

RED LINE HIGH FLOW HAND PORTABLE FIRE EXTINGUISHERS

MODELS 20, 30

Features

- Rugged, durable, reliable fire protection
- Ergonomically designed for maximum operator performance
- Meets or exceeds requirements of ANSI/UL 299 and 711, and UL S504 and S508
- Designed for pressurized flammable liquids and pressurized gas fires and other special hazards where agent flow rate is crucial to extinguishment
- Meets NFPA 10 (2022 Edition) Paragraph 5.5.4.1* and 5.5.4.2*, NFPA30a Paragraph 9.2.5.3.2 through 9.2.5.3.5 and NFPA 385 Paragraph 9.3.1.1
- USCG approved with proper bracket
- Red nozzle handle for High-Flow identification purposes
- Simple and safe operation
- Maintenance checks can be easily made on every moving part
- Field rechargeable
- Available in two sizes (20 and 30 lbs)
- Choice of dry chemical agents to satisfy specific protection requirements
- First response fire fighting training available at the ANSUL® Fire School or through trained distributors
- Manual, parts lists, and training videos are available
- Twelve-year limited warranty
- Sold and serviced through our network of authorized distributors

Applications

High-flow extinguishers are essential for effectively managing specific fire hazards as outlined in NFPA 10 Section 5.5.4. For pressurized liquid and gas fires, three-dimensional fires, and obstacle fires, large-capacity dry chemical extinguishers of 10 lb or greater with a discharge rate of at least 1 lb/sec are recommended. These extinguishers are crucial for providing rapid knock-down power and effective fire suppression in these challenging scenarios.

Description

- **Rugged Construction:** Three piece steel assembly with seamless welded tube, spun top, and machined collar.
- **Ergonomic Handle:** Forged aluminum handle positions extinguisher at a 45° angle for easy carrying.
- **Robust Pressure Testing:** Hydrostatically tested at three times the operating pressure (600 PSI / 41.41 bar), designed to withstand six times the normal pressure.
- **Permanent Markings:** UL, ULC, and FM listings, along with rating and model information, are permanently marked on the fill collar.



- **Durable Cartridge Receiver:** Cast aluminum construction with stainless steel insert to prevent thread wear.
- **Moisture-Resistant Pin:** Stainless steel puncture pin sealed with felt washers for moisture protection and lubrication.
- **Fast Recharge:** Large three-inch fill opening allows for quick recharging.
- **Secure Fill Cap:** Forged aluminum cap seals the shell, protecting the agent from contamination.
- **Tight Seals:** Flat gasket and quad ring on the fill cap ensure a gas- and moisture-tight seal.
- **Vibration Resistant:** Spring-loaded handle prevents movement during vibration.
- **Convenient Hanger Attachment:** Easily removable from wall bracket for quick access.
- **Durable Nameplates:** Etched aluminum nameplates with varnish coating for durability and corrosion resistance.
- **User-Friendly Instructions:** Front nameplate features clear instructions and pictograms for easy operation.
- **Maintenance Information:** Back nameplate includes after-use guidance, inspection info, and operating temperature ranges.
- **Inspection Seal Ready:** Shell connection coupling is internally machined for an inspection seal and retaining ring.
- **Corrosion-Resistant Nozzle:** Cast aluminum nozzle body with stainless steel components for enhanced durability.
- **High-Flow Identification:** Nozzle handle is color-coded red for quick identification.
- **Reliable Plunger Assembly:** Nozzle plunger has guide bushings to ensure proper seating and gas tightness.
- **Effective Agent Direction:** Nozzle design directs agent downward for optimal fire extinguishment.
- **Stream Design:** Optimized flow design delivers a powerful, focused stream for maximum effectiveness.
- **Efficient Gas Discharge:** Steel gas tube with rubber check valves generates multidirectional gas streams for fluidizing dry chemical.
- **Optimized Agent Outlet:** Machined low carbon steel elbow maximizes dry chemical discharge at a 45° angle.

