FEATURES

- Simple operation and maintenance
- Rechargeable
- Manufactured of durable high quality materials
- Operating temperature range is -20 °C to 55 °C
- Large, easy-to-read pressure gauge
- Five year limited warranty from date of delivery to original end-user purchaser
- Sold and serviced through a network of Independent distributors in every state throughout India.

APPLICATIONS

Clean Agent extinguishers are designed for protection of light and ordinary hazards. These compact and portable extinguishers are suited for both industrial needs. Typical applications include:

OFFICES	ESSENTIAL SERVICES	RECREATIONAL FACILITIES
Banks	Hospitals	Gyms
B P Os	Pathological Laps	Multiplexes
Schools	Nursing Homes	Hotels
Telecom Cos	A T Ms	Restaurants
R&D Centers	Airports	Art galleries
Software Cos	Blood Banks	High-end Beauty Parlor/ Saloons/ Spa
Air conditioned Enclosures	Police Headquarters	Theaters
High-end Automobile Workshops	Cell towers	Indoor Stadiums
Set Ups with CNC/ Servers/ labs/ Offsets/ ICUs/ Operation Theatres etc.	Broadcasting Stations	Clubs
	Defense Headquarters	Banquets
	Aircrafts	
	Train Engines	
	ATC	

DESCRIPTION

1. Clean Agent shells are produced by a single-step cold deep draw process which yields a seamless steel cylinder with an extremely 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. The collar and specially performed bottom enclosure are MIG welded to produce a smooth, high integrity weld.
3. Extinguisher shells are 100% factory air tested in excess of 35 bar.
4. Prior to painting, a custom designed a hot blaster is used to obtain a “white metal” finish on the exterior of the shell. The blasting process removes surface contaminants and provides a textured surface which promotes paint adhesion. The specially formulated two-coat powder paint system is electrostatically applied and cured in infrared ovens. First, an epoxy primer is applied for maximum corrosion resistance and adhesion. Then, to resist fading, cracking, and chipping; a polyester urethane top coat is applied.
5. Easy grip extinguisher handles designed for maximum portability, allow operators to fight the fire without removing work gloves.
6. Clean Agent extinguisher value bodies are made from a durable extruded aluminum alloy which has been black anodized for additional corrosion resistance.
7. Completed valve assemblies feature plated steel valve stems which contain O-ring and seat material compatible with the HFC-236fa agent to provide reliable performance and long life.
8. Rugged all-steel pick-up tubes help provide and dependable agent flow through the valve body.
9. Clean Agent extinguishers have large, color-coded pressure guages which provide a quick visual indication of unit readiness.
10. Metal ring pins with metal retention chains are utilized and held in place by a visual inspection seal to help prevent accidental discharges.
11. One-piece bilingual 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 and model information.
12. Valve subassemblies are 100% tested for functionality before final assembly.
13. Clean Agent extinguishers are filled at the factory to precise tolerances.
14. Pressurized and 100% leak tested utilizing mass spectrometry technology.
15. Clean Agent extinguishers are shipped from the factory in individual recyclable corrugated cardboard cartons. Designed and field tested to help assure your extinguishers arrive undamaged and ready for operation.

EVEREX®

FIRE EXTINGUISHERS

CLEAN AGENT

FIRE EXTINGUISHERS
STORED PRESSURED TYPE

EVEREX
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ISO 9001 ISO 14001 ISO 18001

INTRODUCTION

Clean Agent fire extinguishers are characterized by a unique combination of chemical and physical properties which allow them to extinguish fires without creating a need for cleanup or business interruption. This contrasts to traditional fire extinguishing agents such as water, foam, and dry powder where cleanup and business disruption are inevitable. In addition, the use of extinguishing agents such as water, foam or dry powder oftentimes results in more secondary damage due to the extinguishing agent than due to the fire; for example, the use of water, foam or dry powder to combat fires in museums, libraries, or facilities containing expensive, sensitive electronic equipment.

Clean Agent can reach extinguishing levels in 10 seconds or less, stopping ordinary combustible, electrical, and flammable liquid fires before they cause significant damage. When fire is extinguished that quickly, it means less damage, lower repair costs, and an extra margin of safety for employees and valuable assets

They remove enough heat from the fire that the fire can no longer sustain itself and is subsequently extinguished. HFC clean agents are clean, electrically non-conductive, and characterized by low chemical reactivity as well as low toxicity. The HFC clean agents can be stored as liquefied compressed gases allowing HFC systems to require fewer cylinders and less storage space compared to the inert gas agents. HFCs are also characterized by a zero ozone depleting potential (ODP) and minimal impact on climate change.

