

CERTIFICATE OF COMPLIANCE

Certificate Number EX4510
Report Reference EX4510
Issue Date 2023-FEBRUARY-20

Issued to: Fire & Hazard Control Equipment Co. Ltd.
Manufacturer Company: 69th Street
P.O. Box 8401
Dammam II Industrial Area
Dammam 31482 SA

Listed Company: Ansul
1 Stanton St.
Marinette, WI 54143-2542 USA

This is to certify that Clean-Agent Extinguishing System Units
representative samples of See Addendum for Model information

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

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

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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contact UL Customer Service at <http://ul.com/aboutul/locations>.



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

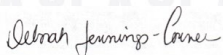
Sapphire® Clean Agent Extinguishing System Units containing 3M™Novec™ 1230 Fire Protection Fluid (FK-5-1-12), stored pressure type, having nominal storage capacities as shown below of Novec™1230 Fluid (FK-5-1-12). The System Units are pressurized to 360 psig (25 bar) at 70°F with an operating temperature range of 32°F to 130°F (0°C to 54°C). The units are designed for total flooding protection against Class A surface burning, Class B flammable liquid and Class C fires occurring within an enclosure. A description of these extinguishing system units and the design and installation limitations are contained in the Listee's installation manual P/N 570590, Rev. 5, issued September 14, 2020 - the Bulletin 16445 for ANSUL SAPPHIRE corrosion resistant (CR) painted PESO containers for INDIA, dated December 2021, and the Manual Bulletin p/n 16446, Halocarbon ATEX Components (Electrical Actuator & Low- Pressure Switch), dated December 2021. These installations require the use of the Listee's flow calculation software ANSL 3.61b or TYCO4.00, or Software Design Center(SDC) online interface utilizing Version 4.18W. Copies are available from the above Listee.

Sapphire® Clean Agent Extinguishing System Units containing FK-5-1-12, stored pressure type, having nominal storage capacities as shown below of FK-5-1-12 extinguishing agent. The System Units are pressurized to 360 psig (25 bar) at 70°F with an operating temperatures of 32°F to 130°F (0°C to 54°C).

These System Units are designed for total flooding protection against Class A surface burning, Class B flammable liquid and Class C fires occurring within an enclosure. A description of these extinguishing system units and the design and installation limitations are contained in the Listee's installation manual 451540, dated July 5, 2022, Rev.00. These installations require the use of the Listee's flow calculation software TYCO4.00. Copies are available from the above Listee.

AGENT STORAGE CONTAINER ASSEMBLY

Weight of Agent (kg)	Part No.
4 - 9.5	570635
7.5 - 18	303207300, 303207310
8 - 19	570633
15 - 36	303207301, 303207311
16 - 38	570634
17 - 40.8	422639, 422639CR
22.5 - 54	302207302, 302207312
26 - 62	570638



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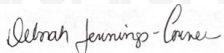
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30 - 72	302207303, 302207313
40 - 96	570839, 570839CR
53 - 127	570639, 570651
60 - 144	442640, 570840, 302207304, 302207314, 442640CR
70 - 168	442641, 442641CR
73.5 - 176	570640, 570652
75 - 180	302207305, 302207315
90 - 208	442642, 570641, 570653, 302207306, 442642CR
171.5 - 386	570586, 570654



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