

Full Service Halon and Clean Agent Specialist

**SOLUTIONS FOR TODAY'S CHALLENGES**



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**From A Single Fire Extinguisher... To Halon For A 10,000 lb. System Tank**



**"The people you do business with should make your business better."**

**A Letter from our President**

H3R is recognized nationally and internationally for providing high quality fire protection products and services. While H3R has been in the fire protection market for many years, its mission was expanded with the advent of regulatory controls on the production and use of Halon. Production of Halon was halted in the U.S. in 1994 and various measures have been taken in the international markets. A key role for H3R is the responsible management and redeployment of Halon to essential users, such as the aviation industry, for which an effective alternative is yet to be developed. We monitor the ongoing developments in the Halon and Halon alternatives markets worldwide, and feel confident in our ability to offer products, services, and guidance to our customers so that their purchasing decisions make good strategic sense.

The FAA continues to require Halon on board all commercial aircraft. H3R's aviation Halon fire extinguishers are distributed worldwide for use in both pleasure and commercial aircraft. Many aircraft OEM's use only H3R's fire extinguishers exclusively. H3R's Halon 1211-1301 blend is widely accepted in the aircraft market due to its 20 year estimated shelf life with no servicing requirements.

The newly developed Halon replacement products are generally more costly and require significantly more agent to achieve the same effectiveness as Halon. So, demand for Halon continues in the home, vehicle, industrial and commercial markets. There is a suitable unit for a broad range of requirements, with extinguisher sizes ranging from 1.25 pounds to 17 pounds. We also offer Halotron, a Halon 1211 replacement product, in 4 extinguisher sizes.

H3R is a major buyer, seller, and recycler of Halon 1211 and 1301. Our recycling centers are conveniently located throughout the U.S. We offer a full service production shop for rebuilding and recharging Halon 1301 and FM 200 cylinders.

H3R, Inc. is proud to be a member of these national organizations: National Fire Protection Association; National Association of Fire Equipment Distributors; Aircraft Rescue & Fire Fighting Working Group; California Association Licensed Services and Fire Equipment; Halon Alternatives Research Corporation; Halon Recycling Corporation; and Fire Suppression Systems Association.

We hope you'll call on H3R for your fire protection needs - personal or commercial, fire extinguisher or suppression system, Halon or Halon alternatives. We look forward to being of service to you.

Stephen A. Berg  
President

**PROTECT WHAT IS IMPORTANT**

For use on the following types of fire



Underwriters Laboratory



Trash, wood & paper



Flammable liquids & gases



Electrical equipment

**Halon is the Most Effective Extinguishing Agent Available for Aviation Fire Protection**



Ultimate Effectiveness



Underwriters Laboratory

### Aviation Halon Fire Protection

Halon 1211 and 1301 or "Halon Blends" are liquefied compressed gasses which stop the spread of fire by chemically interrupting combustion. Halon is odorless, colorless, electrically nonconductive, leaves no residue after use and is "people safe." Our blend units have a manufacturer's suggested shelf life of 20 years with almost zero maintenance.

Halon 1211 units are an extremely effective extinguisher solution for aviation use, and use streaming 1211 propelled by nitrogen. These units are rechargeable.

### Halon 1211 and 1301 Fire Extinguishers



Tested to ANSI/UL 711 & 1093. UL listed. Produced for "Aviation Fire Protection Only" to meet the new EPA (40 CRF Part 82) requirements for Halon Blends.

### Halon 1211 Fire Extinguishers

Fire Extinguisher with Gauge



\* Engineered Drawings available online at: [www.h3r.com/products/engineered.htm](http://www.h3r.com/products/engineered.htm). Aviation fire extinguishers are sold through aviation distributors worldwide.

**H3R, Inc., is your "one-stop-shop" for all your Halon needs.**



Underwriters Laboratory

### Halon 1211 Cargo Bay Fire Extinguisher



- Three 16 lb. fire extinguishers meet the 48 lb. FAA requirement.
- PMA approval for all Boeing & McDonald Douglas aircraft.
- Steel cylinder - meets DOT requirements.
- Discharge Head - molded aluminum anodized for corrosion and rust prevention.
- FAA approved servicing locations throughout United States and internationally.

