



DESCRIPTION

Fike Series 70 Clean Agent Containers are used in fire extinguishing systems to store the Clean Agent until a fire develops and the agent must be released. The Clean Agent is retained in the container by a valve assembly which contains a fast acting rupture disc. The disc will be ruptured, and the Clean Agent released, through two methods: (1) Operation of an actuator by an electric signal that is automatically or manually controlled; (2) When the contained Clean Agent reaches an internal temperature range of 130°F to 150°F (49.9°C to 65.5°C), it will create sufficient internal pressure to burst the rupture disc and release the Clean Agent. The valve, which contains the rupture disc and actuator, is available in three sizes: 1" (25mm), 2 1/2" (65mm) and 3" (80mm). The 1" (25mm) valve is used on the 10 (4 L), 20 (8 L), 35 (15 L), 60 (27 L), and 100 pound (44 L) containers; the 2 1/2" (65mm) valve is used on the 125i (51 L) and 215i pound (90 L) containers; the 3" (80mm) valve is used on the 215 (87 L), 375 (153 L), 650 (267 L) and 1000 pound (423 L) containers. After a discharge, the valve is field reconditioned by simply replacing three components.

Fike Series 70 Clean Agent Containers have passed extensive testing by Factory Mutual and Underwriters Laboratory and are used in installations where 4 to 836 pounds (2.0 to 379.5 kg) of HFC-125 agent is required. To eliminate the need for multiple containers, or using more Clean Agent than necessary, these containers can be filled in 1 pound (0.5 kg) increments to their maximum capacity.

Each container for ECARO-25 Clean Agent Systems is super pressurized with dry nitrogen to 360 psig (25 bar), at 70° F (21° C), to provide a quick and effective discharge in 10 seconds or less.

Fike Series 70 Clean Agent Containers are supplied with a pressure gauge that permits a quick, visual, inspection of container pressure. Optional items include a Liquid Level Indicator, and a Low Pressure Supervisory Switch. The Liquid Level indicator provides the convenience of determining the container's agent weight without removing it from its installed

location. The Low Pressure Supervisory Switch provides constant monitoring of the container's internal pressure. It is available in two styles; normally opened and normally closed contacts. In the event of a decrease in container internal pressure from 360 psig to 288 psig (24.8 bar to 18.8 bar), the Supervisory Switch normally opened/closed contacts will close/open. This will cause a supervisory trouble alarm at the system control panel.

Fike Series 70 Clean Agent Containers are available for installation in the upright, inverted or horizontal positions, depending upon the user's particular needs and the type and size container specified. The mounting location of the container is quite flexible. It can be mounted at the exact point of discharge or at a remote location by adding distribution piping from the container to the nozzle system. (Refer to the Fike Design, Installation & Maintenance Manual - P/N 06-285). The operating temperature range is +32°F to +120°F (0°C to 49.0°C) in any installation.

The Fike Series 70 Clean Agent Containers can be used in a pre-engineered system, utilizing a balanced piping configuration(s); an engineered system, utilizing unbalanced piping configurations, or a combination of both designs. For assistance, consult your local Fike Distributor or Fike Corporation.

RELIABILITY

Fike Series 70 Clean Agent Containers are manufactured in strict accordance with Department of Transportation (D.O.T.) regulations. The Fike Series 70 Clean Agent Containers have successfully passed testing by Factory Mutual and Underwriters Laboratories, Inc. Before leaving the factory, each container must pass extensive leakage testing, and pressure testing to 1000 psig (69 bar). The containers are constructed from carbon steel alloys and painted with a durable, baked enamel finish.

INSTALLATION

Fike Series 70 Clean Agent Containers are supplied with a mounting bracket that is designed to provide the most effective and versatile installation for that particular container. The 10, 20 and 35 pound (4, 8 and 15 L) container brackets employ two U-bolts for securing the container to the bracket. The 60 pound (27 L) container is secured using two quick connecting, over-center handle clamps. The 125i and 215i pound (51 and 90 L) containers utilize an "L" shaped bracket for direct wall mounting or, with an optional

floor mounting kit, can be mounted on a floor in the "valve down" position. The 100 pound (44 L) and 215 pound (87 L) through 1000 pound (423 L) containers are supplied with one or two U-shaped mounting brackets, depending upon container size, for mounting to a wall or other secure surface.

ARCHITECT SPECIFICATIONS

The Clean Agent shall be stored in Fike Series 70 Clean Agent Storage Containers. The containers shall be capable of being filled, in one pound (0.5kg) increments, to their listed maximum capacity. The Clean Agent container shall be activated by a signal from the control panel which is processed by the Agent Release Module. This module shall store the power required to operate the actuator. The valve shall contain a scored, non-fragmenting, rupture disc to provide an immediate, total discharge of all the agent. HFC-125 Clean Agent is stored in the container as a liquid, having a natural vapor pressure of 200 psig at 77°F (13 barg at 25°C). To aid in discharge, the container shall be super-pressurized to 360 psig at 70°F (25 bar at 21°C) with dry nitrogen. Agent discharge shall be completed in 10 seconds, or less.

