

INPUT/OUTPUT SUMMARY FOR AIR HANDLING UNITS AH-01 & AH-02

Table with columns: SYSTEM APPARATUS OR AREA POINT DESCRIPTION, ANALOG (MEASURED, CALCULATED), BINARY, DIGITAL, ANALOG, ALARMS, PROGRAMS, GENERAL, SUPPLEMENTARY NOTES. Rows include: OUTSIDE TEMPERATURE, PREHEAT COIL, AIR FILTER, MIXING AIR DAMPER, COOLING COIL, HUMIDIFIER, SUPPLY FAN, SUPPLY AIR RELATIVE HUMIDITY, ROOM TEMPERATURE, SPACE AVERAGE RELATIVE HUMIDITY, ZONE DUCT HEATERS, SMOKE DETECTOR, etc.

INPUT/OUTPUT SUMMARY FOR WATER CHILLERS CH-01, CH-02, & CH-03

Table with columns: SYSTEM APPARATUS OR AREA POINT DESCRIPTION, ANALOG (MEASURED, CALCULATED), BINARY, DIGITAL, ANALOG, ALARMS, PROGRAMS, GENERAL, SUPPLEMENTARY NOTES. Rows include: WATER CHILLER, CHILLED WATER PUMP, CHILLED WATER RETURN TEMP, CHILLED WATER SUPPLY TEMP, CHILLED WATER FLOW DIAGRAM, FLOOR PLANS, CHILLED WATER BOOSTER PUMP.

FLOOR PLAN GRAPHICS WILL SHOW ALL EQUIPMENT LOCATION. CONTROL PANELS AND CONTROL COMPONENTS SUCH AS DAMPER, VALVES, TEMPERATURE SENSOR, PRESSURE SENSORS... ETC.

NOTES:

- 1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE SHEETS LA-H-001 AND LA-H-002.
2. SMOKE DETECTORS SHALL BE HARD WIRED TO THE SUPPLY FANS SF-01 & SF-02 MOTOR STARTER TO STOP FANS WHEN SMOKE IS DETECTED IN THE RETURN AIR STREAM...
3. CONTROL SYSTEM SHALL BE STAND ALONE TYPE AND CONNECTED TO THE MAIN CONTROL AND MONITORING SYSTEM AT THE FACILITY CONTROL ROOM...
4. LVEA ROOM SHALL BE PROVIDED WITH MULTIPLE TEMPERATURE SENSORS TO CONTROL THE RESPECTIVE DUCT HEATER...

SEQUENCE OF OPERATION:

- I. CHILLED WATER PLANT: UPON A SIGNAL FROM THE CENTRAL CONTROL SYSTEM THE PACKAGED CONTROLS PROVIDED WITH THE WATER CHILLER WILL PERFORM THE FOLLOWING:
A. THE LEAD CHILLED WATER PUMPS (WP-01 & WP-02) WILL START TO ESTABLISH STEADY WATER FLOW THROUGH THE SYSTEM.
B. UPON PROOF OF ESTABLISHED WATER FLOW THE LEAD CHILLERS (CH-01 & CH-02) WILL START TO MAINTAIN THE LEAVING CHILLED WATER TEMPERATURE SETPOINT (42°F).
...
VII. EQUIPMENT START UP:
A. ALL WATER CHILLERS SHALL BE SOFT START.
B. SUPPLY AIR FANS (SF-01 THRU SF-06) SHALL START AT THE MINIMUM STATIC PRESSURE AND GRADUALLY INCREASE THE SYSTEM STATIC PRESSURE TO MAINTAIN THE DESIRED AIR FLOW RATE.
C. BUILDING PRESSURIZATION SENSORS FOR LVEA AND OSB (LAB AREA) SHALL MODULATE THE MOTORIZED DAMPERS LOCATED ON THE RETURN AIR & OUTSIDE AIR DAMPERS TO START AT 100% RETURN AIR AND GRADUALLY MODULATE THE DAMPERS TO MAINTAIN THE BUILDING PRESSURIZATION SETPOINT.

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