

RED LINE HAND PORTABLE EXTINGUISHERS MODELS 10, 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 ULC S504 and S508.
- USCG approved with proper bracket.
- Simple and safe operation.
- Maintenance checks can be easily made on every moving part.
- Field rechargeable
- Available in three sizes (10, 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 independent distributors.

Applications

Red Line dry chemical extinguishers are designed for the protection of ordinary and high risk hazards. This hand portable extinguisher is used in industries where the occurrence or possibility of fire is high. The Red Line extinguisher has set the standard for reliable fire protection in many industries and applications including refining, petrochemical, oil and natural gas production, mining, transportation, utilities, metal processing, paint process areas, welding areas, material storage areas, and many others.

Enhancements

Corrosion Resistant (CR)

- In addition to the standard surface preparation procedures, the steel parts are primed using a zinc rich primer with a minimum zinc content of 90%.
- The top coat is a polyester paint applied as a powder and oven cured. The dry film is continuous and is a minimum thickness of 1.5 mils.
- The hose couplings, fill cap, carrying handle, nozzle body, nozzle lever, nozzle tip and cartridge receiver push lever are black anodized for added corrosion resistance.
- The cartridge receiver body is painted with an epoxy paint for added protection in corrosive environments.



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Ring Pin (RP)

- The ring pin, when inserted in the cartridge receiver, provides secondary protection against accidental actuation of the unit when the hose is not in place.
- The operating instruction nameplate notes the removal of ring pin before actuation of the extinguisher.

Low Temperature (LT)

- The LT model is equipped with a nitrogen cartridge and cartridge receiver which is listed and approved for operation in environments with temperatures as low as -65 °F (-54 °C).

Description

- The rugged dry chemical shell is a three piece steel assembly consisting of a seamless welded tube with a spun top, a bottom closure, and a machined collar.
- A forged, non-slip aluminum handle positions the extinguisher at optimum 45° angle for easy carrying.
- Each finished shell assembly is hydrostatically tested at three times the operating pressure (600 psi (41.4 bar)) and is designed to withstand a pressure of six times the normal operating pressure.
- UL/ULC and FM listing mark, rating and model information are permanently marked on the fill collar.
- The cartridge receiver is made of cast aluminum with a stainless steel insert to prevent thread wear.
- The stainless steel puncture pin is sealed with impregnated felt washers which seal against moisture and provide lubrication to the pin.
- The large three-inch fill opening allows for fast and easy recharge.

Description (Continued)

- The large forged aluminum fill cap seals the shell, protecting the agent from contamination.
- The flat gasket and quad ring on the fill cap provide a gas and moisture tight seal.
- The handle is spring loaded to prevent movement during vibration.
- The hanger attachment is located on the extinguisher to allow for easy removal from wall bracket.
- Operating and maintenance nameplates are trilingual (English, French, and Spanish) from etched aluminum with a varnish coating to provide durability, readability and corrosion resistance.
- The front operating nameplate has easy to understand instructions and pictograms for the inexperienced operator.
- The back maintenance nameplate contains after-use and maintenance information, useful recharge, inspection, operating temperatures and model information, and a scannable QR-coded model designation and fire class rating to simplify inspection and maintenance record keeping.
- QR code compatible with BuildingReports® or similar platforms
- Standard models are equipped with N₂ cartridges and receivers which are listed and approved for operation in environments with temperatures between -65 °F to 120 °F (-53.8 °C to 48.8 °C).
- Hose couplings are corrosion resistant aluminum alloy. The shell connection coupling is equipped with an O-ring to provide a proper seal.
- The shell connection coupling is internally machined to accept an inspection seal and retaining ring.
- The nozzle body is cast aluminum with component parts of stainless steel and other corrosion resistant materials.
- The nozzle plunger assembly is provided with two guide bushings to assure proper seating when used with intermittent discharge, thus providing gas and water tightness.
- The nozzle design directs the nozzle body downward when the nozzle is squeezed, directing the agent stream at the base of the fire and increasing the chance of extinguishment.
- The nozzle tips feature a converging-diverging design to give an expanded round stream of dry chemical.
- The steel gas tube is designed with two rubber check valves clamped in place. The check valves, which cover the gas discharge holes, produce multidirectional gas streams to fluidize the dry chemical agent.
- The agent outlet elbow is machined from low carbon steel barstock and allows for maximum discharge of the dry chemical when the extinguisher is held at the normal 45° angle.
- The discharge hose is ethylene propylene diamine and is UL 92 approved for use at temperatures of -65 °F to 120 °F (-53.8 °C to 48.8 °C).
- The completed assembly is subjected to a final production air test of 240 psi (16.6 bar) and stamped to indicate year of manufacture.
- Expellent gas cartridges are fabricated of one-piece spun steel in accordance with DOT 3A-2100 (Nitrogen) and Transport Canada (TC) specifications.



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- Cartridges are sealed with a brass seal assembly utilizing a copper seat. The seal assembly has ANSUL® printed on it, indicating the seal meets or exceeds Johnson Controls quality levels and UL/ULC requirements.
- Low temperature nitrogen cartridge seal has a safe rupture pressure range of 3150 to 3500 psi (217 to 241 bar) in a temperature range of 195 °F to 210 °F (91 °C to 99 °C).
- Painted steel parts are prepared by going through a series of surface preparation steps, including degreasing, an acid pickling process, zinc phosphate bonding and non-chromate sealing.
- Parts are then painted using an electrostatically applied polyester powder coating and oven cured.
- The cartridge guard is made of a composite consisting of fiber filled, polypropylene and various additives to resist UV degradation and maintain strength and integrity.



