

HF & Cyclone Fans Seq. of Oper.

HF-1, HF-2 (typical of 2)

Run Conditions - Scheduled:

The unit shall run based upon an operator adjustable schedule, or as the status of the bellows is enabled, or based on the override switch.

Supply Fan:

The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime, initially set to 7 minutes..

Alarms shall be provided as follows:

- Supply Fan Failure: Commanded on, but the status is off.
- Supply Fan in Hand: Commanded off, but the status is on.
- Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.).

Supply Air Duct Static Pressure Control:

The controller shall measure duct static pressure of the airflow station and shall modulate the HF Bay dampers (3 for each system) to maintain airflow requirements. The dampers shall not close more than below 30% (adj.).

Alarms shall be provided as follows:


- High Airflow Condition: If the supply airflow is 25% (adj.) greater than setpoint.
- Low Airflow Condition: If the supply airflow is 25% (adj.) less than setpoint.
- Supply Fan Failure: Commanded on, but the status is off.
- Supply Fan in Hand: Commanded off, but the status is on.

Cyclone Fan:

The cyclone fan shall run whenever the HF fan runs.

Alarms shall be provided as follows:

- Cyclone Fan Failure: Commanded on, but the status is off.
- Cyclone Fan in Hand: Commanded off, but the status is on.
- Cyclone Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.).

Winnipeg Transit Winnipeg, Manitoba			
Integrated Control Systems			
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			DSCODE:
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