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DISPOSABLE BREATHER MAINTENANCE AND INSTRUCTION GUIDE

MAINTENANCE / INSPECTION:

Breathers should be replaced based on color, or, if using a vacuum indicator (suggested), whichever indication is first. If not using a vacuum indicator, best practice is to change the breather after 12-18 months regardless of color.

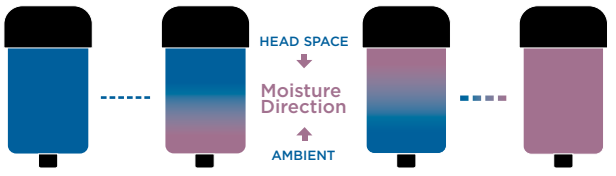
1. Inspect the color of the desiccant breather per PM schedule or biweekly at a minimum.

a. When the breather is at the original color (e.g., blue), it has not yet been saturated.

b. As the breather gradually turns to the saturation color (e.g., pink) it indicates spending as it becomes saturated.

i. Under many conditions, the filter turns from the bottom up. This indicates that the main moisture comes from outside the equipment.
ii. If the filter turns from the top down, it means there is a moisture problem inside the equipment that the breather is beginning to dry out.
iii. It is possible for the color change to happen from both the top and bottom of the breather. This indicates moisture coming from inside and outside of the equipment.

c. When the breather has fully turned to the saturation color (e.g., pink), it should be replaced.



d. Unexpected colors such as green, orange, or brown colors mean that there is oil coming from the application, being absorbed by the silica gel.

i. If oil contamination occurs, replace the breather to prevent clogged filters and reduced airflow. To reduce oil carryover, use breathers with oil mist reduction features, remote mounting, or demisting adapters. For vaporized oil, adding activated charcoal inside the breather is effective.



A green/brown color indicates that blue silica gel has adsorbed oil, but is not exposed to moisture.



An orange color indicates blue silica gel has adsorbed oil and moisture.

2. When you have the breather installed with a vacuum indicator, check the color of the window on the adapter.

a. A red color means that there is significant differential pressure and therefore the filter is saturated by particles (clogged) so it must be changed immediately regardless of the color of the desiccant



DISPOSAL / REPLACEMENT:

When one of the listed indications shows that the breather needs to be replaced, dispose of the breather according to local regulations. A new breather should be installed immediately after removal of the spent breather, following instructions on the breather packaging.

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