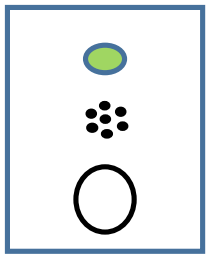
DrySafer™

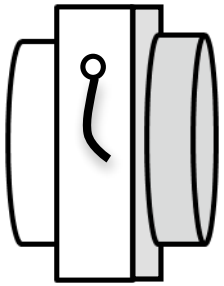
DRYER VENT ALARM

Product Overview:

Alarm Module

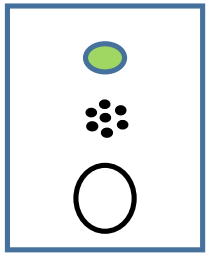


Airflow Sensor

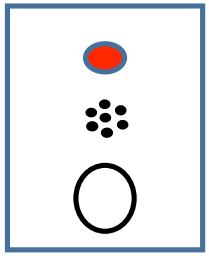


Alarm Module:

The Alarm Module houses the main control board, speaker, LED and reset button. The Alarm Module is attached to the Airflow sensor by a communications cord. The Alarm Module monitors the flap's position, and determines if the dryer is on or not by sensing the electrical feedback of the built in microphone, that is molded into the inside wall of the Airflow sensor. The electronics can be tested by pressing and holding the test/reset button for 5 seconds until the unit signals 10 beeps/flashes. Press again to reset the Alarm Module . The Alarm Module is powered by a UL Listed power supply which reduces the power from 110 volts down to 5 volts.



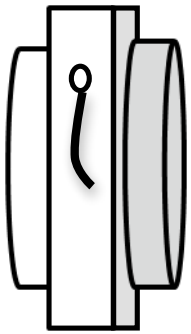
Normal



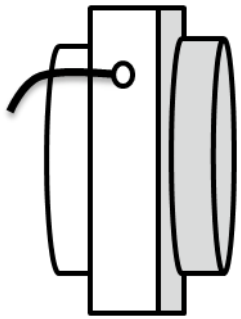
Alarm

Airflow Sensor:

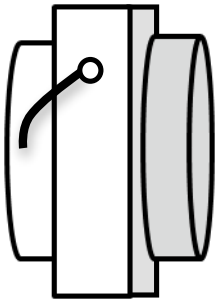
The Airflow Sensor mounts either directly onto the back of the dryer or anywhere inline of the vent system (within 8 feet of the dryer). The Airflow Sensor first determines if the dryer is running or not with the use of its built in microphone. The microphone sends a signal to the Alarm Module that the dryer is running, at the same time, the Alarm Module is monitoring the position of the flap, by reading the magnetic contact's impulses from the secondary circuit board attached to the side of the Airflow Sensor . Through this communication, Drysafer is capable of self diagnosing itself. If the dryer is **on**, the flap must be in a **fully open position**, or if the dryer is **off** the flap must be in a **fully closed position,** if *neither* of these two scenarios are present, the alarm will sound.



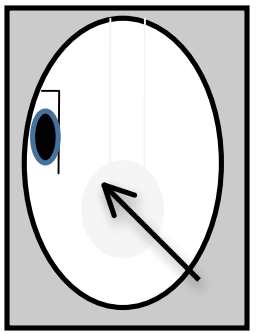
"Off position"



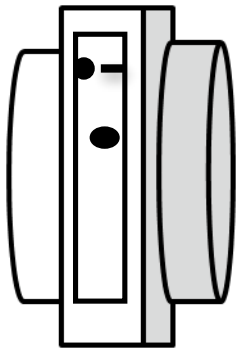
"On position"



"Alarm position"



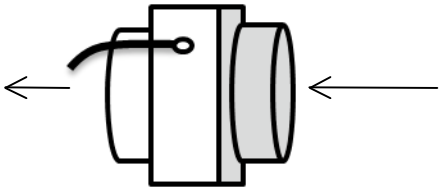
Microphone

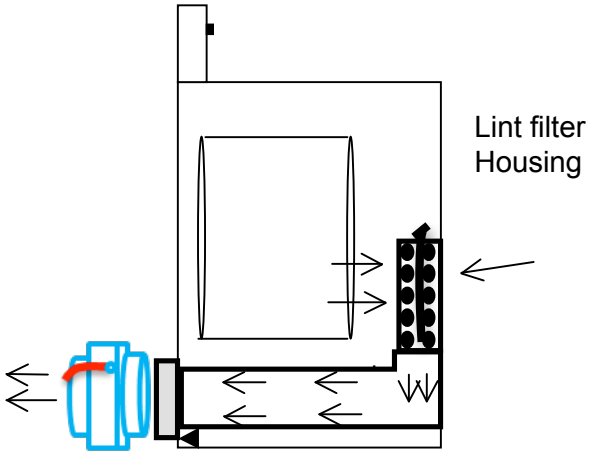


Secondary circuit board

How it Works:

