

Automatic **fire** suppression **system**



T Series



The system operation

The BlazeCut system is designed for protection of small enclosures with greater risk of fire. BlazeCut operates automatically without any power supply by detecting higher temperatures. When the temperature in the protected enclosure rises to a critical threshold, the heat sensitive BlazeCut Tube melts down at the point where the affecting temperature is the highest. Melting the BlazeCut Tube creates a hole releasing the entire extinguishing agent stored in the BlazeCut Tube directly onto the source of the fire.



1. System Installed



2. Fire Breakout



3. Fire Detection



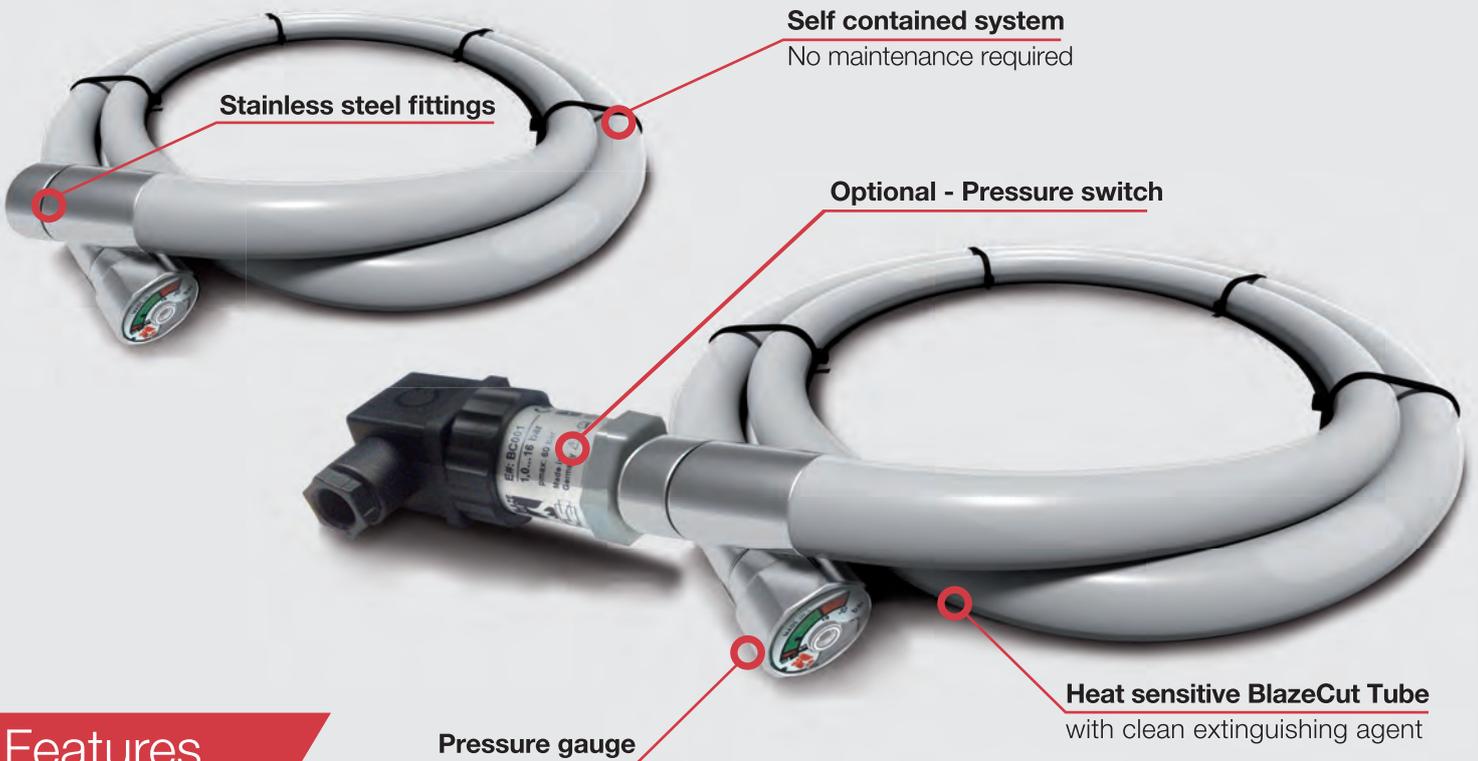
4. Extinguishing



5. Fire Quenched

Technology

The system consists of a heat sensitive BlazeCut Tube made of special plastic which is closed by a stainless steel fittings on each end. The BlazeCut Tube has both storage and detection function which means that the extinguishing agent is stored directly in the BlazeCut Tube and no additional storage device such as cylinder is needed.



