



Kidde Marine Novec1230™

Fire Extinguishing System

Clean Agent for High Value Asset Protection

Approved for Category A Machinery Spaces and Cargo Pump Rooms

DESIGN

Kidde Marine Novec™ 1230 Systems are compliant with Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). Systems to be designed in accordance with the requirements of SOLAS (Safety Of Life At Sea) and FSS Code Chapter 5. The (MDC) Minimum Design Concentration for marine applications is 5.85%.

The most common design being a modular system with containers being distributed within and around the Engine Room. The systems are pneumatically operated by Nitrogen piped from a Kidde Release Station, which is a stainless steel cabinet housing two small nitrogen bottles, two control valves and micro-switches for operation of audible and visual warning devices.

CONTAINERS

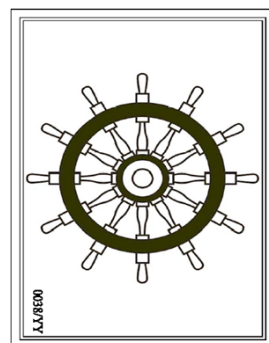
A wide range of container sizes from 5 to 368 litres is available, offering a choice of fill capacities to meet specific requirements and ensure maximum economy in installation. Each container is manufactured from high strength alloy steel and both TPED and DOT are available.

CLEAN

Novec™ 1230 fluid discharges as a colourless, electrically non-conductive and non-corrosive gas that does not damage sensitive equipment. There is no post-discharge residue, no costly clean-up operations are required, and down-time is kept to a minimum.

COST-EFFECTIVE

By using its tried and trusted range of 25 bar equipment, Kidde Fire Protection can offer a cost-effective Novec™ 1230 fire suppression system



EFFICIENT

Small and large-scale tests have proven that Novec™ 1230 fluid puts fire out quickly, before they can do any serious damage. It does this by reaching extinguishing concentrations in less than ten seconds, while being effective on Class B (Flammable Liquid Fires).

SYSTEM DESIGN

The Kidde Fire Protection system comprises Novec™ 1230 fluid stored in steel containers connected to distribution pipework and specially designed discharge nozzles.

Novec™ 1230 fluid is stored as a liquid super-pressurised to 25 bar with nitrogen. This allows efficient transport and vapourisation of the Novec fluid allowing flexible system design. These systems have minimal storage space and weight requirements compared to other viable gaseous agents.

The range of containers, valves and related components has been specially selected for use with Novec™ 1230 fluid and has been subjected to stringent testing procedures. Flexibility, quality and reliability make the Kidde Fire Protection range the world's finest in fire safety

Engineered systems are designed using FM Global and UL verified software and guidelines, that offer optimum designs for the defined risks with reduced pipe sizes, unbalanced flows and common room and void protection possible.

VALVES

Valves are designed for optimum system performance, allowing pipe sized to be reduced and installation costs to be lowered. They are manufactured from tough, corrosion-resistant brass under stringent quality control standards. A pressure monitoring gauge and optional supervisory pressure switches are provided for easy servicing. Valves are actuated by manual pneumatic release station or manual pull cable.

All related components from discharge nozzles to control heads are designed to be compatible, allowing a complete system to be configured using DNV:GL and BV Type approved system equipment.

NOZZLES

Custom-designed nozzles are available with normal pipe sizes from 6mm to 50mm, including 180° and 360° configurations.



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Typical Marine applications protected by a Novec 1230 Fluid Clean Agent System:

- Engine Rooms
- Pump Rooms
- FPSO Vessels
- Military Vessels
- Passenger Ships
- Oil Rigs

Integrated with Novec 1230 Fluid Clean Agent System components:

- Manual Pneumatic Release Station
- Containers
- Pressure Operated Control Heads
- Supervisory Pressure Switches
- Audible/Visual Warning Devices
- Manual (Cable-Wire) Pull Stations

Approvals & Listings:

- DNV:GL
- BV
- TPED
- MED



 **Kidde**
Fire Protection

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