

High-Flow Dry Chemical Fire Extinguishers

Features

- Complies with NFPA 10, Section 5.5.4 for pressurized flammable liquids and gasses
- Economically priced
- Meets or exceeds the requirements of ANSI/UL 299 and 711, and ULC S504 and S508
- 240 psi (16.6 bar) operating pressure for maximum performance
- USCG approved with proper bracket
- Simple operation and maintenance
- Trilingual, glare-resistant, one-piece mylar nameplates with distinct High-Flow designation (English, French, and Spanish)
- Rechargeable
- Manufactured of durable high-quality materials
- Choice of Purple-K or ABC dry chemical agents to satisfy specific protection requirements
- Large, easy-to-read pressure gauge
- Manuals and parts lists are available for training purposes
- Six-year limited warranty from the date of delivery to the original end-user purchaser
- Sold and serviced through an international network of independent distributors

Application

The SENTRY High-Flow Extinguishers comply with NFPA 10, Sec. 5.5.4, which defines fire protection for pressurized flammable liquids and gasses as three dimensional and/or gravity fed fuel fires. The extinguishers are large capacity dry chemical fire extinguishers of 10 lb (4.5 kg) agent capacity or greater, with a discharge rate of 1 lb/sec (0.45 kg/sec) or greater.

The SENTRY High-Flow, Stored-Pressure Extinguisher is designed for commercial/compliance markets, with light and ordinary hazards such as:

- Gas/fuel stations
- Construction sites
- Maintenance facilities
- Hazardous material cabinets
- Small paint booths and repair facilities
- Marinas and marine terminals
- Salvage and recycling facilities
- Warehouse and storage



012123

Description

The shells of SENTRY extinguishers are produced by a cold deep draw process that yields a seamless steel cylinder with a high tensile strength. Unique pre-treatment of the raw, low-carbon steel not only consists of a cleaning process, but also applies a special lubricant that helps keep the interior and exterior shell surfaces scratch free.

The collar and specially pre-formed bottom enclosure are MIG welded to produce a smooth, high-integrity weld. Extinguisher shells are 100% factory air tested at 720 psi (49.6 bar).

The powder paint process is superior to conventional liquid based paint systems in its ability to resist blistering, cracking, fading, chipping, and corrosion. Before the extinguisher shells are painted, they are surface treated with a blasting or phosphate bonding process. This enhances the paint adhesion and corrosion resistance.

The specially formulated powder paint is electrostatically applied and oven cured to help ensure complete coverage and uniform paint thickness.

The easy grip extinguisher handles are designed for maximum portability, allowing operators to fight the fire without removing work gloves. Valve bodies are made from a durable extruded aluminum alloy.

The completed valve assemblies feature plated steel valve stems which contain o-ring and seat material compatible with the agent to provide reliable performance and long life.

Description (Continued)

Rugged all-steel pick-up tubes help provide proper and dependable agent flow through the valve body. SENTRY extinguishers have large, color-coded pressure gauges that provide a quick visual indication of unit readiness.

Large 1 1/4 in. (32 mm) diameter coated steel ring pins are utilized and held in place by a visual seal to help prevent accidental discharges. One piece, trilingual, color-coded mylar label with easy-to-read pictograms provides the user with step-by-step operating instructions and the hazard classes for which the extinguisher was designed. The label also contains useful recharge, inspection, operating temperature, and model information.

Large, easy-to-scan QR-coded model and UL/ULC serial numbers simplify inspection and maintenance record keeping.

The valve sub-assemblies are 100% tested for functionality before final assembly. SENTRY extinguishers are vacuum-filled at the factory to precise filling tolerances. 100% leak tested utilizing mass spectrometry technology at pressures of 240 psi (16.5 bar).

The injection molded nozzle tips are designed to tight specifications and maximize the suppression capabilities of the particular model and agent.

SENTRY extinguishers are shipped from the factory in individual recyclable corrugated cardboard cartons, designed and field tested to help ensure your extinguishers arrive undamaged and ready for operation. The glued one-piece cartons have a pressure gauge inspection port.

Cartons of SENTRY extinguishers are correctly labeled according to the latest DOT/TC regulations for ease of shipping in the field.

Dry chemical suppressing agents are manufactured from high quality raw materials and are carefully blended to meet stringent performance specifications. These agents are then tested to be free-flowing, water repellent, and electrically nonconductive.

As a final quality control step, SENTRY extinguishers are randomly sampled for performance testing, which includes weight percent discharge and discharge times.

Agent

ABC Suppressing Agent – A monoammonium phosphate-based agent for use on Class A* and Class B** fires. The agent is a non-conductor of electricity for use on fires with Class C electrical conditions.

Purple-K Suppressing Agent – This potassium bicarbonate-based agent is the most effective dry chemical for knock-down of Class B** fires. The agent is a non-conductor of electricity for use on fires with Class C electrical conditions.

* Class A (wood, paper, cloth)

** Class B (flammable liquids and gases)



Ordering Information

For fire protection assistance, see your nearest Authorized SENTRY Distributor.

Note: The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

SENTRY and the product names listed in this material are marks and/or registered marks. Unauthorized use is strictly prohibited.

Specifications

Dry Chemical Extinguishers	SENTRY High-Flow 10  012123		SENTRY High-Flow 20  012122	
Model	HF-AA10S	HF-PK10S	HF-AA20-1	HF-PK20
Extinguisher Part No. in domestic packaging	440945	440935	440940	440930
Extinguisher Part No. in international packaging	441337	441331	441334	441328
Bracket Part No.	435793	435793	30937	30937
Agent capacity	10 lb (4.54 kg) ABC	10 lb (4.54 kg) Purple-K	20 lb (9.07 kg) ABC	20 lb (9.07 kg) Purple-K
UL/ULC rating	1-A:20-B:C	20-B:C	4-A:60-B:C	60-B:C
Coast Guard classification	Type A, Size II Type B, C, Size II	Type B, C Size II	Type A, Size II Type B, C, Size III	Type B, C, Size III
Discharge time	9.0 seconds	8.9 seconds	18.2 seconds	18.2 seconds
Maximum effective range	25 ft (7.6 m)	25 ft (7.6 m)	30 ft (9.1 m)	35 ft (10.7 m)
Operating temperature range	– 65 °F to 120 °F (– 54 °C to 49 °C)		– 65 °F to 120 °F (– 54 °C to 49 °C)	
Agent flow rate	1.26 lb/sec (0.57 kg/sec)	1.30 lb/sec (0.59 kg/sec)	1.20 lb/sec (0.54 kg/sec)	1.19 lb/sec (0.54 kg/sec)
Charged weight (with agent)	17 lb, 0 oz (7.73 kg)	17 lb, 14 oz (8.13 kg)	32 lb, 2 oz (14.60 kg)	32 lb, 2 oz (14.60 kg)
Dimensions: Height Width Depth	20 1/2 in. (520 mm) 8 1/4 in. (210 mm) 5 1/4 in. (135 mm)		22 1/2 in. (572 mm) 9 1/2 in. (241 mm) 7 7/32 in. (183 mm)	
Fire suppression capability *				
Operator: Novice Experienced	20 ft ² (1.8 m ²) 50 ft ² (4.6 m ²)		60 ft ² (5.5 m ²) 150 ft ² (13.9 m ²)	

* Underwriters Laboratories classifies a novice operator as one who has little or no experience in operating a fire extinguisher.

Approvals: DOT, USCG (All models with proper bracket)

Hydrostatic test requirement: Once every 12 years (all models)

Operating pressure: 240 psi (16.6 bar)

