



Formaldehyde
Breakthrough Indicator
With Auxiliary Filter Trap
Formaldehyde BTI AFT
(PN: 659)

Manual



Unexposed



Exposed
Change carbon absorber



1. Application

The Formaldehyde BTI AFT (PN: 659) is qualitative (yes/no) colorimetric indicator for real-time indication of formaldehyde vapor. The indicator is equipped with auxiliary filter trap to ensure no formaldehyde vapor escape to the outside environment while the indicator changing color.

2. Specifications

- | | |
|----------------------------------|--|
| a. Weight: | 118g (4.2oz) |
| b. Dimensions: | |
| Breakthrough indicator (Part A): | 89.9mm (3.5in), diameter 24.5mm (1.0in) |
| Auxiliary filter trap (Part B): | 41mm (1.6in), diameter 81mm (3.2in) |
| c. Inlet dimensions: | ¾" MNPT |
| d. Operating temperature: | -20°C to 50°C (-4°F to 122°F) |
| e. Operating humidity: | 5% RH to 85%RH |
| f. Minimum detectable limit: | 0.4ppm·hr at 30 cm/sec face velocity |
| g. Color change: | Dark brown to dark blue |
| h. Storage temperature: | 4°C to 25°C, (39°F to 77°F) |
| i. Shelf life: | 14 months at 4°C to 25°C, (39°F to 77°F) |
| j. Service life: | 14 months |

Cross interferences: Acrolein and aldehydes found in cigarette+ smoke react with approximately the same sensitivity. No other interferences are known.

3. Instructions

- Ensure that packaging pouch is intact.
- Open packaging pouch by tearing off the top part from one of side notches.
- Remove the breakthrough indicator (Part A), Figure 1, and the auxiliary filter trap (part B), Figure 2, from the packaging pouch.
- Screw the breakthrough indicator (Part A) into the auxiliary filter trap (part B) as shown in Figure 3.
- Remove the protective red plugs to activate the breakthrough indicator.
- Screw in the Breakthrough Indicator into the ¾" threaded carbon absorber outlet lid. Teflon tap can be used on threads to ensure proper seal.



Caution: Only hand tighten indicator into carbon absorber

- Formation of dark brown or dark blue indicate formaldehyde.



Figure 1



Figure 2



Figure 3

CHEMTEQ®