



## Standard ECS with 3M™ Novec1230™ Fire Protection Fluid

### Fire Extinguishing System

#### Clean Agent for High Value Asset Protection

Novec™ 1230 fluid (FK-5-1-12) is a fluorinated ketone that is stored as a liquid and discharged as a gas. It distributes uniformly throughout the hazard zone, and suppresses fire primarily by heat absorption from the flame.

#### ENVIRONMENT

With a zero ozone depletion potential (ODP), a global warming potential (GWP) of just one, and an atmospheric lifetime (ALT) of only five days, Novec™ 1230 fluid offers an environmentally responsible option for fire extinguishing. With a low GWP, Novec 1230 does not fall under the European F-Gas Regulation, which imposes further control on minimising unwanted emissions and registration of use. When used in a fire event, the fluid mitigates the effect of an uncontrolled fire. At the end of the lifetime of the system, the fluid can be readily recovered and recycled.

#### 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 a wide range of Class A, Class B and fires involving energised electrical equipment.

## 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 electric solenoid, pneumatic, or local manual release at the control head.

All related components from discharge nozzles to control heads are designed to be compatible, allowing a complete system to be configured using FM Global and UL approved Kidde Fire Protection 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 applications protected by a Novec 1230 Fluid Clean Agent System:

- Health Care Facilities
- Internet Hosting Facilities
- Larger Manufacturing Complexes
- Multi-level Sites
- Recording Studios
- Telecommunications Facilities

## Integrated with Novec 1230 Fluid Clean Agent System components:

- Control Unit
- Smoke Detection
- Heat Detection
- Suppression Cylinders
- Notification Devices
- Manual Pull Stations

## Approvals & Listings:

- FM Global
- UL
- TPED
- CPR



 **Kidde**  
Fire Protection

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