

## PRODUCT DESCRIPTION

- When an odorant such as mercaptan is added to odorless substances such as natural gas, liquid butane, propane, or biogas, there are situations where the mercaptan odor needs to be removed, particularly at stations near or in areas populated by humans. The Welker® OdorEyes® AEF Atmospheric Exhaust Filter is designed to remove the mercaptan odor under such circumstances.
- Internal filter media absorb offensive odors from constant or intermittent bleed systems.

## SPECIFICATIONS

### Application

Odor Removal From Natural Gas or Other Similar Substance Exhaust Lines

### Materials of Construction

Resilient Composites

### Maximum Allowable Operating Pressure

Atmospheric Conditions Only

### Temperature Range

0 °F to 140 °F (-17.7 °C to 60.0 °C)

### Connections

**Inlet:** ¼" FNPT, ½" FNPT, ¾" FNPT

**Outlet:** 1"

### Filtration

Proprietary Blend

### Approximate Dimensions

9½" x 4" x 4" (L x W x H) (1 US Quart Size)

### Approximate Weight

7½ lb (1 US Quart Size)

### Features

Proprietary Filtration Blend

### Options

Three Inlet Connection Options

Several Sizes Available: From 1 US Quart to 55 US Gallons

### Maintenance Schedule

The Welker® OdorEyes® AEF Atmospheric Exhaust Filter indicates it has reached its saturation point when the odor of mercaptan can be detected. The AEF then needs to be replaced by a new AEF.

The following procedures have been written for use with standard Welker® parts and equipment. Assemblies that have been modified might have additional requirements and specifications not listed in this document.

**If you received a damaged Welker® OdorEyes® AEF Atmospheric Exhaust Filter, please contact a Welker® representative immediately.**

For all product inquiries, please contact our Service Department: 281.207.1887



# INSTALLATION, OPERATION, AND MAINTENANCE MANUAL WELKER® ODOREYES® AEF ATMOSPHERIC EXHAUST FILTER IOM-295 | REV. 0 | 05/28/2025



The installation, operation, and maintenance liability for this equipment becomes that of the purchaser at the time of receipt. Reading the instructions that comprise IOM-295 prior to installation and operation of this equipment is required for a full understanding of its application and performance prior to use.

## AEF: INSTALLATION AND OPERATION



The AEF **MUST** be installed vertically, with the outlet pointing down.

- Ensure that all valve(s) that are in place in a flow line before the AEF are in the CLOSED position.
- Tube from the line for the natural gas, liquid butane, biogas, or other such substance to the inlet (*Figure 1*) of the Welker® OdorEyes® AEF Atmospheric Exhaust Filter.
- To allow exhaust to flow to the AEF, as necessary, open any valve(s) before the AEF.
- While the entire system is in operation, it is very important to regularly monitor for the smell of the mercaptan.
- If the smell of the odorized natural gas, liquid butane, biogas, or other such substance is noticeable, the AEF is longer filtering effectively and would need to be replaced.
- BE CERTAIN you have replacement Welker® OdorEyes® Atmospheric Exhaust Filters available. Welker® typically sells the AEF in quantities greater than one.

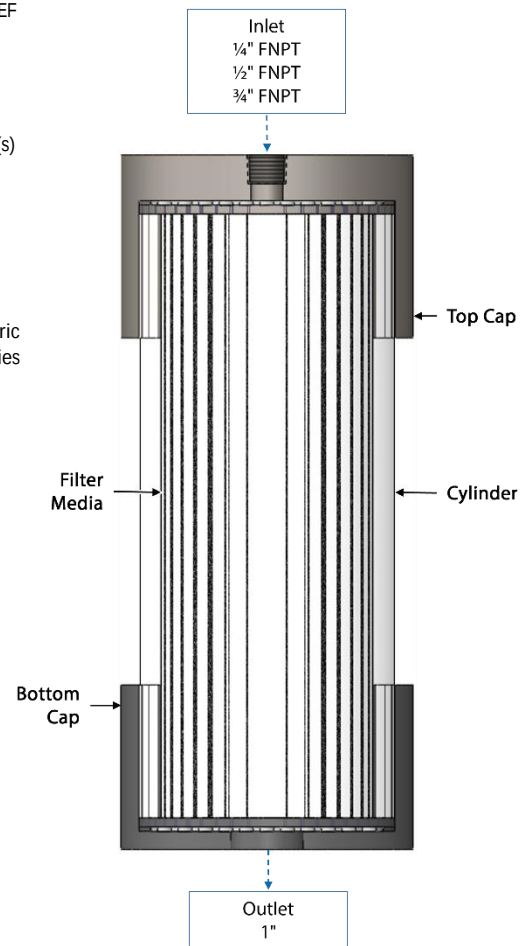
## AEF: MAINTENANCE

### Before You Begin

- Replacement of the Welker® OdorEyes® AEF Atmospheric Exhaust Filter is necessary when the smell of the odorant is noticeable.
- Welker® recommends having an adjustable wrench available for maintenance. Please note that the exact tool required might vary by model.

