

SEVO™ SYSTEMS

Safe Environmental Choice

FORCE500™

TOTAL FLOODING CLEAN AGENT



SEVO Systems products revolutionize the way you design, install and maintain clean agent fire suppression systems.

SEVO™ Systems 1230 FORCE500™ Clean Agent Fire Suppression System is a revolutionary new technology for clean agent systems that utilizes 3M™ Novec™ 1230 Fire Protection Fluid and its unique ability to be pressurized to 500 psi (34.5 bar).

It allows for longer pipe runs and smaller pipe diameters in addition to its cost saving benefits of using less clean agent in smaller and/or fewer cylinders per project. Along with these new engineering capabilities, it includes standard monitoring components such as an integrated pressure switch, pressure gauge, and gauge guard. The

low vapour pressure of Novec 1230 Fluid allows for use of low pressure welded cylinders and Schedule 40 piping.

Our True Retrofit® solution enables you to use existing piping and meet the requirements of industry standards and specifications by simply changing your cylinders and nozzles.

The cylinder valve assemblies are equipped with a pressure differential high flow rate valve in order to meet the rapid discharge time of 10 seconds specified in EN 15004. Valves are actuated by electric solenoid, pneumatic actuator or manual actuator relieving pressure above the piston permit the piston to thus fully open the valve and permit the agent to discharge through the valve outlet.



NOVEC 1230 Fire Protection Fluid

With zero ozone depletion potential, extremely low global warming potential and short atmospheric lifetime, Novec 1230 fluid is the first chemical halon replacement to offer a viable, long-term, sustainable technology for special hazards fire protection.

Because its use concentration is much

lower than its No Observable Adverse Effects Level (NOAEL), Novec 1230 fluid offers the largest margin of safety of any chemical halon replacement available on the market today. Note: Industry standards require egress from a protected enclosure prior to system discharge.

INSTALLATION

Our "plug and play" modular units are less costly than others and

easy to install. These pre-engineered, factory-built units, with

integrated detection and control, arrive pre-piped and ready to install.

FEATURES

LESS CLEAN AGENT NEEDED

The higher flow rate of the FORCE500 system allows for enhanced piping limitations. When protecting a main and subfloor hazard with a 360 psi system, a minimum additional 5% agent is required in the subfloor to compensate due to these piping limitations. By utilizing the FORCE500 system, no additional agent is required for the subfloor or subsequent areas.

REDUCTION IN COSTS

The higher pressure of the FORCE500 system allows the use of smaller cylinder sizes compared

to 360 psi systems. In large, multi-cylinder systems, the FORCE500 requires fewer cylinders than the equivalent 360 psi systems due to its added pressure.

INCREASED SINGLE NOZZLE COVERAGE

The new SEVO 2 1/2 inch nozzle covers 16, 640 cu. ft. (500 cu. meters) allowing for fewer nozzles with higher flow rates and less pipe.

RETROFIT OF EXISTING HALON & HFC SYSTEMS

SEVO Systems' retrofit of existing halon systems is a 1 for 1 cylinder

and nozzle replacement that includes a minimal cylinder footprint expansion. Retrofitting of existing halon systems features longer pipe runs, reduced nozzle pressure, resulting in a reduction in overall cost.

EFFICIENT AND FLEXIBLE PIPE NETWORKS

The FORCE500 features longer pipe lengths between the cylinder and nozzle as well as longer distances between the first and last nozzle. This allows for complex nozzle layouts with smaller pipe sizes and longer pipe runs.

REFILLING ON SITE

The SEVO CAPS (Clean Agent Pumping System) Fill & Recharge Station is an easy to use, highly portable pumping and pressurization system. This closed filling operation provides a SEVO approved method for filling and pressurization.



WARRANTY

The current and future environmental regulations add a tax or prohibit the use of products harmful to the environment.

Therefore, 3M™, Novac™ 1230 fluid manufacturer, offers a 20 year warranty on the product, which include the refunding the cost thereof to the end customer, if it is affected by any environmental regulation prohibits it or limits its use.



APPLICATIONS

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| Archives | Art Galleries |
| Clean Rooms | Gas Compressor Room |
| Combat Vehicles | Manufacturing |
| Cable Spreading Room | Medical Equipment |
| Computer Rooms | Medical Facilities |
| Cellular Facilities | Mass Transit Vehicles |
| Data Storage Facilities | Offshore |
| Electric Utility Facilities | Oil Rigs |
| Generator | Marine Vessels |
| Engine Room | Paint Rooms |
| Turbine Enclosures | Mix Rooms |
| IT Systems/Software | Pleasure Craft |
| Libraries | Network Centers |
| Museums | Pump Stations |