

## High-Flow Dry Chemical Fire Extinguishers

### Features

- Complies with NFPA 10, Section 5.5 for pressurized flammable liquids and gasses
- Economically priced
- Meets or exceeds requirements of ANSI/UL 299 and 711, or ULC S504 and S508
- 240 psi (16.6 bar) operating pressure for maximum performance
- USCG approved with proper bracket
- Simple operation and maintenance
- Tough, glare-resistant, one-piece mylar nameplates with distinct "High-Flow" designation
- 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 available for training purposes
- Six-year limited warranty from date of delivery to original end-user purchaser
- Sold and serviced through an international network of independent distributors
- Corrosion-Resistant (CR) models available

### Application

The SENTRY High-Flow Extinguishers comply with NFPA 10, Sec. 5.5, 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



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### Description

1. The shells of SENTRY extinguishers are produced by a cold deep draw process which yields a seamless steel cylinder with a high tensile strength.
2. Unique pre-treatment of the raw low carbon steel not only consists of a cleaning process, but also applies a special lubricant which helps keep the interior and exterior shell surfaces scratch free.
3. The collar and specially pre-formed bottom enclosure are MIG welded to produce a smooth, high integrity weld.
4. Extinguisher shells are 100% factory air tested at 720 psi (49.5 bar).
5. The powder paint process is superior to conventional liquid based paint systems in its ability to resist blistering, cracking, fading, chipping, and corrosion.
6. 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.
7. The specially formulated powder paint is electrostatically applied and oven cured to help ensure complete coverage and uniform paint thickness.
8. Easy grip extinguisher handles are designed for maximum portability, allowing operators to fight the fire without removing work gloves.
9. Valve bodies are made from a durable extruded aluminum alloy.
10. 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.
11. Rugged all-steel pick-up tubes help provide proper and dependable agent flow through the valve body.

## Description (Continued)

12. SENTRY extinguishers have large, color-coded pressure gauges which provide a quick visual indication of unit readiness.
13. Large 1 1/4 in. (32 mm) dia. coated steel ring pins are utilized and held in place by a visual seal to help prevent accidental discharges.
14. One piece, multilingual, 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. Label also contains useful recharge, maintenance, inspection, operating temperature, HMIS and model information.
15. Large, easy-to-scan bar coded model and UL/ULC serial numbers simplify inspection and maintenance record keeping.
16. Valve subassemblies are 100% tested for functionality before final assembly.
17. SENTRY extinguishers are vacuum-filled at the factory to precise filling tolerances.
18. 100% leak tested utilizing mass spectrometry technology at pressures of 240 psi (16.5 bar).
19. Injection molded nozzle tips are designed to tight specifications and maximize the suppression capabilities of the particular model and agent.
20. 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.
21. Cartons of SENTRY extinguishers are properly labeled according to the latest DOT/TC regulations for ease of shipping in the field.
22. 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.
23. As a final quality control step, SENTRY extinguishers are randomly sampled for performance testing, which includes weight percent discharge and discharge times.
24. Corrosion-resistant models feature:
  - Extinguisher shells pre-treated with a special iron phosphate bonding process
  - Valve bodies made from a durable extruded brass alloy which is chrome-plated for additional protection
  - Completed valve assembly components resist oxidation with brass valve stems; plated brass hose ferrules and couplings; and stainless steel handle, lever, and ring pin and chain assembly
  - Designed for industrial fire protection needs, especially within chemical or marine environments

## 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 values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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## Specifications

Dry Chemical Extinguishers	SENTRY High-Flow 10		SENTRY High-Flow 20		SENTRY Corrosion-Resistant High-Flow 10		SENTRY Corrosion-Resistant High-Flow 20	
								
<b>Model</b>	HF-AA10S	HF-PK10S	HF-AA20-1	HF-PK20	CR-HF-AA10SI	CR-HF-PK10SI	CR-HF-AA20I-1	CR-HF-PK20I
<b>Part No. (except Canada)<sup>1</sup></b>	440945	440935	440940	440930	441258	441250	441268	441234
<b>Part No. (Canada)<sup>2</sup></b>	441337	441331	441334	441328	441349	441343	441346	441340
<b>Bracket Part No.</b>	435793	435793	30937	30937	435793	435793	30937	30937
<b>Agent Capacity</b>	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	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
<b>UL/ULC Rating</b>	1-A:20-B:C	20-B:C	4-A:60-B:C	60-B:C	1-A:20-B:C	20-B:C	4-A:60-B:C	60-B:C
<b>Coast Guard Classification</b>	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	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
<b>Discharge Time</b>	9.0 seconds	8.9 seconds	18.2 seconds	18.2 seconds	9.0 seconds	8.9 seconds	18.2 seconds	18.2 seconds
<b>Maximum Effective Range</b>	25 ft (7.6 m)	25 ft (7.6 m)	30 ft (9.1 m)	35 ft (10.7 m)	25 ft (7.6 m)	25 ft (7.6 m)	30 ft (9.1 m)	35 ft (10.7 m)
<b>Operating Temperature Range</b>	- 65 °F to 120 °F (- 54 °C to 49 °C)		- 65 °F to 120 °F (- 54 °C to 49 °C)		- 65 °F to 120 °F (- 54 °C to 49 °C)		- 65 °F to 120 °F (- 54 °C to 49 °C)	
<b>Agent Flow Rate</b>	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)	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)
<b>Charged Weight (with agent)</b>	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)	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)
<b>Dimensions:</b>	Height: 20 1/2 in. (520 mm) Width: 8 1/4 in. (210 mm) Depth: 5 1/4 in. (135 mm)		Height: 22 1/2 in. (572 mm) Width: 9 1/2 in. (241 mm) Depth: 7 7/32 in. (183 mm)		Height: 20 1/2 in. (520 mm) Width: 8 1/4 in. (210 mm) Depth: 5 1/4 in. (135 mm)		Height: 22 1/2 in. (572 mm) Width: 9 1/2 in. (241 mm) Depth: 7 7/32 in. (183 mm)	
<b>Fire Suppression Capability<sup>3</sup></b>								
<b>Operator:</b>	Novice: 20 ft <sup>2</sup> (1.8 m <sup>2</sup> ) Experienced: 50 ft <sup>2</sup> (4.6 m <sup>2</sup> )		Novice: 60 ft <sup>2</sup> (5.5 m <sup>2</sup> ) Experienced: 150 ft <sup>2</sup> (13.9 m <sup>2</sup> )		Novice: 20 ft <sup>2</sup> (1.8 m <sup>2</sup> ) Experienced: 50 ft <sup>2</sup> (4.6 m <sup>2</sup> )		Novice: 60 ft <sup>2</sup> (5.5 m <sup>2</sup> ) Experienced: 150 ft <sup>2</sup> (13.9 m <sup>2</sup> )	

1. UL Listed. English/Spanish nameplates.

2. ULC Listed. English/Canadian French nameplates.

3. 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)