

# GARNET200

## HFC-227ea Clean Agent Fire Suppression System

The GARNET200 HFC227ea Fire Suppression System is ideal for areas occupied by personnel and containing assets such as data and sensitive equipment that could be damaged by water. The system fights Class A, B and C fires with a clean agent that is electrically nonconductive and will not short out electronic equipment or thermally shock delicate circuitry. The colorless, odorless gas leaves no residue, eliminating post-fire agent cleanup and minimizing downtime. Both automatic and manual actuators are available for release of the agent into the hazard area through fixed piping and nozzles. For large hazards, agent containers can be connected to a common manifold.



**DISCHARGE 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.

**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.



**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.

**PNEUMATIC ACTUATOR** features a pneumatically driven piston that is used to depress the valve core and release pressure from the cylinder discharge valve. The pressure from the master cylinder is used to actuate the cylinder discharge valve of the slave cylinder via a flexible hose.



**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.

## CYLINDER ASSEMBLY



GARNET200's cylinder assembly consists of a cylinder factory fitted with a valve and syphon tube. Available in various sizes, the cylinder is filled with HFC-227ea and super-pressurised with dry nitrogen to 25 bar @ 21°C (360 psi @ 70°F). All cylinders are manufactured, tested, and labelled in accordance with DOT 4BW500.

Cylinders sizes :

16.7L , 28.3L , 52L , 106L , 147L , 180L and 369L.

One master cylinder and others slave cylinders are designated for multiple cylinders installed for intended to discharge simultaneously. In case there is a fire occurs, the master cylinder can be activated either electrically or manually. Whereas, the slave cylinders are activated pneumatically from the discharge action of master cylinder.

Typical Installation Diagram ▶



## FEATURES

- ▶ Effective against Class A, B, and C fires
- ▶ Colourless, odourless, and non-contaminating gaseous fire protection
- ▶ Protect critical assets and processes without causing damage
- ▶ Little to no post-discharge clean-up
- ▶ Safe to use in occupied areas
- ▶ Proven by thousands of successful installations worldwide

## APPLICATIONS

- ▶ Data centres
- ▶ Power generation
- ▶ Oil & Gas facilities
- ▶ Production plants
- ▶ Marine
- ▶ Museum & archives



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