

**SEVO<sup>®</sup> 1230 Cabinet System**  
 3M™ Novec™ 1230 Fire Protection Fluid

**ENGINEER AND ARCHITECT SPECIFICATIONS**

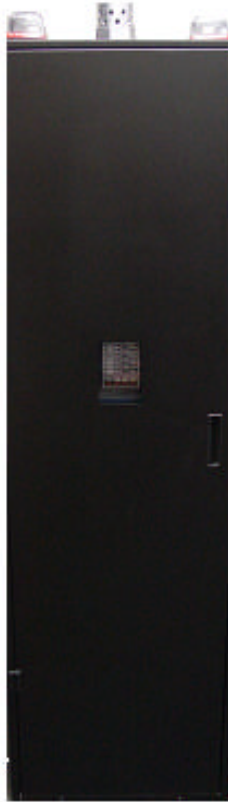
**MODELS: 40, 76, 164, 322, & 601**

**Features**

- STEEL FRAME CONSTRUCTION
- TOTALLY SELF-CONTAINED
- MULTI-LEVEL ANNUNCIATION
- FREE STANDING INSTALLATION
- MAY BE INSTALLED BY YOUR TECHNICIANS
- FULL FRONT GRAPHIC DISPLAY
- FUNCTIONAL CALL BACK FEATURE
- ENCLOSED CENTRAL LOCATED

**Options**

- Remote Abort / Release Station
- Exterior Audible / Visual Alarms
- Audible Detection Alarms
- Underfloor Coverage / Detection
- Interior Annunciation
- Remote Graphic Display



**Description**

The “SEVO 1230 Cabinet System” is a complete factory assembled, enclosed fire containment system. Each unit is a factory tested, neat, clean, & space saving. Simply mount convert power and detection, requiring minimum labor cost and time. Unit is easily removed and reinstalled. Class “A” dual verified detection is provided to prevent false discharges. Abort / Release Control Switches, Audible Horn and Visual Strobe are pre-wired for a complete operational unit. Contacts are provided for interface with monitoring and environmental controls.

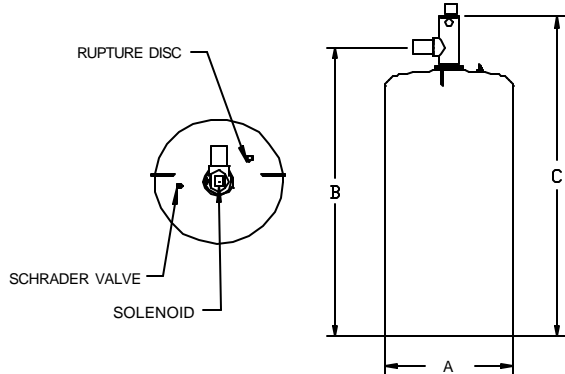
**Engineer and Architect Specification**

Each Unit shall be installed in central location secured to raised or finished floor.

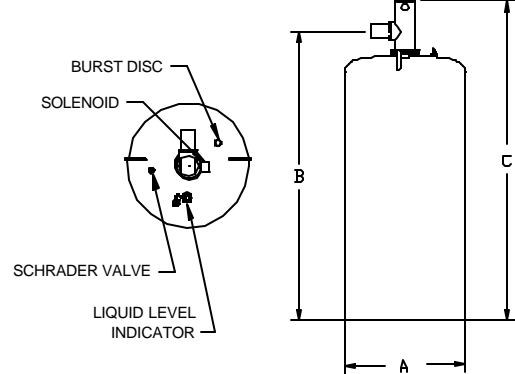
Unit Size	Dimension		
	L	W	H
40-601	24"	24"	80"

Placement shall be in accordance with the instructions in the installation manual, per the UL Listing and FM Approval for the nozzle coverage. Location shall be governed by the control function for the protected hazard.

**40, 76, & 164 (lbs)**  
**15, 29, & 62 (L)**



**322 & 601 (lbs)**  
**122 & 227 (L)**



U.S. SIZES AND DIMENSIONS					
Part No.	140069	140079	14817	140057	14813
Cyl. Size (lbs)	40	76	164	322	601
Volume (ft <sup>3</sup> )	0.53	1.02	2.19	4.3	8.02
Allowable Fill (lbs)	16-40	31-76	66-164	129-322	241-601
Weight (lbs)	38	52	98	220	320
A (in.)	10 <sup>1/16</sup>	10 <sup>1/16</sup>	12 <sup>7/8</sup>	20	20
B (in.)	17 <sup>1/4</sup>	35 <sup>1/4</sup>	37	32 <sup>7/8</sup>	54 <sup>1/4</sup>
C (in.)	21 <sup>3/8</sup>	39 <sup>3/8</sup>	41 <sup>1/8</sup>	36	57 <sup>3/8</sup>

METRIC SIZES AND DIMENSIONS					
Part No.	140069	140079	14817	140057	14813
Cyl. Size (L)	15	29	62	122	227
Allowable Fill (kg)	7-18	14-34.5	30-74.5	58.5-146	109-272.5
Weight (kg)	17.2	23.6	44.5	99.8	145.1
A (mm)	255.59	255.59	327	508	508
B (mm)	438.15	895.35	939.8	835	1378
C (mm)	543	1000.13	1044.58	314.4	1457.33



A MODULAR PROTECTION<sup>®</sup> 1002M Control panel has been designed as a compact control panel for Special Hazard Fire Protection System applications. The microprocessor based unit is suitable to perform detection and control functions associated with the following:

- Novec<sup>™</sup> 1230 fluid
- NFPA 12 High Pressure CO<sub>2</sub> Systems
- NFPA 12A Halon 1301 Systems.
- NFPA 2001 CEA Systems
- NFPA 72 Local Signaling Systems

The Mod 1002M features four power limited inputs which are Class A or Class B supervised. Two detection zones are suitable for smoke detectors, thermal detectors and normally open alarm initiating devices. The detection zones are programmable for single zone or cross-zone detection. Two additional inputs are provided for manual and abort stations.

The Sevo<sup>®</sup> 1230 system nozzles are designed to provide rapid and thorough vaporization and distribution of agent with the air in the protected space. Standard nozzles are made of aluminum. Pre-engineered system nozzles are made in three pipe sizes, 1", 1 ½", and 2".

Both 180° and 360° nozzles were tested for a maximum area coverage using a 32' wide by 32' long enclosure.

The cylinder valves are of a pressure-seated high flow rate design, in order to meet the rapid discharge time specified in NFPA 2001. Each has a brass body, a brass piston with resilient seat, a pressure releasing pilot check, a safety disc assembly, a pressure gauge, and an electric solenoid valve. This relieves the pressure above the piston and permits the piston to travel upward, thus fully opening the valve and permitting the agent to discharge through the outlet. The discharge outlet is fired with an anti-recoil plug, which is a safety device to prevent violent movement of the cylinder in the event of discharge while the cylinder valve is not connected to the piping system structure.