GARNET
FIRE SOLUTIONS

GARNET1230®

Our robust GARNET 1230 Engineered Fire Suppression systems are Underwriters Laboratories Inc. (UL) listed, FM Approved and SIRIM Tested. Designed for total flooding, our systems are built in full compliance with the NFPA 2001 "Standard on Clean Agent Fire Extinguishing Systems" and UL 2166 Standard for Halocarbon Clean Agent Extinguishing System Units. Overall, the application and installation of GEM 1230 must meet the requirements or standards set by the Local Authority Having Jurisdiction.





FK-5-1-12 Suppression Agent

Known as a Halocarbon Clean Fire Extinguishing Agent, FK-5-1-12 which is a combination of carbon, fluorine, and hydrogen (CF3CF2C(O)CF(CF3)2). FK-5-1-12 is a colourless, liquified compressed gas stored in welded cylinders, which is super-pressurised with dry nitrogen to 25 bar at 21°C (360 psi at 70°F). GEM 1230 systems are ideal for total flooding applications to suppress Class A, B and C fire hazards, and this is achieved by 80% heat absorption and 20% direct chemical means. Furthermore, FK-5-1-12 is environmentally friendly as it has zero ozone depletion potential.

FK-5-1-12 is:

- Listed under National Fire Protection Agency (NFPA) 2001, Standard on Clean Agent Fire Extinguishing Systems
- Listed under Underwriters Laboratories (UL)
- Factory Mutual (FM) approved
- Listed under U.S. Environmental Protection Agency
- Accepted by the Malaysian Fire and Rescue Department as a Halon replacement



01 Manual Actuator

The manual actuator features a push button that is used to depress the valve core and release pressure from the cylinder discharge valve. This hardware is designed to be fitted on the top of the cylinder valve assembly or electrical actuator by hand tight only.



03 Electrical Actuator

The electrical actuator is connected to the top of the cylinder discharge valve by hand tight only, and is located between the valve and the manual actuator. The electrical actuator requires 24V DC for operation.



02 Discharge Nozzles

Nozzles are devices through which the agent is discharged within the protected closure. Made from brass with female threads, nozzles are available in various sizes, and can be installed in a pendent or upright position.



04 Check Valve

Check Valves are hardware specially designed to be used when two or more cylinders are manifolded together with one common discharge piping configuration. The purpose of the check valve is to prevent loss of agent through manifold when any of the cylinder are not connected at the time of system discharge.

05 Pneumatic Actuator

The pneumatic actuator features a pneumatically driven piston that is used to depress the valve core and release pressure from the cylinder discharge valve. This hardware is designed to be fitted on the top of the cylinder valve assembly by hand tight only. The pressure from the master cylinder is used to actuate the cylinder discharge valve of the slave cylinder via a flexible hose.



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