Description

- **Temperature:** Models listed and approved for operation in environments with temperatures between -40 F to 120 F (-40 C to 48.8 C)
- **Temperature-Resistant Hose:** UL 92 approved discharge hose operates effectively from -65 F to 120 F (-53.8 C to 48.8 C)
- **Final Air Testing:** Assembly undergoes a final air test at 240 PSI (16.6 bar), stamped with the year of manufacture.
- **DOT-Compliant Cartridges:** Spun steel expellant gas cartridges meet DOT 3E-1800 and Transport Canada (TC) specifications.
- **Reliable Sealing:** Cartridges are sealed with a brass assembly featuring a copper seat, meeting Johnson Controls quality and UL/ULC standards.
- **Surface Preparation:** Painted steel parts undergo extensive surface prep, including degreasing and non-chromate sealing.
- **Durable Coating:** Parts are electrostatically coated with polyester powder and oven-cured for durability.
- **UV-Resistant Guard:** Composite cartridge guard made of fiber-filled polypropylene resists UV degradation.
- **Integrated Design:** Composite guard features an integral nozzle holster and hose retainer tab for visual seal attachment. Removal is prevented until the inspection seal is broken.

Specifications

Model	HF-I-A-20-G-1	HF-I-K-20-G-1	HF-I-A-30-G-1	HF-I-K-30-G-1
Part No. UL	447401	447403	447402	418273
Part No. ULC	440365	440364	440367	440366
Agent	FORAY	Purple-K	FORAY	Purple-K
Capacity	17 lb (7.7 kg)	18 lb (8.2 kg)	25 lb (11.3 kg)	27 lb (12.3 kg)
UL/ULC Rating	1-A:20-B:C	20-B:C	1-A:20-B:C	20-B:C
USCG Classification (marine)	Type A, Size II Type B:C, Size II	Type B:C Size III	Type A, Size II Type B:C, Size III	Type B:C, Size IV
Discharge Time	12 sec	12 sec	12 sec	12 sec
Agent flow rate	1.55 lb/sec (0.70 kg/sec)	1.55 lb/sec (0.70 kg/sec)	2.10 lb/sec (0.95 kg/sec)	2.35 lb/sec (1.10 kg/sec)
Effective Range	15-20 ft (4.6-6.1 m)	15-20 ft (4.6-6.1 m)	15-20 ft (4.6-6.1 m)	15-20 ft (4.6-6.1 m)
Approvals	UL, ULC, FM, USCG*	UL, ULC, FM, USCG*	UL, ULC, FM, USCG*	UL, ULC, FM, USCG*
Brackets: Multipurpose* Heavy Duty* Heavy Duty Ring Pin*	14091 30759 15665	14091 30759 15665	14098 30889 25428	14098 30889 25428
Charged Weight	35 lb (15.9 kg)	36 lb (16.3 kg)	49.5 lb (22.5 kg)	51.5 lb (23.4 kg)
Dimensions: Height Width Depth	20.5 in. (521 mm) 10.4 in. (264 mm) 7.0 in. (178 mm)	20.5 in. (521 mm) 10.4 in. (264 mm) 7.0 in. (178 mm)	22.5 in. (572 mm) 11.1 in. (283 mm) 8.0 in. (203 mm)	22.5 in. (572 mm) 11.1 in. (283 mm) 8.0 in. (203 mm)
Shell OD	6.0 in. (152 mm)	6.0 in. (152 mm)	7.0 in. (175 mm)	7.0 in. (175 mm)

*USCG Approved only with bracket.

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

Agents

FORAY Dry Chemical

A monoammonium phosphate-based agent for use on Class A (wood, paper, cloth), Class B (flammable liquids and gases), and Class C (electrical) fires.

PURPLE-K Dry Chemical

A potassium bicarbonate-based agent which is the most effective ANSUL® agent for knock-down of Class B (flammable liquids and gases) and Class C (electrical) fires.

Ordering Information

For fire protection assistance, contact your nearest Authorized Distributor.

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