

## Mercury Breakthrough Indicator With Auxiliary Filter Trap Hg BTI AFT (PN: 665)



Unexposed



Exposed  
Change carbon absorber

*Manual*



### 1. Application

The Mercury BTI AFT (PN: 665) is qualitative (yes/no) colorimetric indicator for real-time indication of mercury and mercury II compounds vapors. The indicator is equipped with auxiliary filter trap to ensure no mercury vapors 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 95%RH                                      |
| f. Minimum detectable limit:     | 0.5mg/m <sup>3</sup> -hr at 30 cm/sec face velocity |
| g. Color change:                 | Off white to peach                                  |
| h. Storage temperature:          | 4°C to 25°C, (39°F to 77°F)                         |
| i. Shelf life:                   | 1 year at 4°C to 25°C, (39°F to 77°F)               |
| j. Service life:                 | 1 year  |

Cross interferences: Strong oxidizers. 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-tied indicator into carbon absorber**

- Formation of peach color indicates the presence of mercury vapors.



Figure 1



Figure 2



Figure 3

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