



Automatic Fire Suppression Systems

Product Overview



Smarter Solutions with Cutting-Edge Technology

T SERIES

TUBE SYSTEM

The T Series system by BlazeCut is a unique tube-based fire suppression solution, designed to protect small enclosures. It is completely maintenance-free and operates automatically, with no need for an external power source. The tube is made of specialized heat-sensitive plastic, filled with a clean extinguishing agent and closed by stainless steel fittings on each end.

The tube functions as storage for the extinguishing agent, as a fire detection mechanism, and as a distribution mechanism for the extinguishing agent. No additional cylinder is necessary. When a fire occurs, the combination of heat and internal pressure causes the tube to rupture and create a nozzle, releasing the fire extinguishing agent from the tube, and stopping the fire within seconds.



1. System Installed



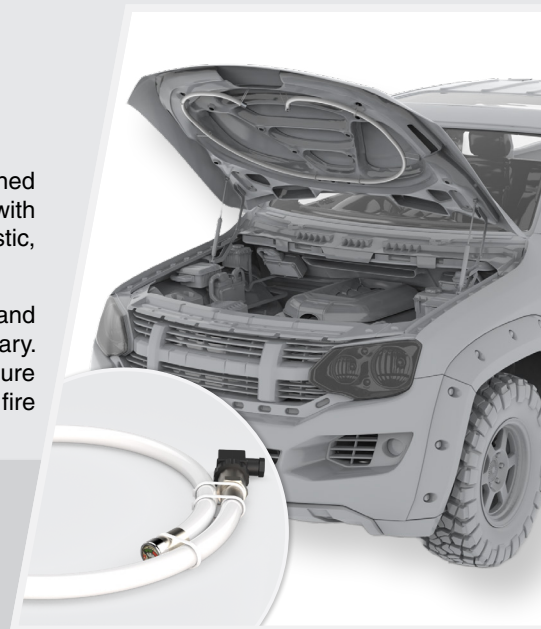
2. Fire Detection



3. Extinguishing



4. Fire Extinguished

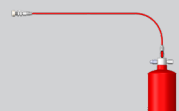


C SERIES DLP

DIRECT LOW PRESSURE SYSTEM

The C Series DLP system is a simple cylinder-based fire suppression solution, designed to protect small and medium-size enclosures. The cylinder is filled with a fire extinguishing agent and connected to a plastic detection tube. The detection tube, which also serves as a distribution network, is placed inside the hazardous enclosure. Once the heat reaches actuation temperature, the detection tube ruptures, creating a hole and releasing system pressure. The loss of pressure results in the release of the fire extinguishing agent from the cylinder through the distribution network straight onto the source of the fire.

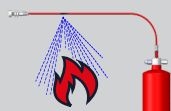
Like the T Series, C Series DLP can operate automatically, with no need for a power source. However, C Series DLP can protect a larger area since the tubing can satisfy more complex placement options and connect up to 40 m of tubing in one system. This system also offers single or twin cylinder valves.



1. System Installed



2. Fire Detection



3. Extinguishing



4. Fire Extinguished



T SERIES & C SERIES DLP

OPTIONAL COMPONENTS

The T Series and C Series DLP systems can be fitted with a pressure switch. This allows for the installation of additional components into the system. The pressure switch sends a signal to the compact audio-visual BlazeCut alarm monitoring panel and/or to a wide range of audio-visual signalling devices for indoor and outdoor applications. Additionally, the pressure switch can perform other safety operations, such as disconnecting the power supply or shutting down the engine of the machine it connects to. A wide range of options is available to suit the needs of each application.

TYPICAL APPLICATIONS

- ▶ On-road vehicles and off-road vehicles
- ▶ Mobile machinery
- ▶ Agricultural equipment
- ▶ Electric switchboards, fuse boxes, MCC cabinets
- ▶ 3D printers, laser cutters, audio-visual equipment
- ▶ IT servers, telecom cabinets, vending machines, electric fuel bowzers, and many more

SYSTEM FEATURES

- ▶ Uninterrupted fire protection
- ▶ Independent of power supply
- ▶ Ready-to-install kits
- ▶ Simple installation
- ▶ Low or no maintenance
- ▶ Cost-effective
- ▶ 3-year warranty