### Replacing the AEF

- As necessary, to isolate the AEF from the exhaust flow, close any valve(s) before the AEF.
- Disconnect all tubing from the AEF.
- Remove the AEF from the exhaust line.
- Discard the AEF in an environmentally responsible and safe way according to applicable regulations and company policy.
- You will need a replacement AEF.
- Connect the inlet (*Figure 1*) of the replacement AEF to the line for the natural gas, biogas, liquid butane, or other such substance.
- To allow exhaust to flow to the replacement AEF, as necessary, open any valve(s) before the AEF.
- The replacement AEF is now operational.



**Figure 1: Welker® OdorEyes® AEF Atmospheric Exhaust Filter**



When replacing the AEF, remember that the AEF **MUST** be installed vertically, with the outlet pointing down (*Figure 1*).



The Welker® OdorEyes® AEF Atmospheric Exhaust Filter is designed to be used in conjunction with existing equipment powered by odorized natural gas, liquid butane, biogas or other such substance. Refer to company standards and the *Installation, Operation, and Maintenance (IOM) Manual(s)* for the equipment for proper equipment arrangement.



BE CERTAIN there are Welker® OdorEyes® Atmospheric Exhaust Filters available for replacement when the AEF filtration media have reached saturation point. Welker® typically sells the AEF in quantities greater than one.

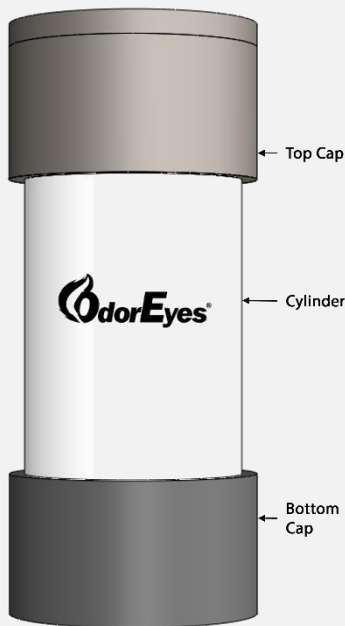
## PRODUCT DESCRIPTION

- When mercaptan is added to odorless substances such as natural gas, liquid butane, propane, or biogas, there are situations where the mercaptan odor needs to be removed or lessened, particularly at stations near or in areas populated by humans. The Welker® AEF Atmospheric Exhaust Filter is designed to remove the mercaptan odor under such circumstances.
- Internal filter media absorb offensive odors from constant or intermittent bleed systems.

**The installation, operation, and maintenance liability for this equipment becomes that of the purchaser at the time of receipt.**

**Reading the instructions that comprise IOM-295 prior to installation and operation of this equipment is required for a full understanding of its application and performance prior to use.**

**Welker® OdorEyes® AEF  
Atmospheric Exhaust Filter:  
Figure 2**



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## IMPORTANT SAFETY INSTRUCTIONS WELKER® ODOREYES® AEF ATMOSPHERIC EXHAUST FILTER IOM-295 | REV. 0 | 05/28/2025

### BEFORE YOU BEGIN

*Read These Instructions Completely and Carefully*



NOTES emphasize information and/or provide additional information to assist the user.



CAUTION messages appear before procedures that could result in damage to equipment if not observed.



WARNING messages appear before procedures that could result in personal injury if not observed.

The instructions that comprise IOM-295 are intended to be used as basic setup and installation guidelines for the Welker® Atmospheric Exhaust Filter, Model AEF. The information in IOM-295 has been carefully checked for accuracy and is intended to be used as guidelines for the setup and installation of the Welker® equipment described in IOM-295. Correct setup, installation, and operation, however, are the responsibility of the end user. Welker® reserves the right to make changes to IOM-295 and all products in order to improve performance and reliability.

### SAVE INSTRUCTIONS

Save these Safety instructions and the instructions that comprise IOM-295 for local inspectors' use.

### OBSERVE

Observe all governing codes and ordinances.

### NOTE TO INSTALLER

Leave these Safety instructions and the instructions that comprise IOM-295 with the end user.

### NOTE TO END USER

Keep these Safety instructions and the instructions that comprise IOM-295 for future reference.

### NATURE OF INSTALLATION

Installation of this AEF Atmospheric Exhaust Filter is of a mechanical nature.

### INSTALLATION RESPONSIBILITY

Proper installation is the responsibility of the installer. Product failure due to improper installation is not covered under the warranty.

