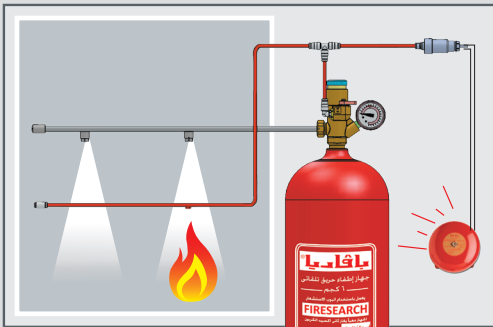


# **BAVARIA**<sup>®</sup> Alarm Carbon Dioxide Automatic Fire Suppression System



**Extinguish Fires Where They Started IN SECONDS**



**Indirect Pressure Operated System**



**Direct Pressure Operated System**

## Applications

The BAVARIA FIRESEARCH is the new innovation technology designed with automatic tube sensor, it can work with dry chemical powder or Carbon Dioxide, specifically for protecting inaccessible areas or enclosures which are difficult to access, such as control panels, power panels computer, servers room, main machinery rooms, generators. And is also suitable for protecting cars, buses, boats, ships and fits for use within commercial buildings, industrial plants, residential and fuel station and others.



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# BAVARIA® Alarm Dry Chemical Powder / Carbon Dioxide Automatic Fire Suppression System

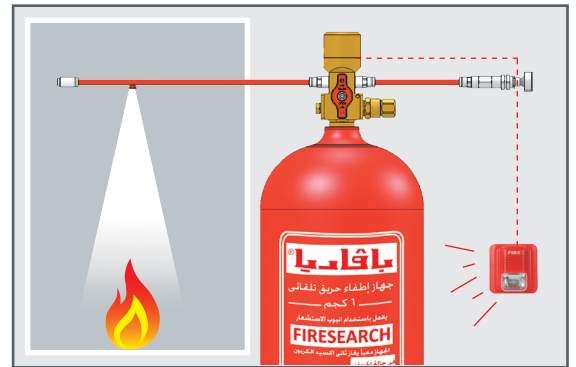


### Theory:

- Specially designed for protecting inaccessible areas or enclosures such as: vehicles, control panels, storage racks and machinery rooms.
- Firesearch sensor tube made of flexible engineering polymer material, considers all points of an infinite number of sensors and nozzles.
- Automatically actuated upon bursting of the tube at any point along its length due to temperature rise upto 100°C
- Equipped with a special pressure regulator valve innovative to work automatically when the pressure leak from the tube through any hole.
- Available in two systems: Direct Pressure Firesearch and Indirect Pressure Firesearch Systems.

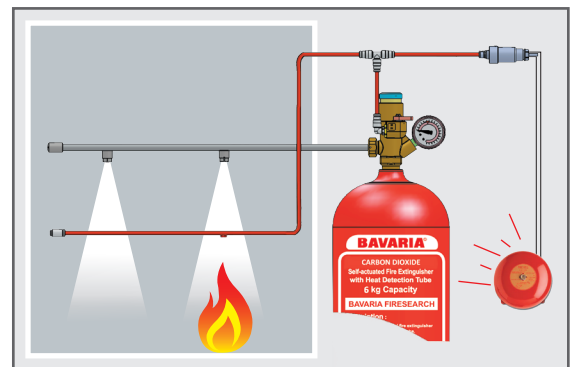
## 1. Direct Pressure Operated System

BAVARIA FIRESEARCH direct pressure operated system uses the firesearch tube as both "Detection Device" a sensor to detect the fire start, and "Extinguishing Agent Delivery System", firesearch tube considers all its points of an infinite number of sensors and nozzles. As the fire starts, the firesearch tube is detected ruptures, forming as an effective nozzle. The pressure will drop releases the cylinder Carbon Dioxide through the effective nozzle to effectively suppress the fire, which allows the fastest extinguishing time and minimum spread of the fire. As an Option the Firesearch system can linked with a sarin alarm operated with battery.