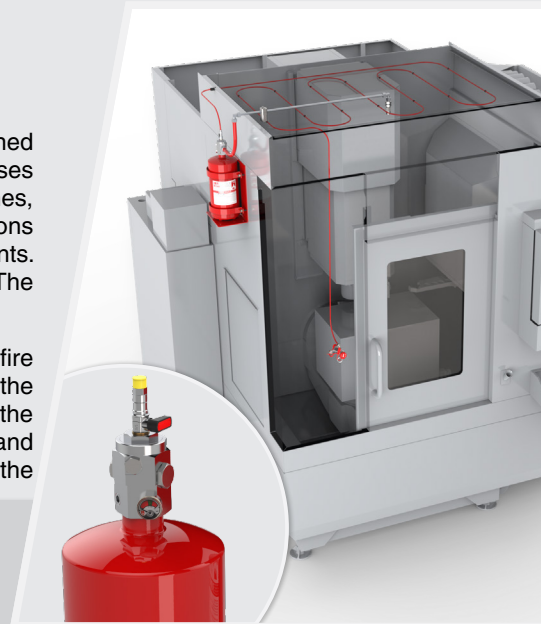
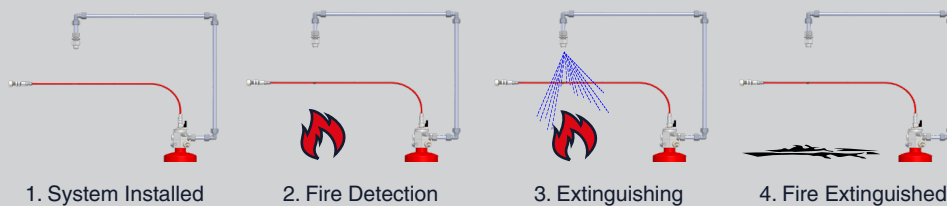


C SERIES ILP BLAZE TUBE (LOP)

INDIRECT LOW PRESSURE SYSTEM – LOSS OF PRESSURE

The C Series ILP BlazeTube systems are cylinder-based fire suppression solutions, designed for medium and large, fixed and mobile installations. Application examples include buses and coaches, various industrial and rail vehicles, (mobile) heavy machinery, CNC machines, commercial kitchens, and many others. ILP systems are highly customizable. They offer options of manual or automatic actuation, a choice of extinguishing agents and optional components. Their fire detection network and suppression agent distribution network are separated. The distribution network consists of hoses, pipes, fittings, and nozzles.

The C Series ILP LOP BlazeTube system is characterized by a pneumatic method of fire detection using a loss-of-pressure detection tube. The BlazeTube detection and the distribution network are placed inside the hazardous enclosure. When a fire occurs, the detection tube ruptures, releasing pressure from the cylinder, opening the cylinder valve, and releasing the extinguishing agent onto the fire and the whole protected area through the

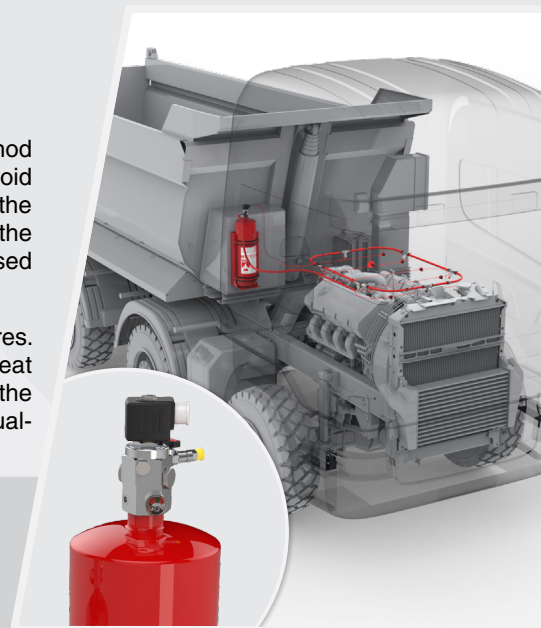
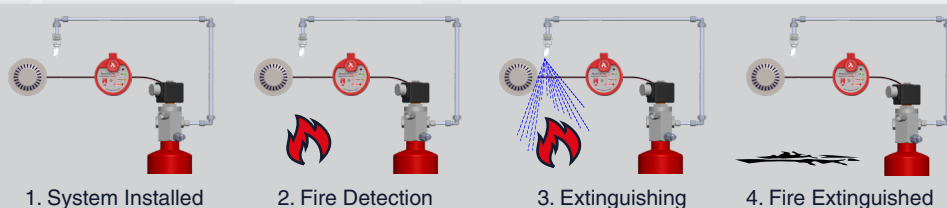


