



Safety Awareness Bulletin:

MAE Fire Detection and suppression Systems UL vs. FM Listing

UL vs. FM Listing for MAE Systems

Occasionally someone starts referencing standards, i.e. UL 2166 and “UL” and often the terms are used out of context, or in a generic sense.

The MAE Fire Detection and Suppression system was tested and approved by Factory Mutual (FM) which is a similar “Listing” body like Underwriter’s Laboratories (UL). FM has tested , approved, and certified the MAE System to the FM5600 Clean Agent Suppression Systems standard. Factory Mutual is recognized by NFPA as a listed body.

The 2018 Edition of NFPA 2001 defines “**Listed**” in section 3.2.3 as:

Equipment, materials or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that either the equipment, material, or service meets appropriate designated standards or has been tested and found suitable for a specified purpose.

Factory Mutual has tested and approved the MAE system per their criteria and found the system suitable for its intended purpose.

Unless a specific Authority Having Jurisdiction (AHJ) has a *specific written regulation* requiring a specific approval or listing, i.e. UL, FM is as acceptable as UL and the systems both meet the “Listed” intent of NFPA 2001 2018 Edition.





Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

System Designation:	Fireboy Manual/Automatic/Electric and Manual/Electric (MAE Series) Pre-Engineered Clean Agent Extinguishing Systems with 3M™ Novec™ 1230 Fire Protection Fluid
Design, Installation, Operation, and Maintenance Manuals:	Fireboy-Xintex 3M™ Novec™ 1230 Fire Protection Fluid - MAEXXXNVC-BXXXX Manual/Automatic/Electric, 175°F (79°C) Bulb, MAEXXXNVC-30BXX Manual/Automatic/Electric, 155°F (68°C) Bulb, MAEXXXNVC-33BXX Manual/Automatic/Electric, 135°F (57°C) Bulb - Owner's Manual & Installation Instructions, Document Number 18040, Revision E, 08/03/2018
	Fireboy-Xintex 3M™ Novec™ 1230 Fire Protection Fluid - MAEXXXNVC-UBXXX Manual/Automatic/Electric, Upside Down, 175°F (79°C) Bulb, MAEXXXNVC-U30BX Manual/Automatic/Electric, Upside Down, 155°F (68°C) Bulb, MAEXXXNVC-U33BX Manual/Automatic/Electric, Upside Down, 135°F (57°C) Bulb, MAEXXXNVC-U40BX Manual/Electric, Upside Down, Empty Bulb - Owner's Manual & Installation Instructions, Document Number 18041, Revision D, 07/16/2018
	Fireboy-Xintex 3M™ Novec™ 1230 Fire Protection Fluid - MAEXXXNVC-40BXX Manual/Electric, Empty Bulb - Owner's Manual & Installation Instructions, Document Number 18042, Revision C, 07/16/2018
	Fireboy-Xintex 3M™ Novec™ 1230 Fire Protection Fluid - MAEXXXNVC-XXXX Manual/Automatic/Electric, 175°F (79°C) Bulb, MAEXXXNVC-30XXX Manual/Automatic/Electric, 155°F (68°C) Bulb, MAEXXXNVC-33XXX Manual/Automatic/Electric, 135°F (57°C) Bulb - Owner's Manual & Installation Instructions, Document Number 18043, Revision B, 08/02/2018
	Fireboy-Xintex 3M™ Novec™ 1230 Fire Protection Fluid - MAEXXXNVC-UXXXX Manual/Automatic/Electric, Upside Down, 175°F (79°C) Bulb, MAEXXXNVC-U30XX Manual/Automatic/Electric, Upside Down, 155°F (68°C) Bulb, MAEXXXNVC-U33XX Manual/Automatic/Electric, Upside Down, 135°F (57°C) Bulb, MAEXXXNVC-U40XX Manual/Electric, Upside Down, Empty Bulb - Owner's Manual & Installation Instructions, Document Number 18044, Revision A, 07/16/2018
	Fireboy-Xintex 3M™ Novec™ 1230 Fire Protection Fluid - MAEXXXNVC-40XXX Manual/Electric, Empty Bulb - Owner's Manual & Installation Instructions, Document Number 18045, Revision A, 07/16/2018

Approval Guide Listing Category: Fixed Extinguishing Systems, Clean Agent Extinguishing Systems

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This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standard(s):

Approval Standards
Class Number Date
5600 April 2013

FM Approvals Listing Class: 5612



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