Clean Agent Storage Containers shall be actuated by either an electrical manual discharge station, an automatic detection device(s) or an increase in internal pressure due to heating the Clean Agent to approximately 130°F (49.9°C). At this temperature, internal pressure will be adequate to burst the rupture disc, discharging the contents of the container. Normal operating temperature shall be +32°F to +120°F (0°C to 49°C) in any installation.

Clean Agent Storage Containers shall be equipped with a pressure gauge to display internal pressure. This gauge shall be an integral part of the container and color coded for fast referencing of pressure readings. A Low Pressure Supervisory Switch shall be made available, as an option. A decrease in internal container pressure from 360 psig to 288 psig (24.8 bar to 18.8 bar) shall cause the normally opened/closed Supervisory Switch contacts to close/open, indicating a trouble or supervisory condition, at the control panel.

Clean Agent Storage Containers shall be fastened to a wall, or other secure surface, using a one piece mounting bracket that is designed for the most effective and versatile installation of each container.

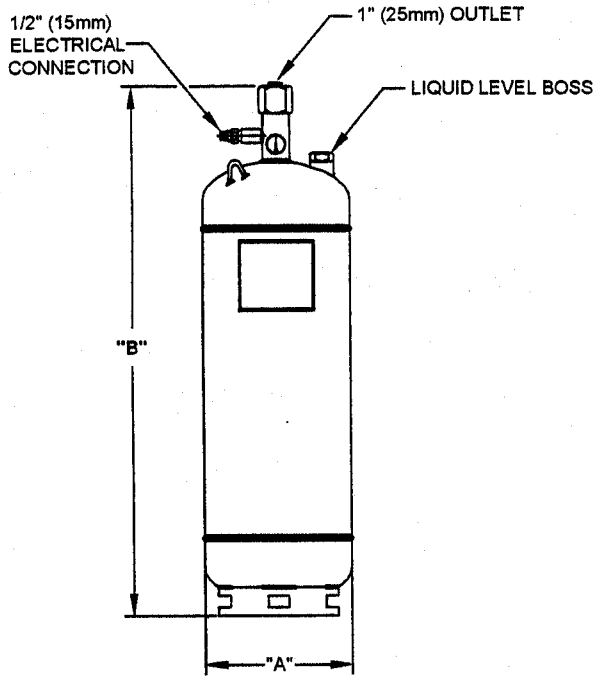
CLEAN AGENT STORAGE CONTAINER DATA - U.S. STANDARD

| FIKE P/N | SIZE (LB) | VALVE (IN) | EMPTY WT (LB) | HFC-125 AGENT FILL RANGE(LBS) | VALVE POSITION | D.O.T. REGULATION |
|-----------------|------------------|-------------------|----------------------|--------------------------------------|-----------------------|--------------------------|
| 70-108 | 10 | 1 | 14 | 4-8 | Horiz. or Upright | 4B500 |
| 70-098 | 20 | 1 | 35 | 8-16 | Horiz. or Upright | 4B500 |
| 70-089 | 35 | 1 | 55 | 14-30 | Horiz. or Upright | 4B500 |
| 70-152 | 60 | 1 | 53 | 25-54 | Horiz. or Upright | 4BW500 |
| 70-153 | 100 | 1 | 60 | 39-87 | Upright | 4BW500 |
| 70-041 | 125i | 2 1/2 | 180 | 46-101 | Inverted | 4BA500 |
| 70-077 | 215i | 2 1/2 | 225 | 80-178 | Inverted | 4BA500 |
| 70-154 | 215 | 3 | 150 | 78-173 | Upright | 4BW500 |
| 70-155 | 375 | 3 | 218 | 136-302 | Upright | 4BW500 |
| 70-156 | 650 | 3 | 350 | 236-528 | Upright | 4BW500 |
| 70-157 | 1000 | 3 | 515 | 374-836 | Upright | 4BW500 |