C SERIES ILP BLAZE WIRE (LHD)

INDIRECT LOW PRESSURE SYSTEM – LINEAR HEAT DETECTION

The C Series ILP BlazeWire fire suppression solution is characterized by an electronic method of actuation. It detects heat, using a linear heat detector connected to an electric solenoid cylinder valve. The linear heat detector and the distribution network are both placed in the hazardous enclosure. When a fire occurs, the electrical circuit shorts, sending a signal to the solenoid and opening the cylinder valve. The extinguishing agent is subsequently released from the cylinder onto the protected area through the distribution network.

C Series ILP Electronic systems can be customized for use in different operating temperatures. It can employ several different types of electronic detection methods including BlazeWire, heat probe, heat detector, smoke detector, and heat/smoke detectors. Additionally, actuating the system can be automatic, manual, or both. It is possible to delay the discharge or manual-discharge only. Numerous add-on devices are available for this system.



C SERIES ILP LOP & ILP LHD

OPTIONAL COMPONENTS

- ▶ Pressure switch
- ▶ Pressure transducer
- ▶ Alarm monitoring panel
- ▶ Manual pneumatic actuators
- ▶ Manual electric actuators
- ▶ Smoke detector
- ▶ Heat detector
- ▶ Heat probe
- ▶ Audio signalling devices
- ▶ Visual signalling devices
- ▶ Audio-visual signalling devices

TYPICAL APPLICATIONS

- ▶ Buses and coaches
- ▶ Network racks
- ▶ Electrical cabinets
- ▶ Telecom cabinets
- ▶ Wind turbines
- ▶ Solar panel systems
- ▶ CNC machines
- ▶ Dust collectors
- ▶ Chemical storage
- ▶ Fume cabinets
- ▶ Commercial kitchens
- ▶ Power generators

SYSTEM FEATURES

- ▶ Highly customizable
- ▶ Mechanical and/or electronic systems
- ▶ Use of powder, foam or clean agents
- ▶ Automatic and/or manual actuation
- ▶ Choice of detection options (LOP/LHD)
- ▶ Various actuation temperatures
- ▶ Optional delay of discharge (LHD)
- ▶ Shutting off separate equipment possible
- ▶ Delayed shutdown possible (LOP/LHD)
- ▶ No electricity required (LOP)
- ▶ Fast detection and extinguishing
- ▶ Cost-effective maintenance
- ▶ 3-year warranty

AVAILABLE EXTINGUISHING AGENTS

CLEAN (HFC-227ea, FK-5-1-12)

Used with systems:

T Series

C Series DLP BlazeTube

C Series ILP BlazeTube/BlazeWire

- ▶ A, B, C, and electrical fires
- ▶ Electrically non-conductive
- ▶ Non-corrosive
- ▶ Resistant to high-temperature and low-temperature changes
- ▶ Siphons heat
- ▶ Leaves no residue
- ▶ No clean-up necessary
- ▶ No damage to the equipment
- ▶ Environmentally friendly
- ▶ Zero ozone-depleting potential
- ▶ Global warming potential <1 (FK-5-1-12)

POWDER

Used with systems:

C Series DLP BlazeTube

C Series ILP BlazeTube/BlazeWire

- ▶ A, B, C, and electrical fires
- ▶ Universal application
- ▶ Non-poisonous inorganic salts
- ▶ Functions by coating the fuel surface and separating it from oxygen
- ▶ Cost-effective
- ▶ Electrically non-conductive
- ▶ Non-corrosive in dry conditions
- ▶ Resistant to temperature changes

FOAM

Used with systems:

C Series ILP BlazeTube/BlazeWire

- ▶ A, B and F fires
- ▶ Used for semi-open and fully open areas
- ▶ A wet agent that combines water and foaming substances
- ▶ Functions by coating the fuel surface and separating the fuel surface from oxygen
- ▶ Strong cooling effect
- ▶ Environmentally friendly
- ▶ Biodegradable
- ▶ Prevents reignition



AQAP
2110:2009



**Clean Agents
are UL Recognised
and FM Approved**



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DEALERS/DISTRIBUTORS: BlazeCut has a global network of dealers and distributors.
To find your nearest dealer, or to become one, please contact BlazeCut.

