

230913S01 Healthcare Clinical Temperature & Humidity Monitoring

Purpose:

Several healthcare accrediting agencies require that rooms that are considered critical, like those where invasive procedures are performed or where sterile items are stored, are to be in constant compliance when being used for their intended purpose. Room temperature and humidity monitoring are to be monitored to ensure continuous compliance.

In addition, refrigerators and freezers used for medication and patient nutrition also require monitoring of temperatures in the units. Such refrigerators and freezers should be medical grade units.

Required Room Monitoring Locations:

Spaces requiring temperature and humidity monitoring are:

- Operating rooms
- Interventional Radiology rooms
- Sterile processing rooms
- High level sterile reprocessing storage rooms
- Cath Lab rooms

Room Monitoring Procedure:

1. Above listed rooms are to be connected to the campus Tridium Building Automation System.
2. Sensors are to be installed in each of the spaces to monitor the room temperature and humidity.
3. Trends are to be set up for the temperature and humidity readings based on the requirements of the individual location. A representative for the particular space should be consulted during the design for this information.
4. Alarms should be established based on each space's needs. Department rep should be consulted for contact information for alarm notifications.
5. Tridium dashboards and monthly reports should be developed in conjunction with the department rep.

Required Refrigerator / Freezer Monitoring:

Refrigerators or freezers used for storage of the following items require temperature monitoring:

- Pharmacy medication
- Refrigerated Pyxis machines
- Human milk or formula
- Nutrition refrigerators located on the patient floors

Refrigerator / Freezer Monitoring Procedure:

1. Each of the items listed above are to be connected to the campus Tridium Building Automation System.
2. If the refrigerator or freezer has existing temperature sensors that provide a remote monitoring connection, those connections should be used for connecting to Tridium.
3. If the units do not have existing connections, temperature sensors are to be installed in each of the devices to monitor the temperature inside of the unit. The temperature sensors should have a bulb containing glycol to provide a more accurate reading.
4. Trends are to be set up for the temperature readings based on the requirements of the individual piece of equipment. A representative for the particular refrigerator or freezer should be consulted during the design for this information.

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5. Alarms should be established based on each space's needs. Department rep should be consulted for contact information for alarm notifications.
6. Tridium dashboards and monthly reports should be developed in conjunction with the department rep.