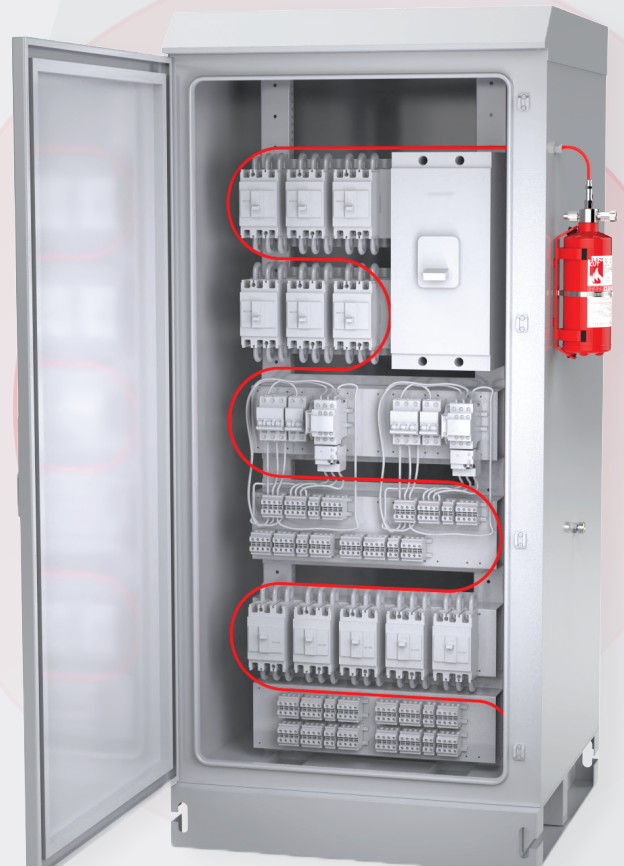




# Automatic Fire Suppression Systems

## C Series DLP

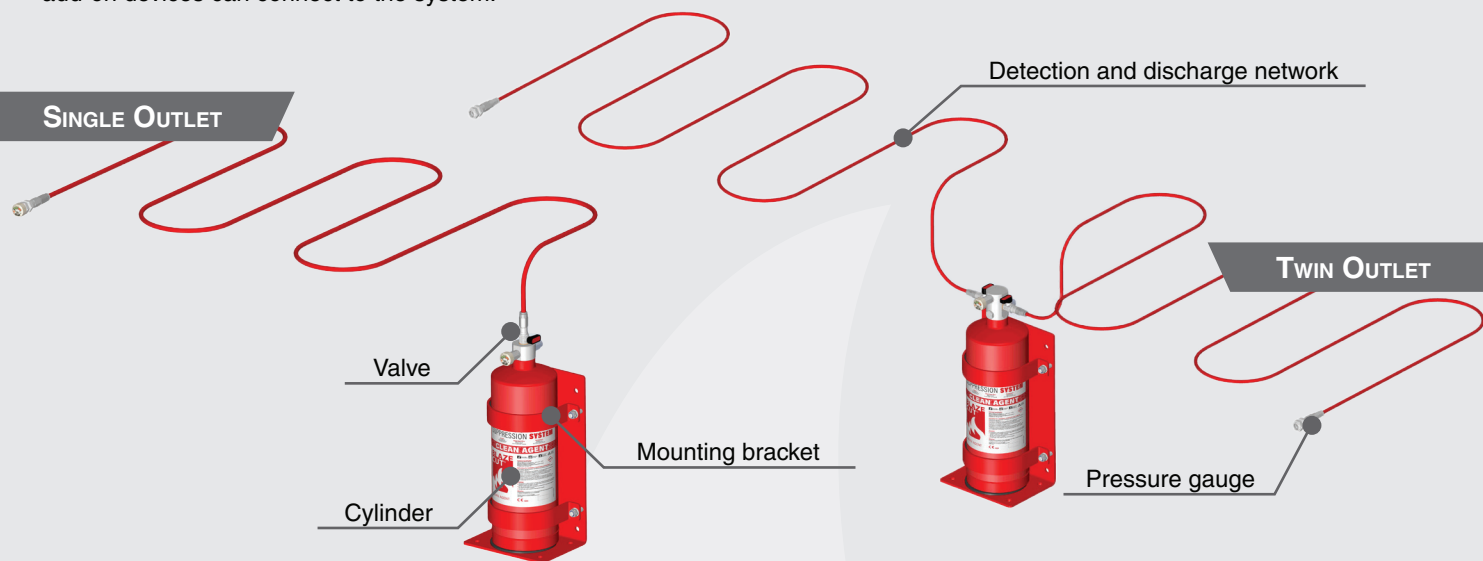
FOR SMALL AND  
MEDIUM-SIZE  
APPLICATIONS