### Aluminum Wands

- 6 ft. fixed wand with 30°, 45°.
- 8 ft. fixed wand with 90°.
- 4 1/2 ft. - 8ft. adjustable wand with 90° intermittent locking positions.
- Quick release coupling for attachment to extinguisher outlet nozzle.
- Maintenance free.
- Safety color yellow.



### Bracket Model 40-0103



- Material - Metal; Gross Wt. - 13 lb; Height - 16"; Width - 7 1/2"
- Depth-diameter - 8"; Approvals - PMA.
- Same bracket for Boeing and McDonald Douglas aircraft. Mounting holes are different.
- (P/N 49-0031-01) = Boeing Aircraft.
- (P/N 49-0031-03) = McDonnell Douglas.

Model	Capacity	Gross Wt.	Range	Discharge time	Height	Width	Bracket	U/L Rating
RT A400	14 oz.	1 lb. 3 oz.	4-6 ft.	10-12 sec.	8.75 in.	3 in.	Metal Strap	2B:C
RT A600	1 lb. 3 oz.	1 lb. 12 oz.	6-8 ft.	10-12 sec.	10 in.	3 in.	Metal Strap	2B:C
RT A1200	2.5 lbs.	3 lb. 7 oz.	7-9 ft.	14-16 sec.	12 in.	5.75 in.	Metal Strap	5B:C
A1600	3 lb. 8 oz.	5 lb. 2 oz.	8-10 ft.	14-16 sec.	13.7 in.	3.7 in.	Metal Strap	1A:5B:C
A344T	1.25 lb.	2 lb. 4 oz.	9-12 ft.	10 sec.	10 in.	3.5 in.	Metal Strap	2A:10B:C
A352T	2.5 lb.	4 lb. 14 oz.	9-15 ft.	10 sec.	14.5 in.	4.5 in.	Metal Strap	5B:C

### Halon 1211 Wheeled Units Model Amerex 600

Easily operated by one person, these units are an exceptional fire fighting resource. Superior to portable extinguishers in agent capacity, flow rate, and range.

- 150 lb. Halon 1211; Fire Rating - 30A-240B:C.
- Sandblasted and painted.
- Hydro tested 2002.
- 6 year maintenance.
- Inside cylinder cleaned.
- Fully reconditioned & rebuilt valve.
- Towing 100 P included.



Maximum protection for people and property

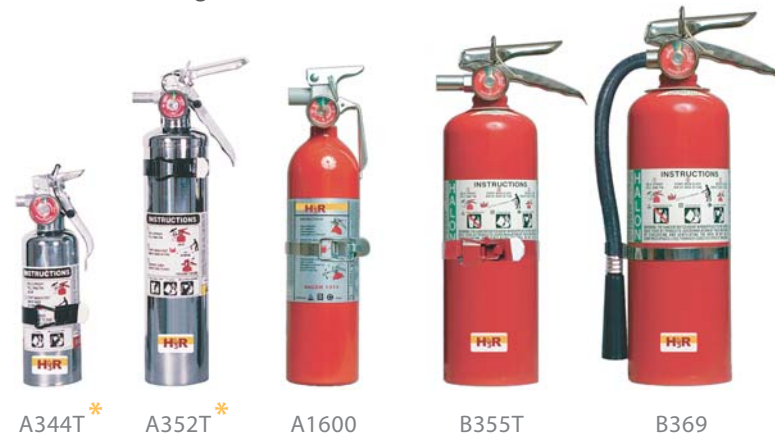


## Home & Vehicle Halon Fire Protection

- Halon is the most effective extinguishing agent available for applications listed.
- Leaves no residue that can destroy your car's engine, interior, electrical system and paint.
- Effective on chemical fires, flammable liquids and electrical fires.
- Great for use in the home or workshop.
- Made with 100% recycled Halon 1211.

### 1211 Halon Fire Extinguisher

Fire Extinguishers with Gauge

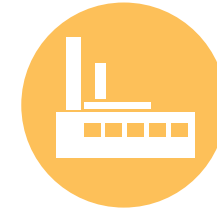


\*Canister Color Available in Chrome or Red

### Applications

- Home/Office
- Automotive
- Boats
- RV's

From 2.5 lb. to 17 lb.