Features

-  **Universal use:** high flexibility of BlazeCut Tube and A, B, C and electrical fires class rating can protect almost any space
-  **High cost-effectivity:** zero maintenance, long working life, automatic activation beats the competition in cost-effectivity
-  **No cylinder for storage** of extinguishing agent needed: the whole system can be placed inside the protected enclosure
-  **Options to connect a pressure switch** and other additional components like signaling unit to perform further functions
-  **Clean and effective extinguishing agent:** world-wide known and accepted HFC gases (HFC-227ea and HFC-236fa)
-  **No pressurization needed:** the system works by increasing pressure of the extinguishing agent when heated
-  **Automatic operation** based on increased temperature: ideal for non-occupied spaces or spaces out of sight
-  **Fully independent:** system is operational 24/7 without any power supply
-  **No maintenance** during entire working life = zero maintenance costs
-  **Long working life:** 5 – 10 years depending on the type of application
-  **No harm to protected enclosure** and people when discharged
-  **Very simple installation:** no training required for installation
-  **Pressure gauge** to monitor the pressure at any time
-  **Low operation temperatures:** up to -40°C
-  **Activation temperature:** about 120°C



Type of system and specification

Type of system	Extinguishing Agent	Amount of extinguishing agent (kg)	Length of the system (cm)	Outside diameter of the tube (mm)	Max. volume of the protected enclosure (m ³)	Operation Temperature (°C)
TD100EA	HFC-227ea	0.25	110	18	0.20-0.30	-40°C to +60°C
TV100FA	HFC-236fa				0.22-0.35	-40°C to +80°C
TD200EA	HFC-227ea	0.50	212		0.40-0.60	-40°C to +60°C
TV200FA	HFC-236fa				0.43-0.70	-40°C to +80°C
TD300EA	HFC-227ea	0.75	316		0.60-0.87	-40°C to +60°C
TV300FA	HFC-236fa				0,65-1.04	-40°C to +80°C
TD400EA	HFC-227ea	1.00	419		0.78-1.16	-40°C to +60°C
TV400FA	HFC-236fa				0.86-1.40	-40°C to +80°C

HFC-227ea for use in electrical applications
HFC-236fa for use in engine compartments

Application Guide:

Recommended minimum sizes:

- VW Beetle TV200FA
- VW Kombi TV300FA
- VW Transporter TV300FA
- VW Karmann Ghia TV300FA



Optional Components

Unique construction of the T Series system allows you to connect to the optional pressure switch which monitors the pressure inside the BlazeCut Tube. Once the system is discharged the pressure switch sends a signal to a signaling unit or to an external device to perform other safety operations (e.g. disconnect the power or shut down the engine).



Pressure Switch



Alarm Panels



Signaling Unit

The optional pressure switch monitors the pressure and sends a signal in case the pressure drops under pre-set value or the system discharges in the event of a fire.

Audio-optical dash mounted alarm panels for applications in vehicles, machines or boats. Includes a "ready" control light and fire alarm buzzer.

Simple and cost-effective audio-optical signaling device for indoor applications.

Typical Applications

- Engine compartments of vehicles, machines, pleasure boats, earthmoving equipment
- Electrical, IT servers and battery cabinets
- Vending machines, POS machines, ATMs
- Electrical charging stations
- Enclosures with audio-video devices
- Small generators, lighting towers
- Farming & agricultural machinery



Extinguishing Agent

BlazeCut T Series system uses HFC-227ea and HFC-236fa extinguishing agents. Both extinguishing agents are world-wide known and accepted clean agents used for volume fire suppression with very high effectivity, zero ozone depletion potential and safe to people. It is the agent of choice for protection of enclosures where any residue would cause harm to the protected sensitive devices.

HFC-227ea clean agent is UL Recognised and FM Approved and is an environmentally preferred substitute for Halon 1301.

HFC-236fa clean agent is UL Recognised and an environmentally preferred substitute for Halon 1211.



Fire Class Rating



A **CLASS A:**
ordinary combustibles
(creating flames)



B **CLASS B:**
flammable liquids



C **CLASS C:**
burning gases



E **LIVE ELECTRICAL**
equipment

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