

# CERTIFICATE OF CONFORMITY

## 1. FIRE PROTECTION EQUIPMENT

2. Certificate No: FM23FPUS0185
3. Equipment:  
(Type Reference and Name) Control Inert Inergen Clean Agent Fire Extinguishing Systems
4. Name of Listing Company: Fire Eater A/S
5. Address of Listing Company: Vølundsvej 17, 3400 Hillerød, Denmark
6. The examination and test results are recorded in confidential report number:

3039375 dated 24<sup>th</sup> May 2013

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

FM 5600:2023

8. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

9. Approval Guide Listing Category:

Clean Agent Fire Extinguishing Systems

### Certificate issued by:



J.E. Marquardt  
VP, Manager - Electrical Systems

5 December 2024

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

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**10. Description of Equipment:**

System Designation:	Control Inert Inergen Clean Agent Fire Extinguishing Systems
System Type:	Engineered
Agent Identification:	Inergen (Identified as IG-541 in NFPA 2001)
Available Agent Storage Pressures:	200 bar, 300 bar
Minimum and Maximum Agent Storage Temperatures:	60°F to 80°F (15°C to 27°C) for multiple hazard, unbalanced systems 32°F to 150°F (0°C to 65°C) for single hazard, unbalanced systems
Available Nozzle Types:	360°
Maximum Nozzle Area of Coverage:	24 ft by 24 ft (7.3 m by 7.3 m), 17 ft (5.2 m) maximum distance to farthest corner
Minimum and Maximum Nozzle Installation Height per Row:	0.3 ft to 15.4 ft (0.1 m to 4.7 m)
Minimum and Maximum Height of Protected Area per Nozzle Row:	1.0 ft to 15.4 ft (0.3 m to 4.7 m)
Minimum Design Concentration for Hazard Class:	Class A – 37.45% Class B – 41.55%
Design, Installation, Operation, and Maintenance Manual:	Fire Eater Control Inert Ci Manual for UL Listed, FM Approved Extinguishing System, P/N Ci Manual , Rev. 2024-11
Flow Calculation Software:	Fire Eater Inergen Management Tool (IMT) flow calculation program Version 2.2.0, utilizing Flow Sim Engine dated 2014-08-27 or Fire Eater Inergen Management Tool (IMT) flow calculation program 3.x.y (where x and y can be any number), utilizing Flow Sim Engine dated 2018-08-02
Limitations or Exceptions to the Approval:	Limitations as defined in the manual and software and listed above

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Approved Filling Facilities:	Air Products Turanka 94 62700 Brno Czech Republic
	Shanghai Leinuo Security Technology Co., Ltd Building 1, No. 919, Xin Kang Road Qing Pu District, Shanghai China
	PG Depot Decin (Air Products spol s.r.o.) J.S. Baara 2063/21 405 02 Decin Czech Republic

**11. Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

**12. Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

**13. Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
24 May 2013	Original Issue.
14 September 2023	<u>Supplement 1:</u> Report Reference: PR465951 dated 14 <sup>th</sup> September 2023. Description of the Change(s): Converted certificate format, added PG Depot Decin (Air Products spol s.r.o.) filling facility.
5 December 2024	<u>Supplement 2:</u> Report Reference: PR463044 dated 5 December 2024. Description of the Change(s): Addition of new components. Manual revised.

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