Applications of the clean agents include the classic Halon 1301 applications; telecommunication facilities, computer rooms, data centers, museums, libraries, hospitals, medical facilities, medical equipment, clean rooms, engine compartments, engine nacelles, petrochemical facilities, grain elevators, oil rig platforms, floating roof tanks, and aircraft. In addition to the advantage of the use of clean agents is there is no need for business interruption following their use. This allows for business continuity, I.e., no interruption of the services of a business.

CONCLUSION

Clean Agents are ideally suited for the protection of sensitive, expensive, and mission-critical assets. They are employed to protect billions of rupees. The HFC clean agents, combination of replacement for the Halons: high effectiveness, cleanliness, low chemical reactivity, low toxicity, minimal environmental impact, and competitive system cost. With the expected future reliance of business and homes on expensive, sensitive, and mission-critical equipment such as computer's and electronic equipment, the need for clean agent fire extinguisher is also expected to experience vigorous growth.

What is a "Clean Agent"?

Clean Agent.
High Performance. Low Impact. Safe For The Planet. Safe For You.

The term "Clean Agent" is defined as an Electrically nonconductive, volatile, or gaseous fire extinguishant that does not leave a residue upon evaporation.

Using water to extinguish a fire is not always the ideal choice...
When you are trying to protect critical assets such as IT systems, data storage rooms and manufacturings equipments, or irreplaceable items like customer/client records. intellectual property, art, antiques and artfacts - using water will just compound the damage. Using a Clean Agent fire extinguisher in this case is the best solution.

There are 3 ways clean agent can extinguish a fire:

- Reduction of heat
- Reduction or isolation of oxygen
- Inhibiting the chain reaction of the above components

Clean Agent Benefits

Agent
HFC-236fa is a colorless, odorless, electrically non-conductive "clean" agent which discharges as a liquid and flashes to a gas, providing an increased effective firefighting range. HFC-236fa will not cause thermal shock damage to delicate electronic equipment.

Fast
Clean Agent reaches extinguishing levels in 10 seconds or less!

Effective
Clean Agent are designed to control and extinguish a fire in its incipient stage - before it has a chance to spread. Clean Agent are electrically non- conductive and non-corrosive, and there will be no damage to electronics and delicate mechanical devices.

Safe
Clean Agent are designed to provides a wide margin of human safety - they are safe to use where people are present.

Clean
Clean Agent rapidly vaporizes to gas during discharge and evaporates cleanly, leaving no residue behind, which means no costly cleanup.

Earth Friendly
Clean Agent are non ozone depleting and have a short atmospheric lifetime.

HFC-236fa Clean Agent

Exceptionally effective fire extinguishant. The extinguishing concentration (cup burner) of HFC-236fa is only 5.95% and because it discharges as a liquid, it also provides an effective discharge range of approx 10 ft (3.0 m).

Safe for sensitive electronic components. HFC-236fa is electrically nonconductive, residue-free, and will not cause thermal shock damage.

HFC-236fa has been accepted for commercial, industrial use, it boasts ZERO Ozone Depletion Potential (ODP) / Zero Global Warming Potential (GWP) and is NOT scheduled for phase-out by the Montreal Protocol.

Very low toxicity. The Lowest Observable Adverse Effects Level (LOAEL) of HFC-236fa is 15%, well above its extinguishing concentration. Other agents have LOAEL's of only 1% or 2%

OVERALL COMPARISION OF HALON REPLACEMENTS

Ideal Halon Replacement	Halon1301	HFCs	HCFCs	Inert Gases
Zero ODP	✗	✓	✗	✓
High Weight Efficiency	✓	✓	✓	✗
Cleanliness	✓	✓	✓	✓
Low Chemical Reactivity	✓	✓	✓	✓
Electrically Non-Conductive	✓	✓	✓	✓
Low Toxicity	✗	✓	✗	✓
Low Metabolism	✓	✓	✓	✓
Low Agent Cost	✓	✓	✓	✓
Low System Cost	✓	✓	✓	✗
Ease of Gasification	✓	✓	✓	✓
Low Storage Volume	✓	✓	✓	✗
Low No. Cylinders	✓	✓	✓	✗
Low Storage Footprint	✓	✓	✓	✗
Low Cylinder Pressure Rating	✓	✓	✓	✗
Low manifold Pressure Rating	✓	✓	✓	✗
Slow Startification	✓	✓	✓	✓
Low Enclosure Pressure	✓	✓	✓	✗
Zero GWP	✗	✓	✗	✓