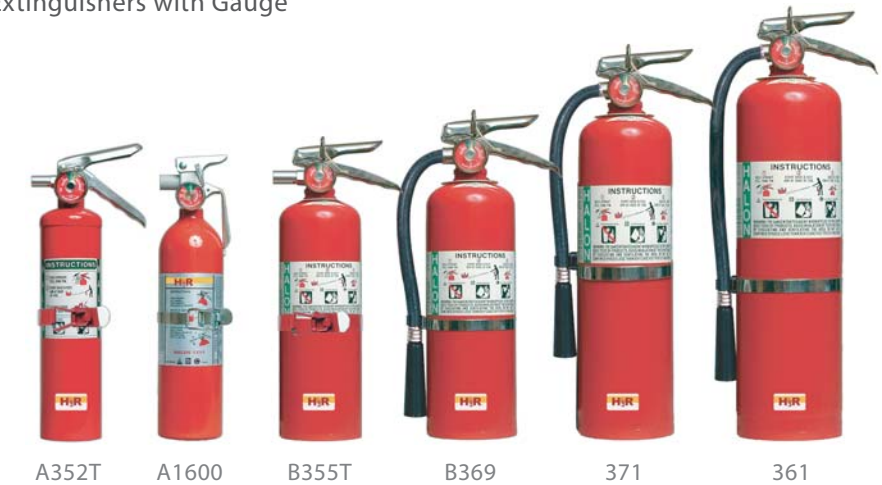


## Industrial & Commercial Halon Fire Protection

- Colorless, odorless, and non-staining.
- Compact, lightweight and easy to operate.
- Non-corrosive and non-conductive.
- No impairment of operator's vision.
- Effective on chemical fires, flammable liquids and electrical fires.
- Tested to ANSI/UL 711 & 1093. UL listed.
- 6 year maintenance, and 12 year hydrostatic test per NFPA 10, Chapter 4.
- Made with 100% recycled Halon 1211.

### 1211 Halon Fire Extinguisher

Fire Extinguishers with Gauge



### Applications

- Industrial
- Computer Rooms
- Clean Rooms
- Laboratories
- Manufacturing
- Telecommunications
- Power Generation
- Film & Tape
- Automotive
- Medical Facilities
- Storage Areas

Model	Capacity	Gross Wt.	Range	Discharge time	Height	Width	Bracket	U/L Rating
A344T	1.25 lb.	2 lb. 4 oz.	9-12 ft.	10 sec.	10 in.	3.5 in.	Metal Strap	2B:C
A352T	2.5 lb.	4 lb. 14 oz.	9-15 ft.	10 sec.	14.5 in.	4.5 in.	Metal Strap	5B:C
A1600	3 lb. 8 oz.	5 lb. 2 oz.	8-10 ft.	14-16 sec.	13.7 in.	3.7 in.	Metal Strap	1A:5B:C
B355T	5 lb.	8 lb 2oz.	9-15 ft.	10 sec.	15.25 in.	6 in.	Metal Strap	10B:C
B369	9 lb.	15 lb. 4 oz.	12-18 ft.	9 sec.	16 in.	8.5 in.	Wall	1A:10B:C

Model	Capacity	Gross Wt.	Range	Discharge time	Height	Width	Bracket	U/L Rating
A352T	2.5 lb.	4 lb. 14 oz.	9-15 ft.	10 sec.	14.5 in.	4.5 in.	Metal Strap	5B:C
A1600	3 lb. 8 oz.	5 lb. 2 oz.	8-10 ft.	14-16 sec.	13.7 in.	3.7 in.	Metal Strap	1A:5B:C
B355T	5 lb.	8 lb 2oz.	9-15 ft.	10 sec.	15.25 in.	6 in.	Metal Strap	10B:C
B369	9 lb.	15 lb. 4 oz.	12-18 ft.	9 sec.	16 in.	8.5 in.	Wall	1A:10B:C
371	13 lb.	19 lb. 14 oz.	12-18 ft.	14 sec.	20 1/2 in.	8.5 in.	Wall	2A:40B:C
361	17 lb.	35 lb.	12-18 ft.	22 sec.	23.5 in.	9.5 in.	Wall	4A:80B:C

## Stored Pressure Fire Extinguishers



## Halotron 1 - Clean Agent Alternative

Halotron is a clean fire extinguishing agent intended to replace Halon 1211 in streaming applications. NFPA 2001, "Standard on Clean Agent Fire Extinguishing Systems" defines a "Clean Agent" to be "electrically non-conducting, volatile, or gaseous fire extinguishant that does not leave a residue upon evaporation." Halotron is a safe, effective, environmentally acceptable replacement for Halon 1211. It is discharged as a liquid that rapidly evaporates.

