

## **HGM-SZ**

## **Single Zone Halogen Monitor**

### Instructions for Upgrading to an External Charcoal Filter

**Instruction:** 3015-5717

Revision: 1

**Date:** April 15, 2013

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### Overview

During normal operation, the Single Zone Halogen monitor performs a purge cycle during which fresh air is drawn in from the purge line to flush internal components of any residual refrigerants. Purge lines should draw in fresh outside air to perform the purge function. When access to outdoor air is impractical, purge lines may begin indoors, however a charcoal filter must be used on the purge line to ensure that no contaminated air is drawn into the system during purge cycles. The charcoal filter removes refrigerant gas contamination from the purge-air stream during the internal purging process.

The *external* charcoal filter for the Single Zone monitor is superior to the internal filter used in previous generations of the SZ (which included an *internal* charcoal filter). The replacement kit includes additional components for externally mounting the improved external charcoal filter. The steps required to perform this upgrade are listed below. Note that this upgrade ONLY applies to halogen refrigerant monitors (HGM-SZ), and not AGM-SZ (ammonia) or SFM-SZ (SF<sub>6</sub>) monitors.

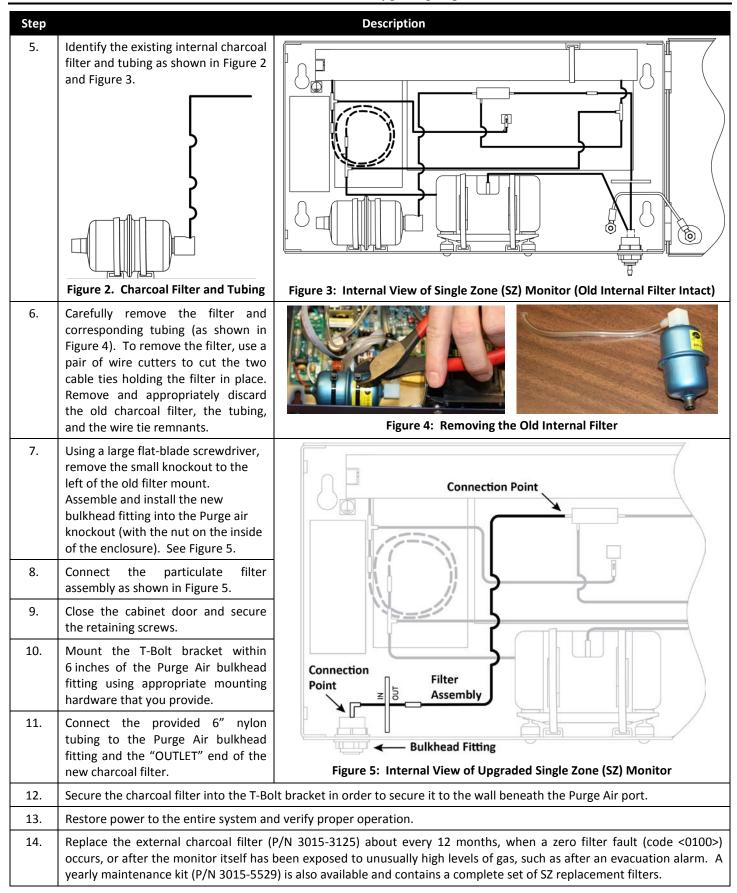
### Requirements

- Medium sized Phillips' head screwdriver to open the enclosure
- Large flat-head screwdriver to remove the purge air knockout from the enclosure
- Wire cutters to remove cable ties holding the internal filter
- Appropriate mounting hardware (user-supplied) to mount the T-Bolt bracket to the wall beneath the purge air bulkhead fitting and below the SZ enclosure
- Appropriate approval for system maintenance of the gas leak monitoring equipment

- Upgrade kit (P/N 3015-5716):
  - T-Bolt bracket (P/N 3015-2969)
  - External charcoal filter (P/N 3015-3125)
  - 6" of nylon tubing to connect the charcoal filter to the bulkhead fitting (P/N 0304-2742)
  - o Bulkhead fitting (P/N 3015-3220)
  - Internal particulate filter assembly which includes filter (P/N 0007-1650), tubing, elbow fitting, and reducer
  - Upgrade instructions (P/N 3015-5717)

### **Procedure**

Step		Description
1.	Get approval from the appropriate building management personnel to shut off the gas leak detection and monitoring equipment and any networked building management controls, alarms, and/or gas leak mitigation equipment.	Access Screws  Access Screws
2.	Remove power from the Single Zone monitor. Verify that the unit is off.	
3.	Open the Single Zone (SZ) cabinet by unscrewing the two captive screws located on the left side of the enclosure (see Figure 1).	Figure 1: Side and Front Views of Single Zone (SZ) Monitor
4.	Swing open the door to provide access to the internal components of the SZ.	



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