANUFACTURER. PROVIDE FIELD CONTROL WIRING FOR ROOMS.
 - CONDENSATE PUMP SWITCHES.
 - A LEAK DETECTOR UPON THE SENSING OF WATER, SHUTDOWN THE UNIT AND ALARM THE BMS.
 - BMS POINTS:
 - (1) ACU STATUS

18. COMPUTER ROOM AIR CONDITIONING UNIT (CRAC-1 & CRAC-2)

- THE ENVIRONMENTAL CONTROL SYSTEM SHALL BE DESIGNED SPECIFICALLY FOR PROTECTION OF THE COMPUTER ROOM. THE SYSTEM SHALL BE CAPABLE OF MONITORING AND CONTROLLING TEMPERATURE, HUMIDITY, COOLING, HUMIDIFYING AND HEATING FUNCTIONS FOR THE CONDITIONED SPACE. THE SYSTEM SHALL BE BUILT TO BE FLOOR MOUNTED AND CONFIGURED FOR DOWN DISCHARGE OF CONDITIONED AIR FROM THE FLOOR THROUGH AIR PATTERNS, TO PROVIDE UNIFORM AIR DISTRIBUTION OVER THE ENTIRE FACE OF THE COIL.
- SUBMITTALS SHALL BE PROVIDED WITH THE PROPOSED AND DESIGN DRAWINGS, INCLUDING: PHYSICAL DATA, ELECTRICAL CONNECTION DRAWINGS, PIPING CONNECTION DRAWINGS.
- THE SYSTEM SHALL BE COMPLETELY FACTORY TESTED PRIOR TO SHIPMENT. TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO, COMPLETE OPERATIONAL TESTING AND PERFORMANCE TESTING UNDER REAL WORLD CONDITIONS. EACH SYSTEM SHALL SHIP WITH A COMPLETED TEST REPORT TO VERIFY COMPLETION OF FACTORY TESTING PROCEDURE.
- SYSTEM PARTS SHALL BE WARRANTED FOR A PERIOD OF 12 MONTHS FROM DATE OF SHIPMENT FROM FACTORY.
- CABINET CONSTRUCTION
 - DOUBLE SKIN PANELS: MODULES SHALL BE CAPABLE OF WITHSTANDING A 200 LB GAUGE IMPACT WITH 24 GAUGE INTERIOR WALL AND INSULATED WITH 1.5 LB (CRKMG) DENSITY FIBER INSULATION. INSULATION SHALL BE FROM EXTERIOR PANEL DOWN SHALL BE 18 GAUGE FROM PANELS SHALL BE POWER COATED AND REMOVABLE FINISHED WITH A LOCKING HANDLE.
 - FRAME: THE FRAME SHALL CONSTRUCTED OF 1 1/2 INCH DIA. TUBULAR FORWARD STEEL. THE FRAME SHALL BE CAPABLE OF WITHSTANDING A 200 LB GAUGE IMPACT WITH 24 GAUGE INTERIOR WALL AND INSULATED WITH 1.5 LB (CRKMG) DENSITY FIBER INSULATION. INSULATION SHALL BE FROM EXTERIOR PANEL DOWN SHALL BE 18 GAUGE FROM PANELS SHALL BE POWER COATED AND REMOVABLE FINISHED WITH A LOCKING HANDLE.
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 - FREQUENCY CONTROLLED MOTOR: A DIRECT DRIVE MOTOR AND FREQUENCY CONTROLLER SHALL BE USED WITH EACH BLOWER IN THE SYSTEM TO ENHANCE USER FUNCTIONALITY.
- TANDEM SCROLL COMPRESSORS
 - REFRIGERATION SYSTEM: THE SYSTEM SHALL OPERATE UNDER THE COORDINATION OF THE MAIN CONTROLLER. SECTION AND DISCHARGE PRESSURES SHALL BE MONITORED AND ELECTRONICALLY CONTROLLABLE.
 - TANDEM SCROLL COMPRESSORS: THE UNIT SHALL CONTAIN SCROLL COMPRESSORS FOR OPTIMIZED PERFORMANCE, EFFICIENCY AND RELIABILITY.
- MASTER CONTROLLER
 - MONITORING AND CONFIGURATION: THE MASTER BMS/ACU SHALL ALLOW MONITORING AND CONFIGURATION OF THE UNIT THROUGH A MENU-BASED CONTROL FUNCTIONS INCLUDE STATUS REPORTING, SETUP AND TEMP/HUMIDITY SET POINTS, TROUBLE SHOOTING AND OPERATIONAL STATUS OF THE CONDITIONED SPACE.
 - CONTROLS: THE MICROPROCESSOR SHALL COME EQUIPPED WITH CONTROL KEYS ALLOWING THE USER TO NAVIGATE BETWEEN MENUS, TO SELECT MENU ITEMS, AND TO INPUT ALPHANUMERIC INFORMATION.
 - ALARMS: THE MICROPROCESSOR SHALL GENERATE A VISIBLE AND AUDIBLE ALARM IN THE OCCURRENCE OF ANY OF THE FOLLOWING EVENTS:
 - HIGH CONTROL TEMPERATURE
 - LOW CONTROL TEMPERATURE
 - HIGH CONTROL HUMIDITY
 - LOW CONTROL HUMIDITY
 - HIGH FILTER DIFFERENTIAL PRESSURE
 - RETURN SENSOR FAILURE
 - HIGH SUPPLY TEMPERATURE
 - LOW SUPPLY TEMPERATURE
 - LOSS OR LOW ARIELOW
 - SUPPLY SENSOR FAILURE
 - WATER REGULATOR ACTUATOR FAILURE (MODEL SPECIFIC)
 - HIGH HEAD PRESSURE
 - LOW SUCTION PRESSURE
 - HUMIDIFIER FAILURE
 - REFRACANT CANISTER
 - FREQUENCY CONTROLLER 1 FAILURE
 - FREQUENCY CONTROLLER 2 FAILURE
 - AIR BLOCK INTERLOCK OPEN
 - WATER DETECTED
 - FIRE
 - SMOKE DETECTED
 - CONDENSATE PUMP FAILURE