### Clean Agent Fire Extinguishers

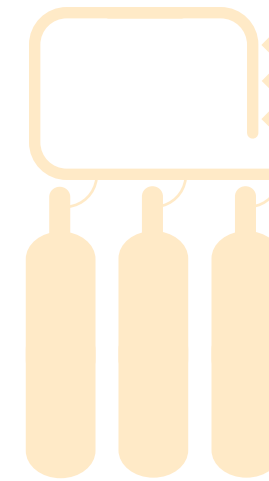
Halotron 1



### Application Areas for the Halotron I

- Home and Vehicle
- Buildings, Offices, Laboratories & Clean rooms
- Manufacturing and Textiles
- Machinery and Farm Equipment
- Vessels and Yachts
- Electrical equipment and Power plants

## Halon Specialists



**Call 1-800-249-4289 or email [info@h3r.com](mailto:info@h3r.com) today for a price quote and we'll ship your order as early as tomorrow!**

## H3R Sells & Services Halon & FM 200

H3R has Halon 1211, 1301 & FM 200 available for immediate shipment in bulk storage cylinders:

- Halon 1211 - 200 lb., 250 lb., 1000 lb., and 1500 lb.
- Halon 1301 - 150 lb., 500 lb., and 2000 lb.
- FM 200 - standard industry sizes

Cylinders are loaned to the customer and returned freight paid by H3R if returned within the agreed upon time period.

### Halon 1301 & FM 200 Recharging

Our full service recycling facilities are strategically located in service centers throughout the US.

H3R can reclaim and/or transfer the agent into your cylinders or ours. We rebuild heads and hydro cylinders at a nominal charge. Most manufacturer's rebuild kits are available. If a specific cylinder type is needed, and we have one in stock, H3R will provide, in many cases, the cylinder at no charge.

Upon shipment, H3R faxes you the bill of lading, enabling you to track your order with the freight company.

H3R is in compliance with EPA requirements for handling and disposing of Halon and Halon containing equipment.

We specialize in dumps because of our fast turnaround time. We guarantee a ship date and meet our delivery commitments.

## HALOTRON IS AN ENVIRONMENTALLY SAFE ALTERNATIVE

Model	Capacity	Gross Wt.	Range	Discharge time	Height	Width	Bracket	U/L Rating
A384T	1.4 lb.	3.5 lb.	6-8 ft.	9 sec.	10 in.	3.5 in.	Vehicle	1B:C
A385TS	2.5 lb.	5.25 lb.	6-10 ft.	9 sec.	14.75 in.	5.5 in.	Vehicle	2B:C
A386T	5 lbs.	9 lb.	9-15 ft.	9 sec.	15.25 in.	5.75 in.	Veh./Marine	5B:C
397	11 lb.	23.5 lb.	9-15 ft.	9 sec.	20.5 in.	9.25 in.	Wall	1A:10B:C
398	15.5 lb.	28 lb.	12-18 ft.	14 sec.	20.5 in.	9.25 in.	Wall	2A:10B:C

## RECYCLE REDEPLOY REPLACE

### Customer's Comment

"We have enjoyed our relationship with H3R for many years. Their knowledge of Halon products and professionalism has been a substantial part in the growth of our Company. We look forward to the continued sales and service that H3R provides for many years to come."

**-- A California Fire Extinguisher Service Company**

### 3 Day Turnaround Halon Purchasing Program



Call 1-800-249-4289 or email [info@h3r.com](mailto:info@h3r.com) today for a price quote and we'll pick up your Halon as early as tomorrow!

### H3R Purchases Halon & FM 200

With our considerable economies of scale, sellers can be assured they will receive top dollar for Halon or FM 200.

EPA Regulation 40 CFR Part 82 states that the halon can only be disposed of by sending the halon for recycling to a facility operating in accordance with NFPA standards 10 & 12.

### H3R Purchases

- Halon 1211 in fire extinguishers and storage cylinders.
- Halon 1301 in manufacturer's system cylinders and storage cylinders.
- FM 200 in manufacturer's system cylinders and storage cylinders.

