

CERTIFICATE OF COMPLIANCE

Certificate Number EX5104
Report Reference EX-5104
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: Hygood
Burlingham House
Hewett Rd
Gapton Hall Ind Estate
Great Yarmouth NR31 0NN GB

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.

Engineered HFC-227ea Models 303.205.055, 056, 057, 058, 040, 041, 042, and 059 Clean Agent Extinguishing System Units utilizing DOT rated cylinders, stored pressure type, having nominal charging capacities of 8, 16, 32, 52, 106, 147, 180, and 343 L (17, 35, 70, 114, 233, 324, 396 and 756 lbs) of HFC-227ea Clean Agent, respectively. The units are super-pressurized to 25 bar (360 psig) with operating temperatures of 0°C to 54°C (32°F to 130°C). The units are designed for total flooding protection against Class A surface burning, Class B flammable liquid and 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 Engineered System Installation, Recharge and Maintenance Manual, p/n 14A-07H/CH Issue 3 dated 2013-03, supplemental Technical Bulletin for Cable Pneumatic Manual (CPM) Actuator, P/N 15527 dated 2012-03-21, Actuator Placement Indicator Switch Technical Bulletin p/n 16056A dated December 10, 2015, and the FM- 200® Engineered System Flow Calculation Software Versions HYGC 3.34b or TYCO4.00. Copies are available from the above Listee.

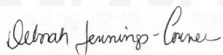
Engineered FM-200® Models 303.205.026, 015, 016, 017, 030, 018, 031, 032, 019, 020, 021, and 022 Clean Agent Extinguishing System Units utilizing DOT rated cylinders, stored pressure type, having nominal charging capacities of 4.5, 8, 16, 32, 40, 52, 67, 80, 106, 147, 180, and 343 L (9, 17, 35, 70, 88, 114, 148, 176, 233, 324, 396 and 756 lbs) of FM-200® Clean Agent, respectively.

Engineered Sapphire Models 303.207.010, 303.207.001, 303.207.002, 303.207.003, 303.207.004, 303.207.005, 303.207.006, 303.207.007 and 303.207.008 Clean Agent Extinguishing System Units utilizing DOT rated cylinders, stored pressure type, having nominal charging capacities of 11, 21, 42, 84, 137, 280, 388, 459 and 851 lb (9.6, 19.2, 38.4, 62.4, 127.2, 176.4, 208 and 386 kg) of 3MTM Novec™ 1230 Fire Protection Fluid (FK-5-1-12) extinguishing agent, respectively.

Engineered Sapphire Models 303.207.020, 303.207.021, 303.207.022, 303.207.023, 303.207.024 and 303.207.025 Clean Agent Extinguishing System Units utilizing TPED rated cylinders, stored pressure type, having nominal charging capacities of 21, 42, 84, 137, 280 and 388 lb (9.6, 19.2, 38.4, 62.4, 127.2, and 176.4 kg) of 3MTM Novec™ 1230 Fire Protection Fluid (FK-5-1-12) extinguishing agent, respectively.

The units are super-pressurized to 360 psig (25 bar) with operating temperatures of 32°F (0°C) to 130°F (54.4°C). The units are designed for total flooding protection against Class A surface burning, Class B flammable liquid and C fires occurring within an enclosure.

These system units are intended to be designed and installed in accordance with the Listee's Engineered System Installation, Recharge and Maintenance Manual, P/N 14A-11H dated 2010-08 (Issue 3), Supplemental Technical Bulletin for Cable Pneumatic Manual (CPM) Actuator, P/N 15527 dated 2012-03-21, Actuator Placement Indicator



Deborah Jennings-Conner, VP Regulatory Services

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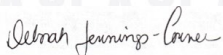
Switch Technical Bulletin p/n 16056A dated December 10, 2015, Electric Actuator p/n 304205030 in Bulletin 16284 dated April 24, 2019 and the Sapphire Engineered System Flow Calculation Software Versions HYG3.61b or TYCO 4.00.

Engineered Sapphire Models 303.207.010, 303.207.001, 303.207.002, 303.207.003, 303.207.004, 303.207.005, 303.207.006, 303.207.007 and 303.207.008 Clean Agent Extinguishing System Units utilizing DOT rated cylinders, stored pressure type, having nominal charging capacities of 11, 21, 42, 84, 137, 280, 388, 459 and 851 lb (9.6, 19.2, 38.4, 62.4, 127.2, 176.4, 208 and 386 kg) of FK-5-1-12 extinguishing agent, respectively.

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These system units are intended to be designed and installed in accordance with the Listee's Engineered System Installation, Recharge and Maintenance Manual, P/N 14A-53H dated August 17, 2022, Rev.00, and the Sapphire Engineered System Flow Calculation Software Versions TYCO 4.00. Copies are available from the above Listee.



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