## 2. Indirect Pressure Operated System

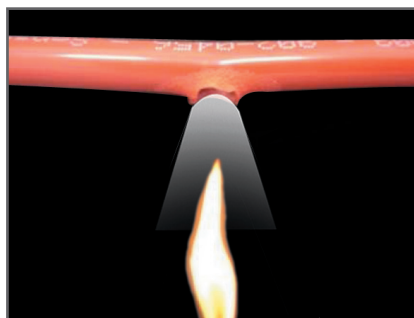
BAVARIA FIRESEARCH indirect pressure operated system uses the firesearch tube as a "Detection Device" a sensor to detect the fire start only, not as the discharge tube, and "System Activation Device". As the fire starts the firesearch tube ruptures making drop of pressure, effect to active the indirect valve, then causing the Carbon Dioxide is discharged from the cylinder through the diffuser nozzles, which allows the fastest extinguishing time and minimum spread of the fire. As an Option the Firesearch system can linked with a siren alarm operated battery.



## Discontinue Fires Where They Started . . . . . IN SECONDS



**5 SECONDS**  
small fire begins



**10 SECONDS**  
tubing ruptures, releasing gas,  
extinguishing fire



**15 SECONDS**  
the fire is out



**Features:**

- Ideal for any application where a potential fire risk is present within an enclosed or confined space by extinguishing fire at its very incipient stage with minimal damage.
- Firesearch automatic fire extinguishing system do not need any external source of energy or electric supply.
- Cost effective as no electrical installation or wiring is required
- Can be interfaced with an alarm device or system via pressure switch
- Extinguish Fires Where They Started .... IN 15 SECONDS
- Detection tube considers all points of an infinite number of sensors and nozzles
- Available in two systems: Direct Pressure Firesearch and Indirect Pressure Firesearch Systems, with dry chemical powder or Carbon Dioxide



