

Halon and HCFC Phase Out

**Retrofit with Gielle
Clean agent Fire Suppression Systems**

- ▶ Utilize existing piping
- ▶ 1 to 1 cylinder/nozzle replacement
- ▶ Existing Halon Systems
- ▶ Existing HCFCs Systems
- ▶ Express service
- ▶ Worldwide 24h service
- ▶ Full range of International Approvals

AUTHORIZED • IMO HALON
BANKING
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GIELLE
INDUSTRIES

www.giellemarine.com

How to design the best fire protection for your vessel just in one easy step ...

Step 1 > Select a Gielle Fire Suppression System.

Gielle FM-200 and Novec 1230 engineered fire suppression systems are used to suppress fires in specific hazards or equipment where an electrically non-conductive agent is required, where agent cleanup creates a problem, where extinguishing capability with a low weight is desired and where the hazard is normally occupied.

Gielle **FM-200** and **Novec 1230** systems are intended to protect spaces containing the following hazards:

- ▶ Class A - surface type fires-wood or other cellulose type material
- ▶ Class B - flammable liquids
- ▶ Class C - energized electrical equipment



Life Safety

Gielle clean agent works by interrupting the fire on a molecular level, not by taking oxygen from the protected space. So it is the preferred fire suppression agent for protection of shipboard spaces where crew or other occupants may be present.

Marine Approvals

Gielle engineered Fire Suppression Systems are approved for use in marine applications such as machinery spaces and flammable liquid storage areas by major regulatory agencies such as UL, FM, LPC, USCG, ABS, DNV, MCA, TC and AMSA.

Weight

Gielle Fire Suppression Systems weigh less than either carbon dioxide or water mist systems. So they provide more fuel-efficient solutions to shipboard fire protection.

Space

Gielle Fire Suppression Systems take up less space than other types of fire suppression systems. This means more room for revenue-generating cargo or passengers. Before you leave port, make sure you've installed the right fire suppression system. A Gielle System. Designed, installed and serviced by the worldwide network of Gielle fire protection specialists.

Marine approvals

In addition to land-based approvals, the Gielle engineered fire suppression systems are approved by the marine regulatory bodies listed below. More marine approvals are pending.

- ▶ US Coast Guard
- ▶ American Bureau of Shipping (ABS)
- ▶ Maritime and Coastguard Agency (UK)
- ▶ Det Norske Veritas (DNV)
- ▶ Australian Maritime Safety Administration
- ▶ Swedish Maritime Administration
- ▶ Norwegian Maritime Directorate
- ▶ New Zealand Maritime Safety Admin.
- ▶ Registro Italiano Navale
- ▶ Germanischer Lloyd (GL)
- ▶ BV Bureau Veritas
- ▶ RS Russian Maritime Register of Shipping

System Design - Installation - Service

Gielle fire suppression systems are available through a global network of qualified distributors. Our distributors can provide the services—design & installation, retrofit,

recharge, and maintenance—necessary to keep your Gielle system functioning properly and in compliance with marine fire protection regulations.



Gielle designs, fabricates, installs and maintains Inergen, Argonite and others Fire Suppression Systems



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