



**A. SYSTEM OFF:**

1. SUPPLY FAN OFF.
2. CHILLED WATER CONTROL VALVE CLOSED.
3. HEATING WATER CONTROL VALVE CLOSED.
4. CONTROL LOOPS INACTIVE.

**B. SYSTEM START:**

1. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULE.
2. OPERATOR ENTERED COMMAND AT THE BMS.
3. LOCAL SWITCH.
4. LOCAL TEMPERATURE SENSOR.

**C. SYSTEM OPERATION:**

1. THE SUPPLY FAN SHALL RUN.
2. COOLING  
ON A CALL FOR COOLING, THE COOLING COIL VALVE WILL BEGIN TO MODULATE OPEN AS THE COOLING DEMAND TEMPERATURE REACHES 52°F (ADJ). ON CONTINUED CALL FOR COOLING, THE FAN WILL BEGIN TO MODULATE TO COOLING, THE CHILLED WATER VALVE WILL BEGIN TO MODULATE OPEN MAINTAINING A 52°F (ADJ) DISCHARGE AIR TEMPERATURE. THIS PROCESS WILL BE CHILLED WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN COOLING DEMAND, THE SEQUENCE WILL REVERSE.
3. DEAD BAND  
WITH NO DEMAND IN THE SPACE, THERE WILL BE NO CALL FOR COOLING OR HEATING. THE FAN WILL BE AT MINIMUM FLOW.
4. HEATING  
ON A CALL FOR HEATING, THE HEATING COIL VALVE WILL BEGIN TO MODULATE OPEN AS THE HEATING DEMAND DISCHARGE AIR TEMPERATURE REACHES 90°F (ADJ). ON CONTINUED CALL FOR HEATING, THE FAN BEGINS TO MODULATE TO HEATING. THE HEATING COIL VALVE WILL REACH MAXIMUM FLOW. UPON A DECREASE IN HEATING DEMAND, THE PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE HEATING MAXIMUM AIRFLOW AND THE HOT WATER VALVE WILL REVERSE.

**D. SYSTEM STOP:**

1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON A PREPROGRAMMED SCHEDULE.
2. MANUAL OFF AT LOCAL SWITCH.
3. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

**E. SETPOINTS:**

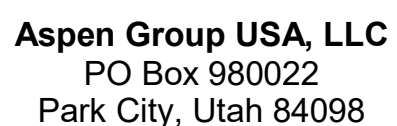
1. SPACE TEMPERATURE 70°F HEATING AND 75°F COOLING. ALARM AT BMS AT +/- 2°F FROM SETPOINT.

Reserved for permit stamp

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checked by Checker  
job no. \_\_\_\_\_  
date 5/31/2024

J	01/10/2025	ASI 6
1	5/17/2024	IFC 2

no.	date	b
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IFC Set 3 of 3  
5/31/2024

### MECHANICAL CONTROL DIAGRAM

# M5.10