

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20181127-EX15893  
**Report Reference** EX15893-20071113  
**Issue Date** 2018-NOVEMBER-27

**Issued to:** FIRETRACE USA L L C  
SUITE 2  
8435 N 90TH ST  
SCOTTSDALE AZ 85258

**This certificate confirms that representative samples of** CLEAN AGENT EXTINGUISHING SYSTEM UNITS  
, Complementary Product Category CLEAN AGENT  
EXTINGUISHING SYSTEM UNITS  
SEE NEXT PAGE

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/CAN/UL/ULC 2166 Standard for Halocarbon Clean Agent Extinguishing System Units

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20181127-EX15893  
**Report Reference** EX15893-20071113  
**Issue Date** 2018-NOVEMBER-27

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

**Models:**

USL and CNL - HFC-227ea, designated as HFC-227ea, Clean Agent Engineered Extinguishing System Units, stored pressure type. The units are super-pressurized with nitrogen to 360 psig at an ambient temperature of 70°F, and have an operating temperature range of 32 to 130°F. The extinguishing system units are intended for use in accordance with the installation, operation, and maintenance instruction manual p/n FTF-000001 Rev B, dated June 7, 2018. These installations required the use of the Listee's flow calculation software HFC-227ea Flow Calc Software, FTF 4.00 dated May 2016, for engineered units

MODEL	CYLINDER (Nominal)	FILL RANGE (lbs)		FILL RANGE (kgs)		VALVE SIZE (Nominal)
		Minimum	Maximum	Minimum	Maximum	
FTF000035 / 200035	35 lbs (15L)	16	35	7.5	16.0	1" (25mm)
FTF000070 / 200070	70 lbs (29L)	31	71	14.0	32.0	1" (25mm)
FTF000150 / 200150	150 lbs (62L)	66	152	30.0	69.0	1 ½" (40mm)
FTF000250 / 200250	250 lbs (103L)	109	253	49.5	114.5	1 ½" (40mm)
FTF000375 / 200375	375 lbs (153L)	163	379	74.0	172.0	2 ½" (65mm)
FTF000560 / 200560	560 lbs (227L)	241	561	109.5	254.5	2 ½" (65mm)
FTF000900 / 200900	900 lbs (368L)	390	910	177.5	412.5	2 ½" (65mm)
FTF001200 / 201200	1200 lbs (490L)	519	1211	234.0	549.5	4" (100mm)

USL and CNL - HFC-227ea, designated as HFC-227ea, Clean Agent Engineered Extinguishing System Units, stored pressure type. The units are super-pressurized with nitrogen to 360 psig at an ambient temperature of 70°F, and have an operating temperature range of 32 to 130°F. The extinguishing system units are intended for use in accordance with the installation, operation, and maintenance instruction manual p/n 01-001338-A, dated May 24, 2016. These installations required the use of the Listee's flow calculation software HFC-227ea Flow Calc Software, FTF 4.00 dated May 2016, for engineered units.

MODEL	CYLINDER (Nominal)	FILL RANGE (lbs)		FILL RANGE (kgs)		VALVE SIZE (Nominal)
		Minimum	Maximum	Minimum	Maximum	
01-001372	35 lbs (15L)	16	35	7.5	16.0	1" (25mm)
01-001407	70 lbs (29L)	31	71	14.0	32.0	1" (25mm)
01-001487	150 lbs (62L)	66	152	30.0	69.0	1 ½" (40mm)



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20181127-EX15893  
**Report Reference** EX15893-20071113  
**Issue Date** 2018-NOVEMBER-27

01-001587	250 lbs (103L)	109	253	49.5	114.5	1 ½" (40mm)
01-001712	375 lbs (153L)	163	379	74.0	172.0	2 ½" (65mm)
01-001897	560 lbs (227L)	241	561	109.5	254.5	2 ½" (65mm)
01-002237	900 lbs (368L)	390	910	177.5	412.5	2 ½" (65mm)
01-002537	1200 lbs (490L)	519	1211	234.0	549.5	4" (100mm)



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>

