# FAAST™ Fire Alarm Aspiration Sensing Technology
## Automatic Purging Unit: F-BO-AFE70-2

## Overview

The FAAST Automatic Purging Unit provides a fully integrated and compact solution with user-selectable preventative or event triggered purging programs. An intelligent and installation-friendly design ensures AFE70-2 is a cost effective and reliable means of preventing pipe network contaminant blockages.

### Features



- A fully integrated and compact system, designed for larger pipe networks
- Designed for use in Honeywell Aspiration Smoke Detection (ASD) systems
- Patented design without air resistance (as defined by EN 54-20)
- 6 user selectable preventive or event-triggered purging programs
  - Short or long purging cycle options
- Internal clock or external clock timer can be connected
- Several systems can be coupled in Master-Slave mode
- Manual control via external push-button
- Automatic initiation if a fault message is received from the ASD system (activating through FACP only)
- Easy commissioning without software tools
- Multicolored LED indicates the system condition

## Description

ASD systems continuously monitor the air in a protected environment, potentially subjecting the system to contamination over time. In order to prevent the build up of pipe or aspiration hole contaminates, regular ASD system purging with compressed air is essential.

In contrast to conventional purging systems, Honeywell's compact and user-friendly AFE70-2 unit features a single built-in Solenoid valve, which initiates the release of air into the ASD system. This valve also increases reliability by protecting the unit from any compressed air damage and can be accessed through a control board that is integrated into the housing.

Installation time is greatly reduced, thanks to a compact and fully integrated design, removing the need for mechanical and electrical control devices. Further cost savings can be leveraged by a reduced need for cabling and pipe work to commission the system.

With user-definable purging processes and customisable program features, AFE70-2 delivers continuous and uninterrupted air flow and is also optimised to assist with benchmark preventative maintenance regimes, through automatic purging processes that can be set up at specific times. These purging processes are independent of any fault-initiated purging procedures performed by the system.

Designed with the engineer in mind, the system offers excellent flexibility; external devices - such as a push-button or a central timer – can be connected to an input to allow initiation of additional manual or automatic activations of the purging process.

SYSTEM SENSOR®

# Architect/Engineer Specifications

## Purging Unit

| | |
|---|---|
| Height | 68 mm |
| Width | 204 mm |
| Depth | 160 mm |
| Housing Cover Colour | Grey white, RAL 9002 |
| Weight | 3.2kg (approx.) |
| Patent Number | AT 514912 |

## Environment

| | |
|---|---|
| Operating Temperature | +5°C to +50°C |
| IP Rating | IP20D |
| Relative Humidity | Max. 95% at 40°C |

## Compressed Air Connection

| | |
|---|---|
| Max. Permissible Overpressure | 0.7MPa (7.0bar) |
| Recommended Minimum Pressure | 0.2MPa (2.0bar) |
| Flow Rate Solenoid Valve | 0.2MPa: typ. 1,300 l/min |
| | 0.4MPa: typ. 2,300 l/min |
| | 0.6MPa: typ. 3,200 l/min |
| | 0.7MPa: typ. 3,700 l/min |

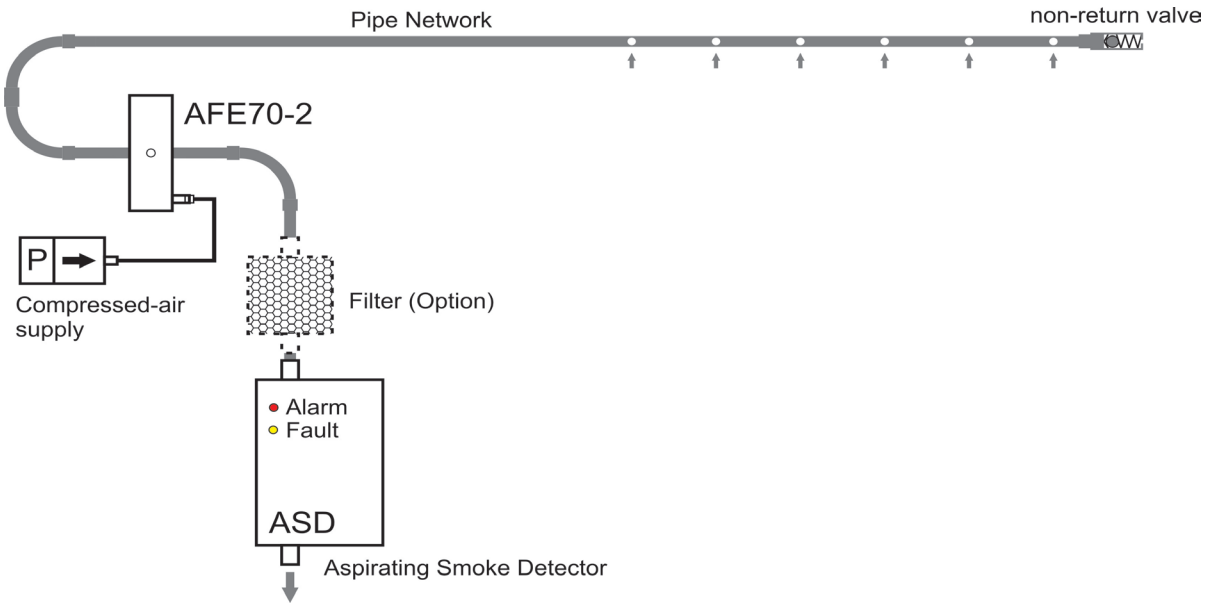
## Ordering Information

| | |
|---|---|
| Order Name | Purging Unit / AFE70-2 |
| Part Number | F-BO-AFE70-2 |

## Electrical Specification

| | |
|---|---|
| Supply Voltage | 21.6 – 30 VDC |
| Current Consumption @ 24v | 8mA (normal condition) |
| | 300mA (solenoid vavle energised) |

# System Configuration




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Installation information: In order to ensure full functionality, refer to the installation instructions as supplied.