

# MODULAR

MCV-N & FCV-N SERIES



**SEV**  **SYSTEMS**  
*Safe Environmental Choice*

CLEAN AGENT FIRE SUPPRESSION SYSTEMS

## APPLICATIONS

Medical Facilities

Network Centers

Electric Utility Facilities

IT Systems/Software

Clean Rooms

Data Centers

Electrical Substations

Data Storage Facilities

Libraries & Museums

Archives

Cellular Sites



## MCV-N SERIES featuring



The MCV (Modular/Cylinder/Valve Assembly) Series is an integrated Clean Agent Fire Suppression System equipped with the Notifier RP 2002 agent releasing control panel that is prewired and preprogrammed. The electric actuator, piezo alarm, horn/strobe, and maintenance disable switch are prewired to the agent releasing control panel allowing for minimal remote devices to be wired.



### COMPATIBLE COMPONENTS



i<sup>3</sup> Series  
Detector



NBG - 12LR  
Releasing Station



P2R  
Horn/Strobe



N-ANN-80  
Annunciator

## FCV-N SERIES featuring



The FCV (Frame/Cylinder/Valve Assembly) Series is a stand alone Clean Agent Fire Suppression System. The FCV is designed for integration with current fire alarm control panels (agent releasing capable). The electric solenoid is prewired to Notifier FCM-1-REL module or termination block.

### COMPATIBLE COMPONENTS



NFS - 320  
Releasing  
Control Panel



System Sensor  
Detectors



NBG - 12LX  
Releasing Station



P2R  
Horn/Strobe



Each MCV and FCV Series comes equipped with SEVO 1230 Clean Agent Fire Suppression system filled with 3M™ Novec™ 1230 Fire Protection Fluid. Systems are available with standard 360 psi (25 bar) storage pressure, with sizes available to cover between 424 - 15,850 ft<sup>3</sup>.

### KEY FEATURES

- Simple and quick installation
- No piping installation required
- Standard low voltage connection to control circuits
- Available as pre-engineered or engineered

# 3M™ Novec™ 1230 Fire Protection Fluid

3M's Blue Sky<sup>SM</sup> 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 <sup>1</sup>	0.0	12.0	0.0	0.0
Global Warming Potential <sup>2</sup>	1	7140	3500	3220
Atmospheric Lifetime (Years)	0.014 (5 Days)	65	34.2	29
SNAP (Yes/No)	Yes	N/A	Yes	Yes

<sup>1</sup> World Meteorological Organization (WMO) 1998, Model-Derived Method

<sup>2</sup> Intergovernmental Panel on Climate Change (IPCC) 2007 Method, 100-year 1TH

## 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 <sup>3</sup>	10% <sup>4</sup>	5%	7.5%	9%
Safety Margin	71-138%	Nil	Nil	3-20%

<sup>3</sup> NOAEL for Cardiac Sensitization

<sup>4</sup> NOAEL for acute toxicity, including 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/Novec1230fluid](http://3M.com/Novec1230fluid).



SEVO Systems distribution  
is established in over 55 countries,  
on six continents.



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**SEVO**  **SYSTEMS**  
*Safe Environmental Choice*

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