













Denford Advantage Extraction Unit - Diagnostics  
3.2.09

1. The illuminated **GREEN** Light on the front of the Denford Advantage Extraction Unit, just means that both of the filters are not blocked and air is flowing freely through them. It monitors the pressure difference across both the filters.
2. If the **RED** Light comes ON then take either the 2 Stage Pre-filter or the Combined HEPA & Chemical Gas Filter out of the filter unit and switch it back on again. If the **RED** Light stays ON then the filter you left in the filter unit has expired, if the **RED** Light goes back to **GREEN** then the filter you have taken out has expired.
3. If the smell of the exhaust starts to get more and more pungent, even if the **GREEN** Light is still illuminated, then the Combined HEPA & Chemical Gas filter needs replacing

LED's	Showing	Indicates
  	Green only	Unit is running - Filters are usable
  	Green & Amber	Pre or Combined filter 75% blocked
  	Green, Amber & Red	Pre or Combined filter blocked and in need of replacing
  	Green, Amber & Red flashing	Fault with the extractor This condition may occur for a few seconds on start up

Fault Finding

There are 4 fuses in the BOFA Advantage unit

- |                     |        |
|---------------------|--------|
| 1. Compressor       | T3.15A |
| 2. Cooling Fan      | T1.0A  |
| 3. Electronic Board | T1.0A  |

#### 4. Main Fan / Pump      T2.0A

If the LED's are illuminated then there is power to the extraction unit

There is a 12v PSU that feeds the Electronic Board via the T1.0A fuse, this Electronic Board has a pressure transducer on it that lights GREEN, AMBER and RED LED's at different stages of the filter life, I.e. it see's the pressure differences across the filters

If all 3 LED's are flashing then:-

1. Make sure the filters are fitted and correctly positioned
2. Make sure that the tubing is connected to the laser and the CORRECT inlet into the extraction unit
3. Check to see if the fan is running, i.e. is there air being drawn in to the extraction unit INLET?

The 3 flashing LED's are controlled by a pressure sensor which works on 0 to 40milli bars

Up to 3milli bars the Green LED comes on

Up to 20milli bars the Orange LED comes on

Up to 25milli bars the Red LED comes on