









MISSION

SEVO Systems' exclusive mission is to develop and commercialize clean agent, special hazards fire protection equipment optimized to take advantage of the unique properties of 3M™ Novec™ 1230 Fire Protection Fluid, differentiating SEVO from all others in the market.

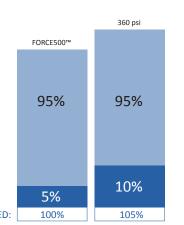
INTRODUCING THE FORCES OF Systems

OVERVIEW

The SEVO™ 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 vapor pressure of Novec 1230 Fluid allows for use of low pressure welded cylinders and Schedule 40 piping. With these revolutionary features, the FORCE500™ is a standout to conventional 360 psi (25 bar) systems.

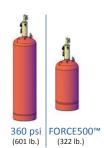
LESS CLEAN AGENT NEEDED

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.

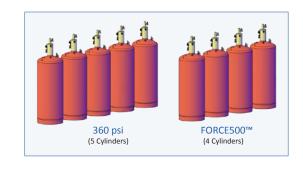


TOTAL AGENT USED:

SMALLER AND/OR **FEWER** CYLINDERS: 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 ½ inch nozzle covers 16,640 cu. ft. (500 cu. meters) allowing for fewer nozzles with higher flow rates and less pipe.

System	ft³	Nozzle Quantity	Nozzle Size
FORCE500™	16,640	1	2 1/2"
360 psi	16,640	2	2"



Smaller pipe diameters Note: All halon rentered hazard. Note: All halon rentered hazard. Note: All halon rentered hazard.

RETROFIT OF EXISTING HALON & HFC SYSTEMS

FEATURES:

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 of overall cost.

Note: All halon retrofit systems must be installed in accordance with approvals and listings including NFPA/ISO and local standards.

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.

APPLICATION

SEVO™ SYSTEMS PRODUCTS **REVOLUTIONIZE** THE WAY YOU

DESIGN, INSTALL AND MAINTAIN CLEAN AGENT FIRE SUPPRESSION SYSTEMS.

DESIGN: CYLINDER & VALVE SYSTEMS AVAILBLE IN 360 OR 500 PSI

SEVO Systems set the bar by being the first company to design special hazards fire suppression systems with 3M[™] Novec[™] 1230 Fire Protection Fluid. Other companies using this environmentally sustainable solution only offer 25 bar (360 psi) pre-engineered and engineered systems. We raised the bar by being the only company to offer 34.5 bar (500 psi) systems. More pressure allows retrofit of existing Halon 1301 systems while utilizing welded cylinders.

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, as specified in NFPA 2001. Valves are actuated by electric solenoids, pneumatic actuators or manual actuators relieving pressure above the piston. This permits the piston to fully open the valve to allow the agent to discharge through the valve outlet.



Electric Utility Facilities

Engine Protection

Medical Equipment/Facilities

Merchant Marine Vessels

Mix Rooms

Network Centers

Turbine Enclosures

IT Systems/Software

,

Gas Compressor Rooms

Manufacturing Facilities

(Ų)









INSTALL: PIPE FREE UNITS

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 use. These modular units have become the industry standard for telecom, power gen and data center installation.

MAINTAIN: FILL & REFILL SYSTEMS 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.

The SEVO CAPS Station eliminates the need to remove agent storage cylinders requiring service by providing the user with a lightweight, tray mounted pump that can be taken into the field. All components are housed in a durable rolling case for ease of transportation from site to site.



Offshore Oil Rigs

Paint Rooms

Pleasure Craft

Pump Stations

Mass Transit Vehicles

Combat Vehicles
Computer Rooms

Clean Rooms

Data Storage Facilities

Libraries & Museums

Archives

Automobiles

Cable Spreading Rooms

Cellular Sites

Generators

3M™ Novec™ 1230 Fire Protection Fluid

3M's Blue Sky[™] Warranty is a 20-year protection against regulatory bans or restrictions on the use of 3M[™] Novec[™] 1230 Fire Protection Fluid

A long-term, sustainable technology

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.

ENVIRONMENTAL PROPERTIES	NOVEC 1230	Halon 1301	HFC-125	HFC-227ea
Ozone Depletion Potential ¹	0.0	12.0	0.0	0.0
Global Warming Potential ²	1	7140	3500	3220
Atmospheric Lifetime (Years)	0.014 (5 Days)	65	34.2	29
SNAP (Yes/No)	Yes	N/A	Yes	Yes

¹ Word Meteorological Organization (WMO) 1998, Model-Derived Method

Today's largest margin of safety

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.