Smarter Solutions with Cutting-Edge Technology

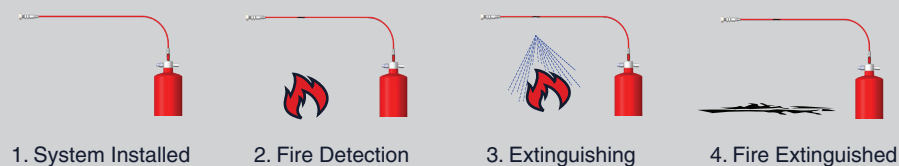
# BLAZE CUT TECHNOLOGY

The **C Series Direct Low Pressure (DLP) system** by BlazeCut is designed for small and medium-size enclosed spaces that pose a fire threat. It is a simple, cylinder-based system that operates automatically without requiring any external power source. Multiple add-on devices can connect to the system.



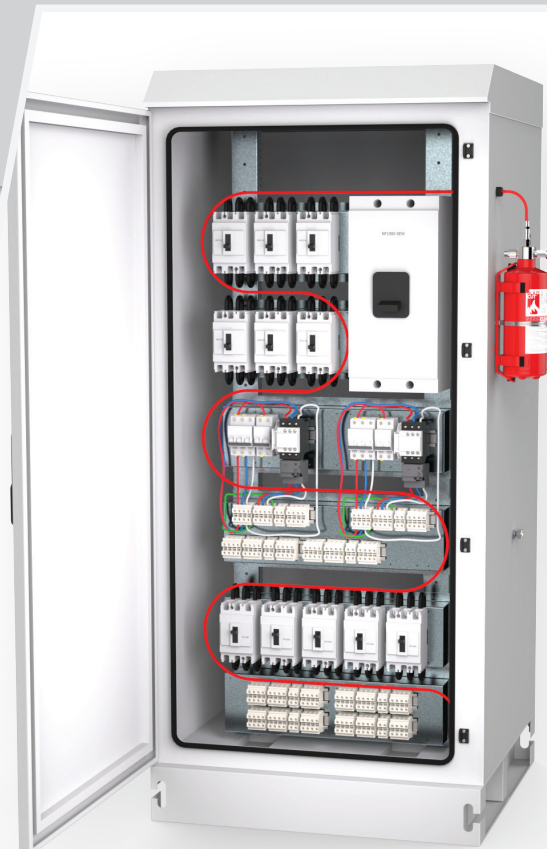
## SYSTEM OPERATION

The cylinder is filled with an extinguishing agent and connected to a plastic BlazeTube pneumatic heat detection. The BlazeTube is placed inside the hazardous enclosure and the cylinder is installed outside of it. Once the heat reaches actuation temperature, the BlazeTube ruptures, creating a hole and decreasing system pressure. The loss of pressure results in the release of the extinguishing agent through the hole.



## SYSTEM FEATURES

- ▶ Fully automatic and autonomous
- ▶ Independent of power supply
- ▶ Fast detection (up to 40 m of detection tubing)
- ▶ High efficiency of extinguishing agent
- ▶ One system can cover multiple spaces
- ▶ Harmless to humans and protected devices
- ▶ Variety of additional components
- ▶ Simple installation and maintenance
- ▶ Cost-effective life value
- ▶ Ready-to-install kit
- ▶ 3-year warranty



## OPTIONAL COMPONENTS

The **BlazeCut C Series DLP system** allows the connection of an optional pressure switch. The pressure switch monitors the pressure inside the cylinder and BlazeTube detection. When the tube ruptures and the extinguishing agent is discharged, the pressure switch activates additional devices connected to the system, such as the BlazeCut Alarm Panel or various other types of signalling devices. Additionally, the pressure switch can be configured to perform other safety operations, such as disconnecting the power or shutting down the engine of the machine it is connected to.

