



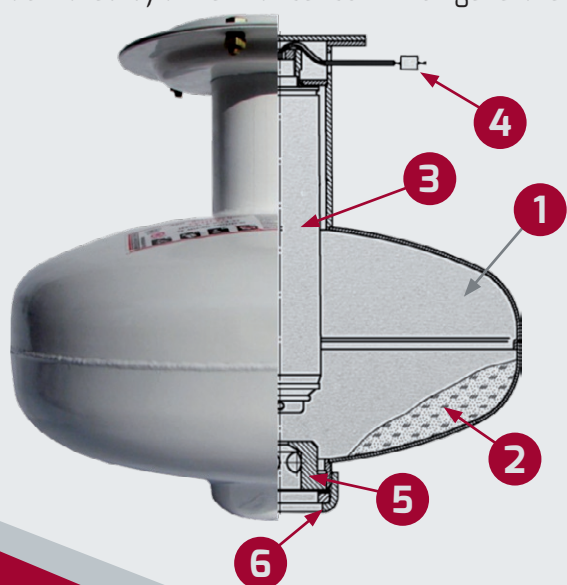
# SAPFIR

## REVOLUTIONARY AUTOMATIC POWDER FIRE SYSTEM

The revolutionary automatic, powder fire suppressant system is used to protect all types of buildings. It can be used internally in commercial and domestic kitchens, storage areas, shops, plant rooms and any other areas where there may be a risk of fire. The Sapfir system can also be used outdoors to protect petrol stations and oil storage areas.

The SAPFIR MPH range is available in different modules containing 0.5 kg to 22 kg of powder for different environmental conditions. The units can be mounted on the ceiling, on the wall or it can be mounted on the floor.

The modules have been developed to have a high extinguishing efficiency, providing effective fire fighting for classes A, B and C fires. The Sapfir system uses a non-conductive extinguishing agent, so it can be used on energised electrical fires (Class C fires) without the need to de-energise the circuit. Each independent unit is activated by a thermal sensor which generates a low



electrical current which activates the unit allowing the fire suppressing powder to be discharged. Each unit has a maintenance free, life expectancy of up to 12 years. None of the components and materials used in the manufacture of the Sapfir system are harmful to the environment.

The extinguishing powder is discharged at high pressure which ensures a very high, fire extinguishing efficiency.

The module consists of (See Fig 1.1) the housing (1), storing a dry powder (2) (ISTO-1), the cold gas generator (CGG) (3), the trigger to the electric element (4) and the powder outlet (5). In the lower part of the housing is the mouth opening (6) with a dispenser which is used to discharge the powder into the seat of fire.



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### Benefits of Sapfir automatic system:

No battery or mains electricity required; highly effective at extinguishing many classes of fires; reliable activation method, utilising a low current, self-generated electrical signal; can be mounted on walls ceilings or floors, with minimal visual impact; available in a range of low cost, well designed modules to suit individual requirements, replacing cumbersome, manually operated fire extinguishers.



### Main advantages of the Sapfir system:

- ▶ Each module operates independently with no requirement for cables, wires or plumbing.
- ▶ Sapfir modules can extinguish fires in any direction and place, indoors or outdoors.
- ▶ High efficiency firefighting (protecting areas up to 80 m<sup>2</sup>, or up to 250 m<sup>3</sup> volume for each module).
- ▶ Activated by an independent thermal sensor which generates an electrical signal with a very low current (from 120 to 150 mA).
- ▶ Automatic, quick response module enables fires to be extinguished at the earliest stage, which prevents the spread of fires inside and outside a building.
- ▶ The simply designed units ensure high reliability, low cost and mass availability.
- ▶ Long service life (12 years) without the need for regular technical servicing.
- ▶ High quality production in accordance with ISO 9001 international requirements.
- ▶ Security of performance (modules are not electrically energised during storage, use or service).



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