



Basic Vapors  
Breakthrough Indicator  
With Auxiliary Filter Trap  
Aliphatic Amines BTI AFT  
(PN: 653)

Manual



Unexposed



Exposed  
Change carbon absorber



## 1. Application

The Aliphatic Amines BTI AFT (PN: 653) is qualitative (yes/no) colorimetric indicator for real-time indication of aliphatic amines. The indicator is equipped with auxiliary filter trap to ensure no aliphatic amines 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 55°C (-4°F to 131°F)            |
| e. Operating humidity:           | 5% RH to 95%RH                           |
| f. Minimum detectable limit:     | 5ppm·hr at 30 cm/sec face velocity       |
| g. Color change:                 | Yellow to green                          |
| 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: Ammonia produce blue color, acidic vapors in high concentrations impair the performance of the aliphatic amines' breakthrough indicator. 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**

- Replace carbon absorber when the Breakthrough Indicator changes color to green or blue.



Figure 1



Figure 2



Figure 3

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