

# CERTIFICATO CERTIFICATE

(di conformità) / (of conformity)

Esame UE del Progetto

EU design examination

In accordo alla direttiva 2014/68/UE / according to directive 2014/68/EU

Certificato-Nr. / Certificate No.: H1 - 2021/L/1168

**Nome ed Indirizzo del Fabbricante** Firetrace Limited  
**Name and address of bearer/ manufacturer:** Unit 22, Knightsdale Road  
Ipswich, Suffolk IP1 4JJ, United Kingdom

Si certifica che l'esame UE del progetto di seguito indicato soddisfa i requisiti della direttiva 2014/68/UE  
We hereby certify that the EU design examination mentioned below fulfils the requirements of directive 2014/68/EU

## CE 2580

Verificato in accordo alla dir. 2014/68/UE

Tested according to dir. 2014/68/EU

Rapporto di prova Nr. / Test report No.:

Descrizione dell'Insieme:

Description of assembly :

Fascicolo Tecnico Nr.

Technical dossier No.

Categoria / category:

lì /Luogo / Date/ Place

**10/09/2021 Cerro Maggiore**

Data Revisione / Revision date

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Scadenza – expiring date

la stessa di – the same as **H1 - 2021/L/1169**  
ma non oltre – but not any longer than **09/09/2031**

**Esame UE del progetto (per Modulo H1)**

**EU design-examination (acc.to Module H1)**

**925/P/2021/L/1555** (Norma / Code BS EN 3 (parts 1 to 10);  
BS 5423)

**HIGH PRESSURE AUTOMATIC FIRE SUPPRESSION  
SYSTEM (Direct/Indirect/Bi-Directional)**

**High Pressure Technical File (see Annex A)**

(PSmax=190 barg; TS= -20/+60°C)

**IV - (see Annex A)**



**TÜV NORD Italia S.r.l.**  
Organismo di Certificazione

**Porelli, Ing. Stefano**

Organismo Notificato/ Notified Body, 2580

# Allegato A / Annex A

rev.0 10.09.2021

A / To

## Certificato-Nr. / Certificate No.: H1 - 2021/L/1168 rev.0

Si certifica che l'esame UE del progetto eseguito soddisfa i requisiti della direttiva 2014/68/UE per il seguente prodotto e alle seguenti condizioni:

We hereby certify that the EU design examination performed fulfils the requirements of directive 2014/68/EU for the following product and with the following conditions:

### - PRODOTTI RIFERITI AL CERTIFICATO / Products covered by this Certificate

NOME DEL PRODOTTO / Product Name	DESCRIZIONE DEL PRODOTTO / Product Description	CATEGORIA / Category	CODICI APPLICABILI / Applicable Standard
HIGH PRESSURE AUTOMATIC FIRE SUPPRESSION SYSTEM	High-pressure systems with automatic detection tubing which, when overheated (110 degrees centigrade) or touched by flame, ruptures and discharges the extinguishing medium which can be Carbon Dioxide or Nitrogen with or without powder suppressant. The High-pressure systems all fall within the following three (3) categories: <ul style="list-style-type: none"> <li>Direct Firetrace System: Discharges extinguishant through tube where rupture occurs.</li> <li>Indirect Firetrace System: Discharges extinguishant through pipe work and diffusers when tube ruptures.</li> <li>Bi-Directional Firetrace System: Discharges extinguishant through tube and discharge Pipe work and diffusers when tube ruptures.</li> </ul>	IV	BS EN 3 (Parts to 10); BS 5423

### - DATI DI PROGETTO / Design Data

PRESSIONE MASSIMA AMMISSIBILE (PS)/ Max. Allowable Pressure (PS)	MAX./min. TEMPERATURA AMMISSIBILE (TS) / Max./min. Allowable Temperature (TS)	FLUIDO / Fluid	GRUPPO FLUIDO / Fluid Group
190 barg	-20 to +60°C	Gas	2

### - APPLICAZIONI E LIMITAZIONI / Applications and Limitations

- The assemblies, covered by this certificate, are intended by the manufacturer to be evaluated under the conformity assessment evaluation Module H1, as per the Annex III, category IV of Pressure Equipment Directive 2014/68/EU.
- The table above shows the total range of application for the approved family of assemblies.
- This Certificate only relates to the directive described above. Other directives, if having requirements related to CE marking, might also apply.

### - DOCUMENTI VERIFICATI / Documents reviewed

DOCUMENTI/DISEGNI NO. / Document/Drawing No.	TITOLO / Title	REV. / Rev.	DATA / Date
-	High Pressure Technical File - Table of Contents	2	Sept. 2021
-	General description	2	Nov. 2018
-	Design Basis	2	Nov. 2018
-	Manufacturer Statement	-	08/07/2021
-	Design Conditions	2	Nov. 2017
-	Design Calculations	3	Nov. 2018
-	Cylinder and diptubes used	1	Nov. 2018
-	Confirmation of pressure bearing parts	4	Nov. 2017
-	Certificate of Particular Material Appraisal	1	Nov. 2018
-	Fluids and Gases used	1	Nov. 2017
-	Drawings used	0	Aug. 2017
B04420071	Manual actuator / B0435 with push button (also for FireDeTec)	a	11/05/2006
B04420112	Manuelle Auslösevorrichtung für FireDeTec ILP / IHP, vernickelt	a	06/02/2007
B04420113	Elektromagnetischer Aktuator mit integriertem End-of-Line-Adapter für FireDeTec	b	06/10/2008
B07020023	FireTrace IHP nickel plated (Indirect High Pressure Valve)	e	03/05/2005
B07020025	Nickel plated FireTrace IHP with pressure gauge at HP side and adapter & fitting at LP side	d	02/05/2005
B07030012	FireDeTec DHP nickel plated (Direct High Pressure) (Tube 4x6)	d	17/10/2006