SAFETY MARGIN	NOVEC 1230	Halon 1301	HFC-125	HFC-227ea
Use Concentration	4-6%	5%	8.7-12.1%	7-8.7%
NOAEL ³	10%4	5%	7.5%	9%
Safety Margin	71-138%	Nil	Nil	3-20%

³ NOAEL for Cardiac Sensitization

3M[™] Novec[™] 1230 Fire Protection Fluid is based on sustainable technology, designed to balance industry concerns for human safety, performance, and the environment. This unique agent is an advanced replacement for halon and first generation halon alternatives.

For more information on the benefits of Novec 1230 Fluid, please visit 3M.com/Novec 1230fluid.









Intergovernmental Panel on Climate Change (IPCC) 2007 Method, 100-year ITH

⁴ NOAEL for acute toxicity, including cardiac sensitization

WORLDWIDE PROTECTION:

SEVO MISSION CRITICAL SERVICES

ENGINEERING DESIGN & SPECIFICATIONS



Our NICET certified engineering staff works to provide design solutions and assistance to meet your specifications utilizing our Design & Installation Drawing Package.

These services include:

- · Design
- · Specification
- · Hydraulic Flow Calculations
- · Mechanical & Electrical Drawings
- · Submittal Drawings
- · Installation Drawings

TRAINING

Proper knowledge and training of fire extinguishing systems and agents is imperative to maintain safety in the industry. SEVO Systems offers training sessions to provide classroom instruction and hands-on training of the SEVO 1230 product line and $3M^{TM}$ NovecTM 1230 Fire Protection Fluid.

INSPECTION OF INSTALLATION

SEVO Systems offers field support services conducted by a factory field representative to give verification that the installation of the SEVO 1230 Clean Agent System meets our manufacturer guidelines, NFPA 2001 requirements and local jurisdiction. The SEVO factory representative trains the contractor onsite, giving the knowledge of verification to meet future code compliance for installations of SEVO 1230 Clean Agent Systems.

These services include:

- · Verification of code compliance with NFPA 2001 (2008 edition)
- · Preconstruction Project review
- · Mechanical equipment review & verification
- · Room Integrity Test Preliminary/AHJ Requirements
- · Retrofit Certification replacement of Halon 1301 systems

REFILL & RECHARGE



The SEVO CAPS (Clean Agent Pumping System) Refill & Recharge Station provides a SEVO approved method for refilling and pressurization. SEVO Systems' global network of authorized retailers allows for immediate onsite refill after a system discharge to meet NFPA 2001 requirements.

ROOM INTEGRITY TESTING



A room integrity test (also referred to as a door fan test) is a recommended procedure in lieu of a discharge test on clean agent fire suppression systems. Both NFPA 2001 and 12A require an

enclosure test (section 4-7.2.3) as part of the acceptance procedure for all clean agent systems. Our technicians are trained on and use only Retrotec room integrity testing equipment. Our commitment to use state of the art testing equipment assures you will receive the most accurate information available. A fan test performed by us gives you the peace of mind of knowing the fire suppression system will hold the concentration of agent as designed.

SERVICES:

- DESIGN
- INSPECTION
- ROOM INTEGRITY TESTING
- TRAINING
- REFILL





Info@SEVOSystems.com www.SEVOSystems.com



SOUTH AMERICA: COLOMBIA

BRAZIL

EUROPE: SPAIN

MIDDLE EAST: JORDAN

ASIA: MALAYSIA









HISTORY OF SEVO SYSTEMS

SEVO Systems was formed in 2001 to develop and commercialize a revolutionary new technology, 3M™ Novec™ 1230 Fire Protection Fluid. This development represented a major breakthrough in halon replacement technology - combining high extinguishing efficiency with excellent environmental, health and safety properties. Exclusively utilizing Novec 1230 Fluid, SEVO revolutionizes the way clean agent fire suppression systems are designed, installed and maintained.

