iO-FCA Filter Alert
Installation Manual

Introduction:

The iO-FCA Filter Alert helps to maintain design airflow, static pressure, and air quality by providing an audible and visual warning when your HVAC filter gets dirty and needs to be changed.

Principle of Operation:

As the filter gets dirty, the HVAC system static pressure increases, and the system efficiency drops off. The iO-FCA Filter Alert monitors the increase in pressure and alerts the end-user to change their filter when necessary.

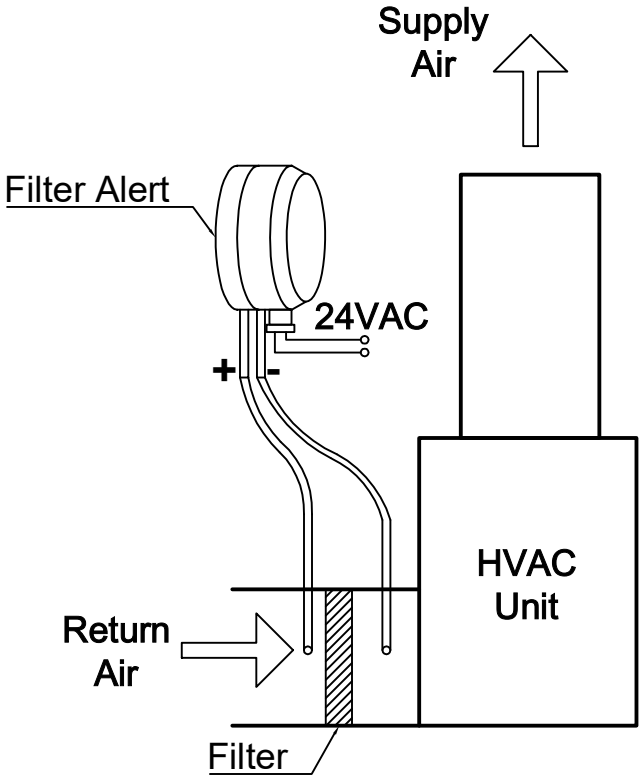
Installing The Filter Alert:

The iO-FCA comes with 2 airflow probes, 1/4" vinyl tubing, and an instruction label.

1. Install with a clean new filter. Mount the Filter Alert vertically.
2. Insert the negative pressure probe of the Filter Alert between the filter and the blower.
3. Insert the positive pressure probe of the Filter Alert in the return air duct before the filter.
4. Remove the cover to wire 24VAC to their respective terminals on the Filter Alert.
5. Plug in the silence switch connector from the cover to the PCB
6. Set the HVAC unit to its maximum cooling setting.
7. Turn the Filter Alert adjustment knob all the way to the right（maximum pressure setting）
8. Slowly turn the knob to the left（towards minumum pressure setting） until the Filter Alert starts beeping and blinking red.
9. Turn the knob to the right to increase setpoint by 0.1 inch of water column and until it stops beeping.
10. Replace the cap and ensure that the alarm is armed and not silenced.
11. Place the label next to the device.

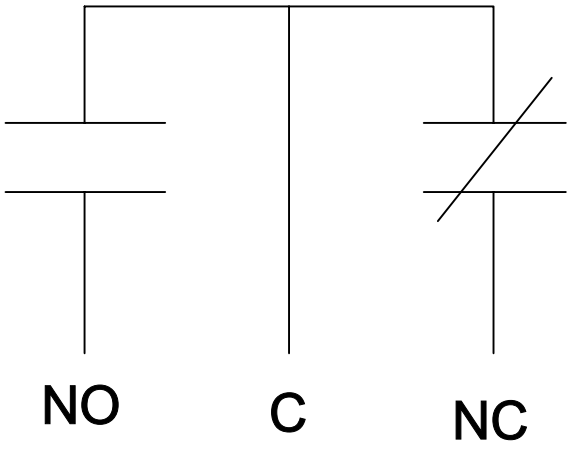
Note: If you notice that the filter is still clean when the alarm sounds, and you want to extend the filter use, turn the knob to the right to increase the setpoint further.

Note: Resistors near the terminals may get warm, install with caution.



Auxiliary Relay:

The iO-FCA Filter Alert has an auxiliary dry-contact SPDT relay output to connect to a variety of auxiliary alarm systems. The relay will energize when the iO-FCA detects a dirty filter, and will stay energized even if the alarm is muted.



Relay Contact Ratings:

2A @ 24VDC

2A @ 120VAC

The iO-FCA Filter Alert comes with a label that should be placed next to the device. The label has space for the name of the contractor and contact information.

If this alarm goes off that means your filter needs changed.
1. Flip the switch to mute the alarm.
2. Change your filter.
3. Flip the switch to unmute the alarm.
Call your HVAC contractor if you need assistance.

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