### 3 Day Turnaround Halon Purchasing Program

We fax you a Purchase Order, send a deposit check with shipping documents "Next Day", and pick up your agent as early as the day after. All paperwork is computerized and completed by H3R.

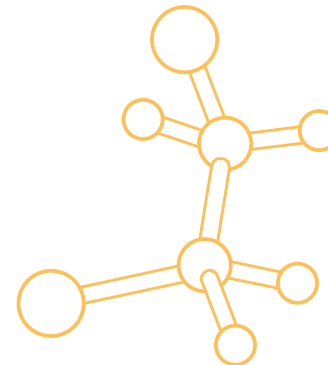
H3R schedules the truck and picks up the agent with or without a lift gate with a 3 hour notice. All agents are shipped in accordance with all applicable federal and state environmental and transportation laws and regulations.

H3R faxes you confirmation that the agent has arrived. We weigh your agent and pay you based on the gross weight - no deduction for nitrogen or loss of Halon during the transfer process.

H3R pays you the balance owed on time or early. About 20% of companies selling agent to H3R receive more money than expected due to an understatement of weight.

Certificate of Reclamation provided upon request.

"Halon is an extremely effective fire suppressant, that is clean and remarkably safe for human exposure."



### Halon FAQ's

#### What is Halon?

Halon is a liquefied, compressed gas that stops the spread of fire by chemically disrupting combustion. Halon 1211 (a liquid streaming agent) and Halon 1301 (a gaseous flooding agent) leave no residue and are remarkably safe for human exposure. Halon is most effective for flammable liquids and electrical fires (rated B:C) and is electrically non-conductive.

#### Is Halon legal?

While the production of Halon ceased on January 1, 1994 under the Clean Air Act, it is still legal to purchase and use recycled Halon and Halon fire extinguishers. In fact, the FAA requires all commercial aircraft to exclusively use halon.

#### Is Halon an environmental concern?

Because Halon is a CFC, the production of new Halon ceased in 1994. There is no cost effective means of safely and effectively disposing of the Halon that has already been produced, therefore recycling and reusing the existing supply intelligently and responsibly to protect lives and property is the best solution.

#### Who Uses Halon?

From protecting computer and communication rooms throughout the electronics industry, to numerous military applications on ships, aircraft and tanks, to ensuring safety on all commercial aircraft, Halon is an integral and unparalleled fire-extinguishing agent. Halon 1211 fire extinguishers play a vital role in protecting peoples' lives as well as property including homes, autos, boats, and RV's.

#### Halon 1211 vs. Halon 1301.

Halon, which has been in use for several decades, is most commonly found in two forms: 1211, a liquid streaming agent found in hand-held extinguishers which gasifies under normal atmospheric conditions, and 1301, a gaseous flooding agent which is found in built-in flood systems.

#### What are the maintenance requirements of Halon Fire Extinguishers?

Halon 1211 fire extinguishers actually require less year-to-year maintenance than the more common dry-chemical fire extinguishers. Dry chemical fire extinguishers tend to settle and "brick up" over time due to moisture and gravity, and this in turn sets up a dangerous situation whereby much of the powder-extinguishing agent is unable to be propelled from the cylinder. Halon 1211, because of its liquid form, is free of such issues. Every year, the Halon extinguisher should be inspected: the pressure gauge should be visually checked to verify adequate pressure, the nozzle should be visually checked to be sure there are no obstructions, and the cylinder should be weighed to meet the manufacturer's weight requirement. Halon 1211 requires a six year maintenance and a 12 year hydrostatic test by a licensed fire service professional.

The 1211/1301 blend does not require a six year maintenance, hydrostatic testing, or recharging. The units should be visually inspected to ensure the extinguisher is fully charged and operable. Fullness is determined by weighing or "hefting" the unit. See name plate instructions for further details.

## RECEIVE TOP DOLLAR FOR HALON OR FM 200

### Customer's Comments

"With H3R's assistance, we have successfully inventoried and shipped over 650 Halon Fire Extinguishers from locations throughout the state of Alaska to H3R. H3R provided all the documentation we needed, arranged shipping and was extremely responsive to our special requirements. We highly recommend H3R for Halon recycling services."

-- **Federal Aviation Administration of Alaskan Region**



Our full service recycling facilities are strategically located in service centers throughout the United States.



### Contact Information

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