The airflow in the vent is created inside of the dryer, by the dryer's motor/blower assembly. As the air is force through the dryer and out through the duct, the control board, located in the Alarm Module, picks up the signal from the built in microphone in the Airflow Sensor and begins to actively monitor the position of the Flap. As lint begins to accumulate inside the dryer's lint housing and venting system, it begins to reduce the rate of airflow. Once the airflow is restricted, the force of air no longer is enough to keep our flap in a fully open position. Once this happens, our contacts on the secondary board on the Airflow Sensor breaks and sends an alert to our Alarm Module. The control board located in the Alarm Module will begin to monitor the contact break for a period on 1.5 minutes. If the restriction is not removed in that time, the alarm will sound every other minute until the restriction is removed.



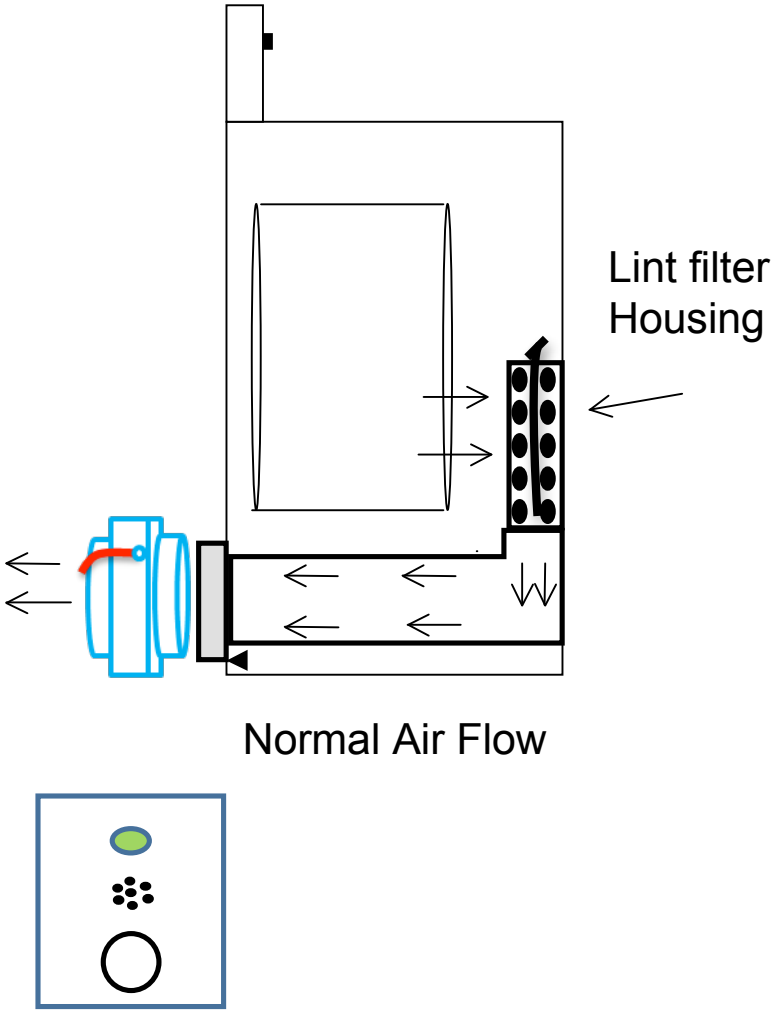


Normal Air Flow

Clogged Lint Housing

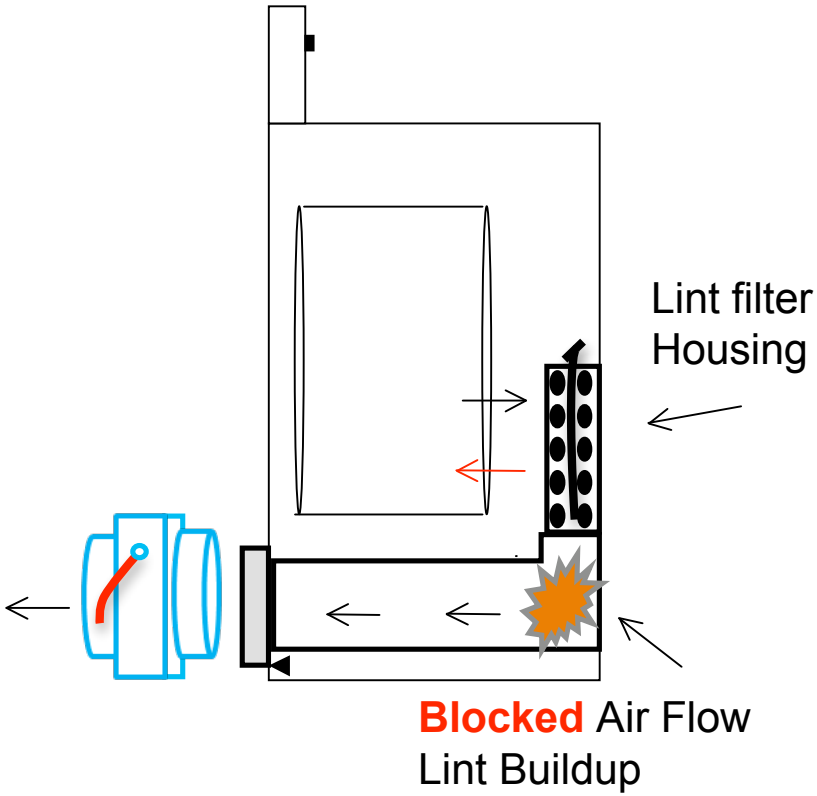
Scenario #1 Normal conditions

Normal Air Flow



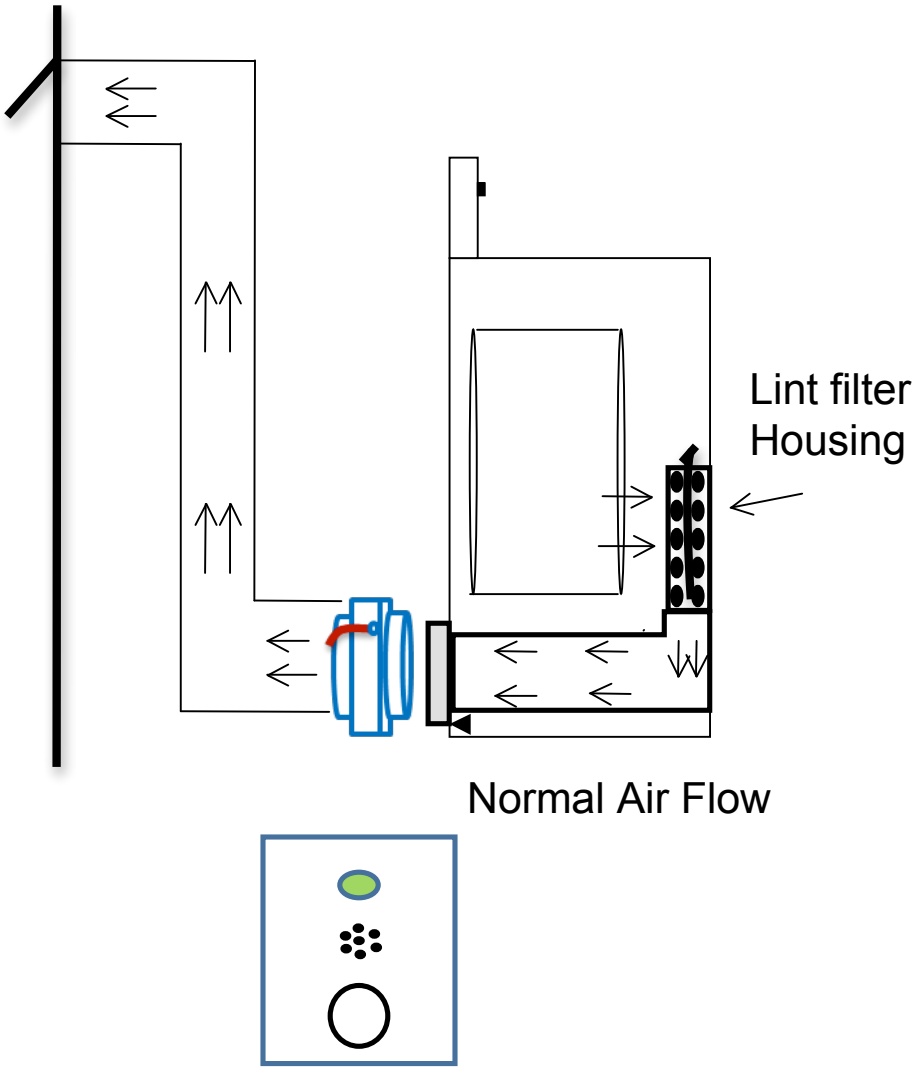
Scenario #2 Clogged Lint housing

Blocked Air Flow
The Alarm Sounds



Clogged Vent Line

Scenario #1 Normal conditions



Scenario #2 Clogged Vent