**Designed for protecting ....**



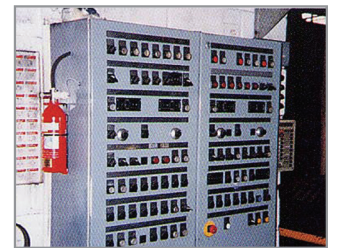
**Engine**



**Escalators**



**Server Rooms**



**Control Panels**



**Boats and ships**



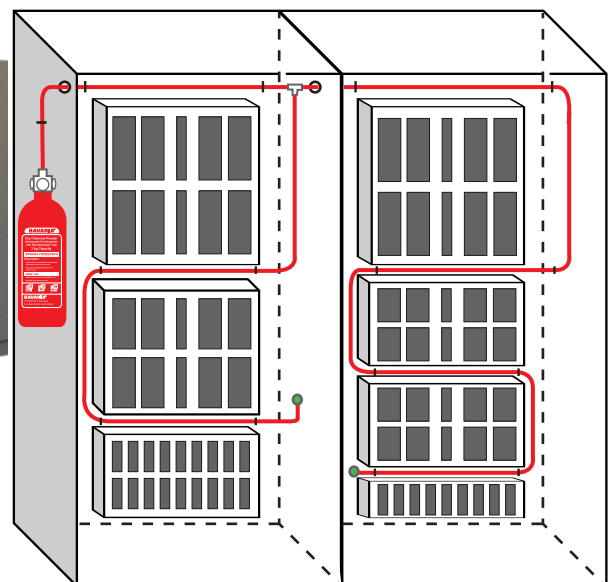
**Buses**



**Flammable liquids**



**Gasoline Station**





## BAVARIA® Alarm Firesearch CO<sub>2</sub> Automatic Fire Suppression System

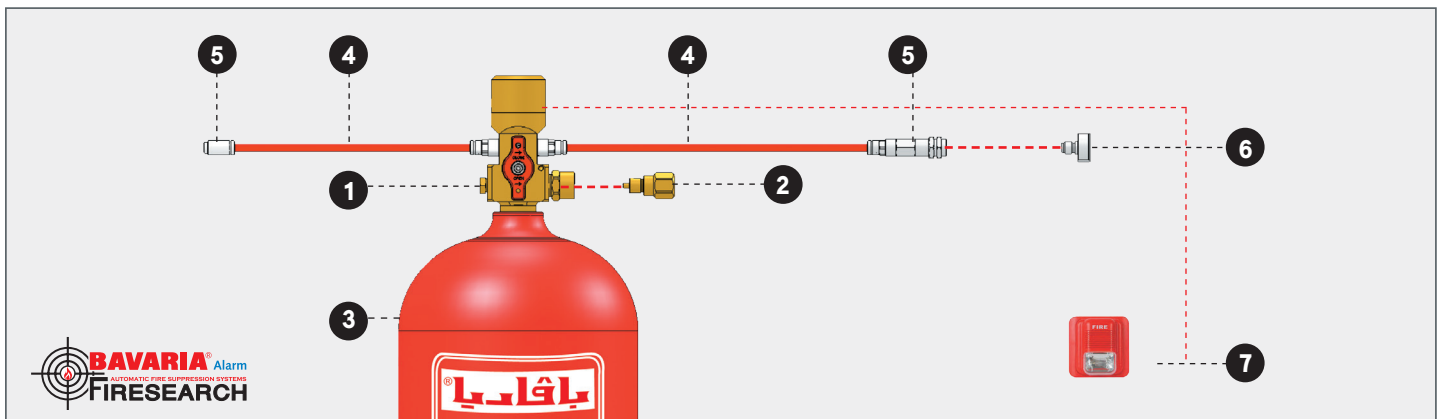


### 1. Direct Pressure Operated System

BAVARIA FIRESEARCH direct pressure operated system uses the firesearch tube as both "Detection Device" a sensor to detect the fire start, and "Extinguishing Agent Delivery System", firesearch tube considers all its points of an infinite number of sensors and nozzles. As the fire starts, the firesearch tube is detected ruptures, forming as an effective nozzle. The pressure will drop releases the cylinder Carbon Dioxide through the effective nozzle to effectively suppress the fire, which allows the fastest extinguishing time and minimum spread of the fire. As an Option the Firesearch system can linked with a sarin alarm operated with battery.



### 1. Direct Pressure Operated System Carbon Dioxide (Fig 3)



#### System's Components:

1. Head valve internally equipped with a pressure sensor and cable to connect sound and light alarm unit to operate in case of system discharging or if pressure drop occurs
2. Filling gas enclosure
3. CO<sub>2</sub> Cylinder
4. Firesearch flexible detection tube
5. End of line
6. Manometer
7. Sound and light alarm unit





## **BAVARIA**<sup>®</sup> Alarm Firesearch CO<sub>2</sub> Automatic Fire Suppression System



### Data Specifications: **BAVARIA FIRESEARCH** Carbon Dioxide

System	DHP (Direct High Pressure system)		
Capacity	2 kg	6 kg	10 kg
Fire Classes	BE		
Cylinder Test Pressure	250 bar		
Cylinder Bursting Pressure	Over 450 bar		
Operating Head	Brass valve with overpressure safety valve		
Discharge Fittings	Firesearch polymer flexible tube with several lengths		
Tube Bursting Temp. at 8 bar	100 °C (± 5 °C)		
Extinguishing Agent	CO <sub>2</sub> gas		
Shell Material	Seamless steel cylinder		
Paint Finish	Surface treatment and 100% polyester coating		

### Warranty:

Period of Warranty	1 Year
Coverage of the Warranty	Against material failure and production defects
Method of Warranty Coverage	Limited to the replacement of the defected part or product after verification that the failure is covered by the scope of the warranty
Warranty Exclusions	Failures due to misuse, mishandling, or inspection or repair by an unauthorized dealer or entity

\* The illustrations may show optional extras only available at extra charge. BAVARIA Alarm retains the right to alter specifications and illustrations given herein without prior notice. Specifications will only be considered communicated at placing of order.



Fire Fighting Solutions

When It Comes To Your Safety Only The Best Is Good Enough

A GLANCE ON

**BAVARIA**® Holding



The roots of Bavaria go back to 1923, when Bavaria Feuerlöscher-Apparatebau was first established in Falkenstein, Germany. The objective of the company was to manufacture quality firefighting equipment and supply safety at a time of great need. Bavaria with its old heritage is the second oldest fire extinguisher manufacturer in Germany.

Many years later, with a vision of globalization that was ahead of its time, Bavaria Egypt stock company was established in 1971 as an Egyptian German joint venture. Bavaria Egypt's main objective has always been to provide innovative, reliable and sustainable high quality fire fighting products to meet the current and future market demands, providing safety to individuals and the society at large.

