

# Force500™



**SEVO™ SYSTEMS**  
Clean Agent Fire Suppression Solutions

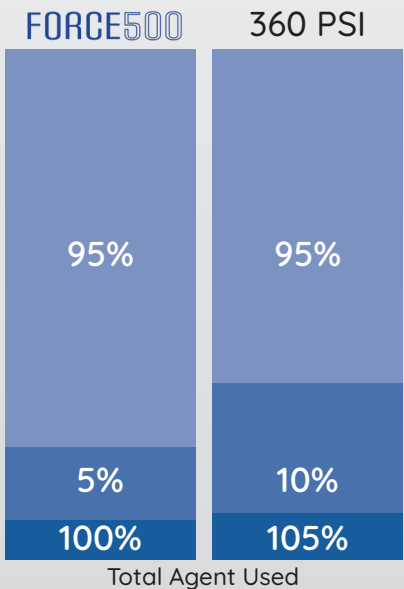
# Raising the BAR

The SEVO™ 1230 FORCE500™ Clean Agent Fire Suppression System is a revolutionary technology for clean agent systems that utilizes FK-5-1-12 Fire Protection Fluid and its unique ability to be pressurized to 500 psi (34.5 bar). This 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 FK-5-1-12 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 sub-floor to compensate due to these piping limitations.

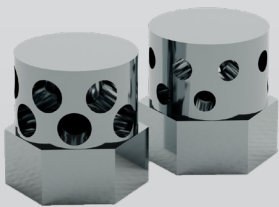
By Utilizing the FORCE500 system, no additional agent is required for the sub-floor or subsequent areas.



500 PSI  
(322 Lb.)      360 PSI  
(601 Lb.)

## 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	FT <sup>3</sup>	NOZZLE QTY	NOZZLE SIZE
FORCE 500	16,640	1	2.5"
360 PSI	16,640	2	2"

## SMALLER CYLINDERS

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.

# Retrofit 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 of 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.

80% - 300% longer pipe runs allow for remote cylinder locations away from protected hazard.

# Clean Agent FK-5-1-12

FK-5-1-12 Fire Protection Fluid - a highly effective and environmentally safe substitute for halon, designed to provide exceptional fire protection performance with the widest safety margin among all clean agents.

This innovative fire protection fluid is composed of dodecafluoro-2-methylpentan-3-one, a fluoroketone chemical with zero ozone depletion potential and a global warming potential of less than 1. As a testament to its quality, FK-5-1-12 Fire Protection Fluid is listed in the National Fire Protection Association and ISO 14520 clean agent standards under its ASHRAE nomenclature, FK-5-1-12.

Properties	FK-5-1-12	Halon 1211	Halon 1301	HFC-125	HFC-227ea
Ozone depletion potential (ODP) <sup>1</sup>	0.0	4.0	12.0	0.0	0.0
Global warming potential - IPCC <sup>2</sup>	<1	1750	6290	3170	3350
Atmospheric lifetime (Years)	0.019	16	65	28.2	38.9
SNAP (Yes/No)	Yes	N/A	N/A	No	No



## CAPS REFILLING SYSTEM: PORTABLE REFILL AND RECHARGE ON-SITE

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