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- The composite guard is designed with the nozzle holster as an integral part of the one piece construction. It contains a hose retainer tab which can be used to attach the visual seal. The guard is designed to prevent its removal unless the inspection seal is broken.

Note: The Model 10 cartridges with two-piece construction are exempt from DOT requirements (due to volume) and are made in accordance with UL/ULC specifications.

Description (Continued)

| Model | RL-PK-10-G | RL-BC-10-G | RL-A-10-G | RL-PK-20-G | RL-BC-20-G |
|---|--|--|---|--|---|
| Part No. | 445449 | 445450 | 445451 | 445452 | 445453 |
| Agent | Purple-K | PLUS-FIFTY C | FORAY | Purple-K | PLUS-FIFTY C |
| Capacity | 9 lb (4.1 kg) | 10 lb (4.5 kg) | 8.5 lb (3.7 kg) | 18 lb (8.2 kg) | 20 lb (9.1 kg) |
| UL/ULC Rating | 60-B:C | 40-B:C | 4-A:40-B:C | 80-B:C | 60-B:C |
| Coast Guard Classification | Type B:C, Size II | Type B:C, Size II | Type A, Size II Type B:C, Size I | Type B:C, Size III | Type B:C, Size III |
| Discharge Time | 19 sec | 15 sec | 15 sec | 21 sec | 22 sec |
| Flow Rate | 0.53 lb/sec (0.24 kg/sec) | 0.62 lb/sec (0.28 kg/sec) | 0.50 lb/sec (0.22 kg/sec) | 0.89 lb/sec (0.40 kg/sec) | 0.90 lb/sec (0.40 kg/sec) |
| Effective Range | 25 ft (7.6 m) | 21 ft (6.4 m) | 17 ft (5.2 m) | 30 ft (9.1 m) | 24 ft (7.3 m) |
| Approvals | UL, ULC, FM, USCG** | UL, ULC, FM, USCG** | UL, ULC, FM, USCG** | UL, ULC, FM, USCG** | UL, ULC, FM, USCG** |
| Brackets • Multipurpose*** • Heavy Duty*** • Heavy Duty Ring Pin*** | 14228 30886 N/A | 14228 30886 N/A | 14228 30886 N/A | 14091 30759 15665 | 14091 30759 15665 |
| Charged Weight | 21 lb (9.5 kg) | 22 lb (10.0 kg) | 20.5 lb (9.3 kg) | 36 lb (16.3 kg) | 38 lb (17.2 kg) |
| Dimensions: Height Width Depth | 16.1 in. (409 mm) 8.3 in. (209 mm) 5.3 in. (133 mm) | 16.1 in. (409 mm) 8.3 in. (209 mm) 5.3 in. (133 mm) | 16.1 in. (409 mm) 8.3 in. (209 mm) 5.3 in. (133 mm) | 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) |
| Fire Suppression Capability* Novice Operator Experienced Operator | 60 ft ² (5.6 m ²) 150 ft ² (13.9 m ²) | 30 ft ² (2.8 m ²) 75 ft ² (6.9 m ²) | 40 ft ² (3.7 m ²) 100 ft ² (9.3 m ²) | 80 ft ² (7.4 m ²) 200 ft ² (18.6 m ²) | 40 ft ² (3.7 m ²) 100 ft ² (9.3 m ²) |

| Model | RL-A-20-G | RL-PK-30-G | RL-BC-30-G | RL-A-30-G | |
|---|--|--|--|--|--|
| Part No. | 445454 | 445455 | 445456 | 445457 | |
| Agent | FORAY | Purple-K | PLUS-FIFTY C | FORAY | |
| Capacity | 17 lb (7.7 kg) | 27 lb (12.3 kg) | 30 lb (13.6 kg) | 25 lb (11.3 kg) | |
| UL/ULC Rating | 6-A:60-B:C | 120-B:C | 80-B:C | 10-A:80-B:C | |
| Coast Guard Classification | Type A, Size II Type B:C, Size II | Type B:C, Size IV | Type B:C, Size IV | Type A, Size II Type B:C, Size III | |
| Discharge Time | 22 sec | 27 sec | 32 sec | 26 sec | |
| Flow Rate | 0.77 lb/sec (0.35 kg/sec) | 0.99 lb/sec (0.45 kg/sec) | 0.87 lb/sec (0.39 kg/sec) | 0.89 lb/sec (0.40 kg/sec) | |
| Effective Range | 20 ft (6.1 m) | 30 ft (9.1 m) | 23 ft (7.0 m) | 20 ft (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 | 14098 30889 25428 | 14098 30889 25428 | 14098 30889 25428 | |
| Charged Weight | 35 lb (15.9 kg) | 51.5 lb (23.4 kg) | 54.5 lb (24.7 kg) | 49.5 lb (22.5 kg) | |
| Dimensions: Height Width Depth | 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) | 22.5 in. (572 mm) 11.1 in. (283 mm) 8.0 in. (203 mm) | |
| Fire Suppression Capability* Novice Operator Experienced Operator | 60 ft ² (5.6 m ²) 150 ft ² (13.9 m ²) | 120 ft ² (11.1 m ²) 300 ft ² (27.9 m ²) | 60 ft ² (5.6 m ²) 150 ft ² (13.9 m ²) | 80 ft ² (7.4 m ²) 200 ft ² (18.6 m ²) | |

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

** U.S.C.G. Approved only with bracket *** Corrosion resistant epoxy painted brackets also available.

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.

PLUS-FIFTY C Dry Chemical

A sodium bicarbonate-based agent for use on Class B (flammable liquids and gases) and Class C (electrical) fires.

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

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