4. ISSUES: THE MICROPROCESSOR CONTROLLER SHALL LOG AND DISPLAY THE 30 MOST RECENT ALARMS EACH ALARM LOG SHALL CONTAIN TIME/DATE STAMP AS WELL AS THE OPERATING CONDITIONS AT THE TIME OF THE ALARM (TEMPERATURE, HUMIDITY, BLOWER MOTORS).

5. ELECTRICAL PANEL

- THE CONTROL VOLTAGE SHALL BE 24 VAC CLASS 2 CIRCUIT. THE ELECTRICAL PANEL SHALL CONTAIN CONTRACTORS, STARTERS, OVERLOAD PROTECTION DEVICES AND INPUT POWER DISCONNECTS. THE PANEL SHALL BE LOCATED IN THE FRONT OF THE UNIT FOR EASY ACCESS.
- THE EMPLOYER COIL SHALL BE UNSHEATHED COPPER AND BIFILAR COILS. THE EMPLOYER COIL SHALL BE UNSHEATHED COPPER AND BIFILAR COILS. THE EMPLOYER COIL SHALL BE UNSHEATHED COPPER AND BIFILAR COILS. THE EMPLOYER COIL SHALL BE UNSHEATHED COPPER AND BIFILAR COILS.
- THE CONDENSATE PAN SHALL HAVE A UL REQUIRED OVERFLOW PROTECTION PIPE. THE OVERFLOW PIPING SHALL EXTEND FROM THE CONDENSATE PAN TO THE BASE PAN OF THE UNIT AND ALLOW FOR OPTIMAL FLOW FROM AS A SMART DRAIN.
- PROGRAMMABLE INPUT/OUTPUT INTERFACE MODULE.
 - THE MAIN MODULE SHALL PROVIDE FIELD CONNECTION THROUGH A SYSTEM BUS TO THE MAIN MODULE. THE MAIN MODULE SHALL BE CAPABLE OF MONITORING AND CONTROLLING THE SYSTEM THROUGH THE MAIN MODULE. THE MAIN MODULE SHALL BE CAPABLE OF MONITORING AND CONTROLLING THE SYSTEM THROUGH THE MAIN MODULE.

6. REFRIGERATION SYSTEM MONITORING

- THE SYSTEM SHALL REPORT THE REAL TIME MONITORING OF BOTH SECTION AND REVERSE SECTION. THE SYSTEM SHALL REPORT THE REAL TIME MONITORING OF BOTH SECTION AND REVERSE SECTION. THE SYSTEM SHALL REPORT THE REAL TIME MONITORING OF BOTH SECTION AND REVERSE SECTION.

7. MAIN POWER CIRCUIT BREAKERS

- A FACTORY INSTALLED CIRCUIT BREAKER SHALL BE PROVIDED FOR EACH SECTION. THE CIRCUIT BREAKER SHALL BE ACCESSIBLE WITHOUT REMOVING THE ELECTRICAL BOX COVER.