In 1999, both companies merged together under one holding company; Bavaria Holding and thus expanding turf on both the national and international levels. Features of the benefits reaped are quite numerous including the integration of their market strategies, product packages, the combination of the production facilities in Germany and Egypt as well as the endorsed experiences, research and development activities.

BAVARIA HOLDING has other subsidiaries like Bavaria Free-Zone that is specialized in logistics and free zone operations and Bavaria Alarm, a turnkey provider for automated alarm and fixed fire fighting installations and systems

Today, on the international level, BAVARIA HOLDING extends its market endeavors to many countries. Bavaria is directly present through its own subsidiaries in Lebanon, U.A.E, and Sudan as well as being active in the European Union as well as in several other countries. Under the umbrella of its six companies Bavaria secures the supply of its wide range of products through 26 owned branches in 5 countries. That provide hands on reliable consultations, prompt supply, technical support, and after sale services.



Thanks to its well-developed fleet of customer service vehicles that deliver high quality services on site to 50,000 contracted service customers and is committed to fulfilling their requests within 72 hours. Bavaria is perhaps the largest producer in Africa, the Middle East, and Europe for cars' fire extinguishers with a capacity of up to several million fire extinguishers per annum.

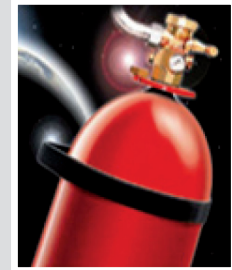




A GLANCE ON **BAVARIA** ALARM



BAVARIA Alarm was Established in 1996, it is a wholly-owned subsidiary of Bavaria Holding. Specialized in automatic fire alarm & fixed installations systems. BAVARIA Alarm is a reliable provider of fire detection and alarm, fire sprinkler, and fire suppression systems & services. We provide solid consultations, technical support & after sales service.

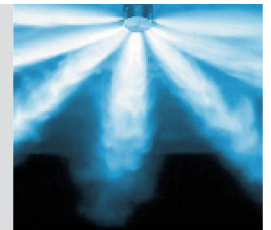


We are specialized in:

- Fire alarm system UL & ULC approved
- Gaseous clean agent extinguishing system UL approved
- High pressure system UL and FM approved
- Fire fighting pumps UL and FM approved
- Self actuated fire Extinguishers
- Automatic fire suppression systems
- Kitchen Guard "restaurant cooking area fire suppression system"
- Filling station UL approved

BAVARIA Alarm's management has always had the target of continuous development, innovations and upgrading of its wide range of products to comply with the highest quality standards and latest technology.

The Company designs a wide range of systems in conjunction with our international partners and suppliers. The quality of our products is being recognized by a number of national and international Certificates and Listings.



International Partners and Suppliers:

- **Fire Alarm System, EN54, UL & ULC approved:** BAVARIA Alarm provides a complete series of fire alarm products for a wide variety of life safety applications including control panels, ancillary devices and signaling peripherals. The product line ranges from conventional systems to intelligent analog and emergency zoned audio systems for larger commercial, industrial and residential markets.
- **Gaseous Clean Agent Extinguishing System, EN54 & UL approved:** Safety Systems with the widest range of replacements for halons like NAF S 125, NAF S 227 are offered for total flooding applications
- **High Pressure System, UL and FM approved:** Sprinkler and foam systems for different types of applications designed according to NFPA regulations.
- **Fire Fighting Pumps, UL and FM approved:** BAVARIA Alarm provides UL & FM high-performance fire suppression pumps and packages for high density commercial, residential and industrial facilities.
- **Kitchen Guard UL approved & NFPA regulations:** BAVARIA Kitchen Guard "Restaurant cooking area fire suppression system".
- **BAVARIA Alarm 25000 WP Foam Fire Suppression System UL approved:**

Is an innovative and proven fire protection solution for enclosed spaces. The system is not only efficient and swift when it comes to combating fires in enclosed spaces, it also considerably reduces the risks of secondary damage as it has a low water content. When activated, the foam will totally flood the protected area in a matter of minutes and submerge the fire, as well as excluding the air needed for further combustion. 25000 WP is an excellent solution for a wide range of applications including: Petrochem production & storage facilities - Machinery spaces onboard ships and oil rigs - Process plants - Warehouses - Underground storage facilities - Aircraft hangars - Power plants - Cable tunnels





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