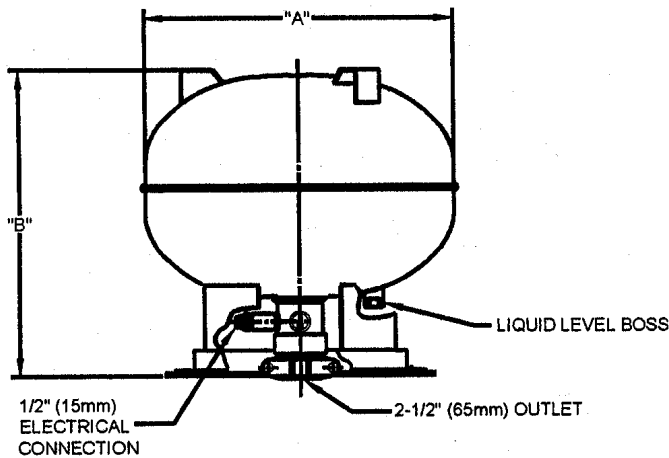
CLEAN AGENT STORAGE CONTAINER DATA - METRIC

| FIKE P/N | SIZE (L) | VALVE (MM) | EMPTY WT (KG) | HFC-125 AGENT FILL RANGE (KG) | VALVE POSITION | D.O.T. REGULATION |
|-----------------|-----------------|-------------------|----------------------|--------------------------------------|-----------------------|--------------------------|
| 70-108 | 4 | 25 | 6.4 | 2.0-3.5 | Horiz. or Upright | 4B500 |
| 70-098 | 8 | 25 | 16.0 | 3.5-7.5 | Horiz. or Upright | 4B500 |
| 70-089 | 15 | 25 | 25.0 | 6.5-13.5 | Horiz. or Upright | 4B500 |
| 70-152 | 27 | 25 | 24.0 | 11.5-24.5 | Horiz. or Upright | 4BW500 |
| 70-153 | 44 | 25 | 27.0 | 18.0-39.0 | Upright | 4BW500 |
| 70-041 | 51 | 65 | 82.0 | 21.0-46.0 | Inverted | 4BA500 |
| 70-077 | 90 | 65 | 103.0 | 36.5-81.0 | Inverted | 4BA500 |
| 70-154 | 87 | 80 | 68.0 | 35.5-78.5 | Upright | 4BW500 |
| 70-155 | 153 | 80 | 99.0 | 61.5-137.0 | Upright | 4BW500 |
| 70-156 | 267 | 80 | 159.0 | 107.0-239.5 | Upright | 4BW500 |
| 70-157 | 423 | 80 | 234.0 | 169.5-379.5 | Upright | 4BW500 |

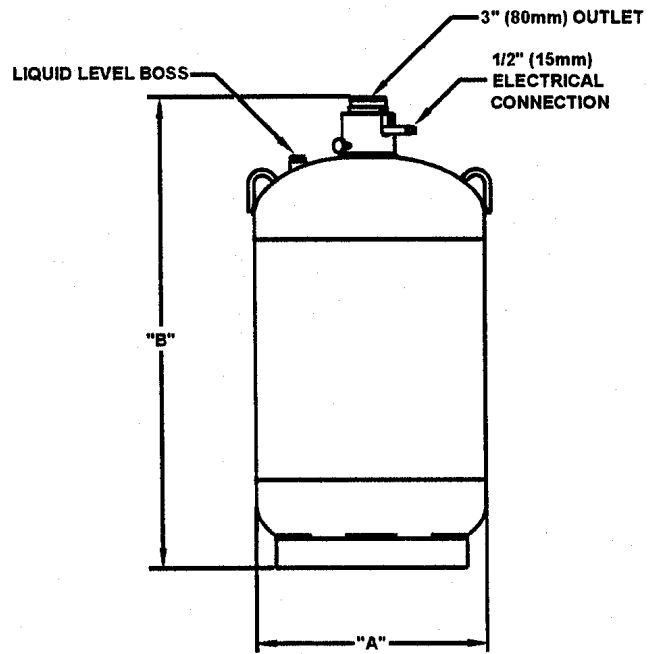
CLEAN AGENT STORAGE CONTAINER DIMENSIONS



10 - 100 LB (4 to 44 L) Container
(LLi on 100LB (44 L) only)



125i & 215i LB (51 to 90 L) Container



215 - 1000LB (87 - 423 L) Container

| U.S. SIZES & DIMENSIONS | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIZE-LB | 10 | 20 | 35 | 60 | 100 | 125i | 215i | 215 | 375 | 650 | 1000 |
| A (in.) | 5.5 | 7.25 | 7.25 | 10.75 | 10.75 | 20.00 | 24.00 | 20.00 | 20.00 | 24.00 | 24.00 |
| B (in.) | 19.75 | 21.50 | 32.50 | 28.00 | 38.75 | 20.25 | 23.75 | 28.87 | 42.50 | 48.75 | 70.00 |
| METRIC SIZES & DIMENSIONS | | | | | | | | | | | |
| SIZE-L | 4 | 8 | 15 | 27 | 44 | 51 | 90 | 87 | 153 | 267 | 423 |
| A (MM) | 140 | 184 | 184 | 273 | 273 | 508 | 610 | 508 | 508 | 610 | 610 |
| B (MM) | 502 | 546 | 826 | 711 | 984 | 515 | 605 | 733 | 1080 | 1237 | 1778 |