### PRESSURE SWITCH AND TRANSDUCER

The pressure switch and transducer are used for monitoring the system pressure. The pressure switch is a mechanical switch with NO/NC contact for initiating the shutdown operation, activating the signalling unit, or sending a signal to the BlazeCut Alarm Panel. The pressure transducer secures constant electronic pressure monitoring for low/high pressure, and sends a signal to the BlazeCut Alarm Panel.

### ALARM PANELS

The BlazeCut Alarm Panels AAP210, AAP310 and AAP400 are simple and effective optional devices for monitoring system status and component functionality, with audible and visual fire signalling.

### OTHER OPTIONAL COMPONENTS

- ▶ Audio signalling devices
- ▶ Visual signalling devices
- ▶ Audio-visual signalling devices



## SPECIFICATION

The DLP valve has the tube connected directly to the cylinders contents which allows a rapid release of extinguishing agent directly onto the fire. The tube is available in 6 mm and 8 mm diameter and can be easily routed around the risk area. Each tube can be made to length on site which allows for optimal system design.

Coupled with a pressure switch, the DLP system can provide an output for an alarm to signal a fire event. Cylinders with HFC-227ea arrive pressurised as standard, while cylinders with FK-5-1-12 and powder are unpressurised but can be delivered pressurised at customer's request and ready for easy installation.

| Type of agent               | Amount of agent        | Cylinder volume   | BlazeTube detection size | Operating temperature | Valve          | Fire class (EU)              |
|-----------------------------|------------------------|-------------------|--------------------------|-----------------------|----------------|------------------------------|
| ABC Powder                  | from 1 kg to 4 kg      | from 1.2 L to 5 L | Ø 8 mm                   | -30°C to +60°C        | 1 outlet       | A, B, C and electrical fires |
| HFC-227ea                   | from 1 kg to 4 kg      | from 1.2 L to 5 L | Ø 6 mm or 8 mm           | -20°C to +55°C        | 1 or 2 outlets |                              |
| FK-5-1-12                   | from 1.25 kg to 5 kg   | from 1.2 L to 5 L | Ø 6 mm or 8 mm           | -20°C to +60°C        | 1 or 2 outlets |                              |
| FK-5-1-12<br>LPCB certified | from 0.9 kg to 3.75 kg | from 1.2 L to 5 L | Ø 6 mm or 8 mm           | -20°C to +60°C        | 1 or 2 outlets |                              |

## TYPICAL APPLICATIONS

- ▶ **Electric switchboards**, fuse boxes, battery compartments, MCC cabinets, and electric charging stations
- ▶ **IT servers**, telecom cabinets, vending machines, and electric fuel bowers
- ▶ **Engine compartments of on-road vehicles**, e.g. cars, vans, SUVs, etc.
- ▶ **Engine compartments of other vehicles**, e.g. quads, ride-on mowers, golf carts, and agricultural equipment
- ▶ **Engine compartments of mobile machinery**, e.g. forklifts, excavators, skid steers, loaders, cranes, small generators, and lighting towers
- ▶ **Other applications**, 3D printers, laser cutters, audio and/or visual equipment, and many more

## EXTINGUISHING AGENTS

The **BlazeCut C Series DLP system** can employ a powder agent, or clean gas agents HFC-227ea or FK-5-1-12. All agents used at BlazeCut are internationally recognized as top-of-the-line extinguishing agents on the market. The choice of an extinguishing agent depends on the type of fire hazard being covered. Powder and clean gas agents have different characteristics. Each C Series DLP installation is evaluated to determine the optimal choice of agent. The following are the main advantages of using powder or clean gas agents:

### **GAS** (HFC-227ea, FK-5-1-12)

- ▶ 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**

- ▶ 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
- ▶ High quality powder 90% MAP



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