8. EVAPORATOR FREEZE PROTECTION

- SUCTION PRESSURE SHALL BE ACTIVELY MONITORED AND CONTROLLED TO ELIMINATE THE RISK OF CONDENSATE FREEZE-UP ON THE EVAPORATOR.
- PREDICTIVE FAILURE WARNINGS
 - CONDENSATE WATER WITH THE UNIT SHALL PROVIDE A WARNING VIA THE MICROPROCESSOR INTERFACE THAT SERVICE IS NEEDED PRIOR TO FAILURE OCCURRING.
- HIGH RETURN AIR TEMPERATURE CAPABILITY
 - UNIT SHALL BE CAPABLE OF WITHSTANDING THE HIGH RETURN AIR TEMPERATURES ASSOCIATED WITH TYPICAL HIGH DENSITY APPLICATIONS.
- REFRIGERANT CHARGE INDICATION
 - FOR COMPRESSOR PROTECTION, UNIT SHALL BE CAPABLE OF UTILIZE CHARGE INDICATION AND CRANK CASE HEATERS DURING COMPRESSOR OFF-CYCLES.

9. STEAM GENERATING HUMIDIFIER

- HUMIDIFIER SHALL BE ABLE TO MODULATE CAPACITY. THE HUMIDIFIER SHALL BE SELF-CONTAINED. STEAM-GENERATING HUMIDIFIERS SHALL BE CAPABLE OF WITHSTANDING THE HIGH RETURN AIR TEMPERATURES ASSOCIATED WITH TYPICAL HIGH DENSITY APPLICATIONS. THE HUMIDIFIER SHALL BE SELF-CONTAINED. STEAM-GENERATING HUMIDIFIERS SHALL BE CAPABLE OF WITHSTANDING THE HIGH RETURN AIR TEMPERATURES ASSOCIATED WITH TYPICAL HIGH DENSITY APPLICATIONS.

10. SENSITIVE ELECTRIC HEAT

- UNIT SHALL BE CAPABLE OF WITHSTANDING THE HIGH RETURN AIR TEMPERATURES ASSOCIATED WITH TYPICAL HIGH DENSITY APPLICATIONS.

11. WATER REGULATING VALVES

- WATER AND GYCOL COOLED SYSTEMS SHALL UTILIZE THREE-WAY VALVES TO REGULATE THE AMOUNT OF WATER OR GYCOL SUPPLIED TO THE CONDENSATE PUMP. THE STANDARD WATER PRESSURE RATING SHALL BE 400 PSIG.

12. HIGH LIFT, DUAL FLOW CONDENSATE PUMP

- FACTORY INSTALLED AND WIRED CONDENSATE PUMP SHALL PUMP 60 GPM (0.08 L/S) AT 60 FT HEAD.

13. ADDITIONAL PROGRAMMABLE INPUT/OUTPUT INTERFACE MODULES

- EACH SYSTEM SHALL BE EQUIPPED WITH UP TO 2 ADDITIONAL PROGRAMMABLE INPUT/OUTPUT INTERFACE MODULES. THE MICROPROCESSOR CONTROLLER SHALL BE CAPABLE OF MAPPING TO OUTPUTS AS A SYSTEM ADMIN OR CUSTOMER ADMIN.

14. FIRESTAY

- A FIRESTAY SHALL BE FACTORY-INSTALLED IN THE RETURN AIR TO SENSE, TEST AND ACTIVATE A VISUAL AND AUDIBLE ALARM.

15. SMOKE DETECTOR

- CONCENTRATORS OF SMOKE AND SMOKE TO THE MAIN CONTROLLER SHUTTING DOWN THE UNIT AND ACTUATING A VISUAL AND AUDIBLE ALARM.

16. SPOT WATER DETECTOR(S) MIN. OF THREE PER UNIT

- A WATER DETECTOR SHALL BE FACTORY-WIRED AND SHIPPED IN THE BOTTOM OF THE UNIT TO SENSE WATER AND SEND A SIGNAL TO THE MAIN CONTROLLER. THE WATER DETECTOR SHALL BE PROVIDED WITH 15 FT OF WIRE.

17. CABLE WATER DETECTOR

- A LEAK DETECTOR SENSING CABLE SHALL BE SHIPPED LOOSE WITH THE UNIT.
- THE DETECTOR SHALL BE PROVIDED WITH 35 FEET OF CABLE.

18. HOT GAS REHEAT

- THE WATER UNIT SHALL BE SUPPLIED WITH A FACTORY-INSTALLED COPPER TUBE AND ALUMINUM FIN HOT GAS REHEAT COIL.

19. 85% HIGH EFFICIENCY FILTERS

- FILTERS SHALL BE 85% EFFICIENT PER ASHRAE STANDARD 52.1-92, U.L. CLASS 2.

20. FLOW SWITCH

- SINGLE POLE DOUBLE THROW SWITCH MONITOR FLOW IN OR FLOW OUT EXCESS OR INSTALLATION.

21. ENVIRONMENTAL MONITORING AND MANAGEMENT

- ENVIRONMENTAL MONITORING UNIT: A STAND-ALONE UNIT SHALL PERFORM CONTINUOUS TEMPERATURE AND HUMIDITY SENSING THROUGH TWO AVAILABLE PROVES AND CONTACT MONITORING.

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