MEDICAL EQUIPMENT & FACILITIES MERCHANT MARINE VESSELS MIX ROOMS NETWORK CENTERS AUTOMOBILES TURBINE ENCLOSURES ELECTRIC UTILITY FACILITIES ENGINE PROTECTION IT SYSTEMS & SOFTWARE PAINT ROOMS CELLULAR SITES GENERATORS MANUFACTURING FACILITIES OFFSHORE OIL RIGS PAINT ROOMS PLEASURE CRAFT PUMP STATIONS MASS TRANSIT CLEAN ROOMS COMBAT VEHICLES COMPUTER ROOMS DATA STORAGE FACILITIES LIBRARIES & MUSEUMS ARCHIVES AUTOMOBILES CABLE SPREADING ROOMS CELLULAR SITES GENERATORS MEDICAL EQUIPMENT & FACILITIES MERCHANT MARINE VESSELS MIX ROOMS NETWORK CENTERS AUTOMOBILES TURBINE ENCLOSURES ELECTRIC UTILITY FACILITIES ENGINE PROTECTION IT SYSTEMS & SOFTWARE PAINT ROOMS CELLULAR SITES GENERATORS MANUFACTURING FACILITIES OFFSHORE OIL RIGS PAINT ROOMS PLEASURE CRAFT PUMP STATIONS MASS TRANSIT CLEAN ROOMS COMBAT VEHICLES COMPUTER ROOMS DATA STORAGE FACILITIES. LIBRARIES & MUSEUMS ARCHIVES AUTOMOBILES CABLE SPREADING ROOMS CELLULAR SITES GENERATORS MEDICAL EQUIPMENT & FACILITIES MERCHANT MARINE VESSELS MIX ROOMS NETWORK CENTERS AUTOMOBILES TURBINE ENCLOSURES ELECTRIC UTILITY FACILITIES ENGINE PROTECTION IT SYSTEMS & SOFTWARE PAINT ROOMS CELLULAR SITES GENERATORS MANUFACTURING FACILITIES OFFSHORE OIL RIGS PAINT ROOMS PLEASURE CRAFT PUMP STATIONS MASS TRANSIT CLEAN ROOMS COMBAT VEHICLES COMPUTER ROOMS DATA STORAGE FACILITIES LIBRARIES & MUSEUMS ARCHIVES AUTOMOBILES CABLE SPREADING ROOMS CELLULAR SITES GENERATORS MEDICAL EQUIPMENT & FACILITIES MERCHANT MARINE VESSELS MIX ROOMS NETWORK CENTERS AUTOMOBILES TURBINE ENCLOSURES ELECTRIC UTILITY FACILITIES ENGINE PROTECTION IT SYSTEMS & SOFTWARE PAINT ROOMS CELLULAR SITES GENERATORS MANUFACTURING FACILITIES OFFSHORE OIL RIGS PAINT ROOMS PLEASURE CRAFT PUMP STATIONS MASS TRANSIT CLEAN ROOMS COMBAT VEHICLES COMPUTER ROOMS DATA STORAGE FACILITIES LIBRARIES & MUSEUMS ARCHIVES AUTOMOBILES CABLE SPREADING ROOMS CELLULAR SITES GENERATORS MEDICAL EQUIPMENT & FACILITIES MERCHANT MARINE VESSELS MIX ROOMS NETWORK CENTERS AUTOMOBILES TURBINE ENCLOSURES ELECTRIC UTILITY FACILITIES ENGINE PROTECTION IT SYSTEMS & SOFTWARE PAINT ROOMS CELLULAR SITES GENERATORS MANUFACTURING FACILITIES OFFSHORE OIL RIGS PAINT ROOMS PLEASURE CRAFT PUMP STATIONS MASS TRANSIT CLEAN ROOMS COMBAT VEHICLES COMPUTER ROOMS DATA STORAGE FACILITIES. LIBRARIES & MUSEUMS ARCHIVES AUTOMOBILES CABLE SPREADING ROOMS CELLULAR SITES GENERATORS MEDICAL EQUIPMENT & FACILITIES MERCHANT MARINE VESSELS MIX ROOMS NETWORK CENTERS AUTOMOBILES TURBINE ENCLOSURES ELECTRIC UTILITY FACILITIES ENGINE PROTECTION IT SYSTEMS & SOFTWARE PAINT ROOMS CELLULAR SITES GENERATORS MANUFACTURING FACILITIES OFFSHORE OIL RIGS PAINT ROOMS PLEASURE CRAFT PUMP STATIONS MASS TRANSIT CLEAN ROOMS COMBAT VEHICLES COMPUTER ROOMS DATA STORAGE FACILITIES. LIBRARIES & MUSEUMS ARCHIVES AUTOMOBILES CABLE SPREADING ROOMS CELLULAR SITES GENERATORS MEDICAL EQUIPMENT & FACILITIES MERCHANT MARINE VESSELS MIX ROOMS NETWORK CENTERS AUTOMOBILES TURBINE ENCLOSURES FLECTRIC UTILITY FACILITIES FINGINE PROTECTION IT SYSTEMS & SOFTWARE CELLULAR SITES GENERATORS MANUFACTURING FACILITIES OFFSHORE OIL RIGS PAINT ROOMS PLEASURE CRAFT MEDICAL EQUIPMENT & FACILITIES MERCHANT MARINE VESSELS MIX ROOMS NETWORK CENTERS AUTOMOBILES ENGINE PROTECTION MIX ROOMS

Authorized Distributor



Contact Us +1 (416) 236-2371 www.controlfiresystems.com

+1.913.677.1112 Info@SEVOSystems.com www.SEVOSystems.com 14335 W. 97th Terrace • Lenexa, Kansas • 66215 • USA