TÜV NORD Italia S.r.l.  
Sede legale e operativa Cerro Maggiore  
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Phone: +39 0331 541488, Fax: +39 0331 478854 E-Mail: info@tuev-nord.it

Organismo Notificato per la direttiva sugli apparecchi a pressione (2014/68/UE)  
Notified Body for Pressure Equipment Directive (2014/68/EU)



PRD N° 224 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Il presente certificato può essere pubblicato solo in forma integrale.

Estratti o modifiche richiedono il previo consenso di TÜV NORD Italia S.r.l.

This Certificate may be issued only in integral form.

Extracts or alterations require the prior consent of TÜV NORD Italia S.r.l.

DOCUMENTI/DISEGNI NO. / Document/Drawing No.	TITOLO / Title	REV. / Rev.	DATA / Date
DR-FT0168FT	CO2 Direct/Indirect	A	21/06/2017
DR-FT0168FT/1	CO2 Bi-Directional	A	21/06/2017
DR-FT0256FT/Assembly	FT0256FT Assembly	C	28/03/2018
DR-FT0122/5	DIP TUBE IHP 5KG BENT	B	23/04/2018
DR-FT0122/9	DIP TUBE IHP 9KG BENT	B	23/04/2018
DR-FT0122/22	DIP TUBE IHP 22KG BENT	B	23/04/2018
DR-FT0122/45	DIP TUBE IHP 45KG BENT	B	23/04/2018
DR-FT0122/M	DIP TUBE IHP 9KG MEDIUM BENT	B	27/06/2018
DR-FT0122/TT	DIP TUBE IHP 9KG TALL THIN BENT	B	27/06/2018
13 052 191 8	Flaschenkörper 3L	-	07/07/2014
13 052 454 3	Flaschenkörper 15L	-	12/04/2017
13 052 155 7	Flaschenkörper 7,5L	-	12/01/2009
13 052 325 3	Flaschenkörper 13,4L	-	18/05/2010
13 052 581 7	Flaschenkörper 67,5L	-	15/12/2009
13 052 132 3	Flaschenkörper 35L	-	25/09/2009
950647	Transport BRKT (5kg CO2)	1	29/06/1998
951988	2kg CO2 WIRE BRACKET	1	31/01/2006
13 052 161 2	Flaschenkörper 13,4L	-	17/12/2008
-	Solid Cone Spray - TYPE BN	-	-
11/LU/2470-13-REV.0	Type Approval Certificate - Valves (NoBo 0029 - APRAGAZ VZW/ASBL)	0	01/03/2021
0090 / EN51 / 12	Type Approval Certificate - EN51 (NoBo 0090 - TÜV Thüringen) - Vmax=3L	0	10/12/2014
0090 / EN49 / 12	Type Approval Certificate - EN49 (NoBo 0090 - TÜV Thüringen) - Vmax=15L	0	10/12/2014
0090 / EN136 / 12	Type Approval Certificate - EN136 (NoBo 0090 - TÜV Thüringen) - Vmax=30L	0	10/12/2014
0090 / EN154 / 12	Type Approval Certificate - EN154 (NoBo 0090 - TÜV Thüringen) - Vmax=22L	0	26/04/2016
0090 / EN 48 / 12	Type Approval Certificate - EN48 (NoBo 0090 - TÜV Thüringen) - Vmax=50L	0	10/12/2014
0090 / EN122 / 12	Type Approval Certificate - EN122 (NoBo 0090 - TÜV Thüringen) - Vmax=80L	0	10/12/2014
-	Hazard Analysis	2	Jun. 2021
-	Direct High Pressure Layout	-	-
-	Indirect High-Pressure Layout	-	-
-	Firetrace® "Indirect" CO2 Automatic Fixed Fire Suppression Systems For CNC/EDM Applications	5	Nov. 2017
-	Firetrace® "Indirect" N2 Automatic Fixed Fire Suppression Systems	1	Nov. 2019

#### - VALUTAZIONE PARTICOLARE DEI MATERIALI / Particular Material Appraisal (PMA)

Materials for pressure containing parts, where applicable, have been subject to Particular Material Appraisal as required by PED annex 1 sec. 4.2b. Documentation of materials shall comply with PED annex 1 sec 4.3.

#### - TERMINI E CONDIZIONI / Terms and conditions

The certificate is subject to the following terms and conditions:

- The Certificate is only valid for the Pressure Equipment Directive 2014/68/EU purpose
- The Certificate is only valid for the product(s) listed above
- The Certificate is concerned with the design of the product only

The following may render this Certificate invalid:

- Changes in the design or construction of the product(s)
- Changes or amendments to the referenced directive
- Changes or amendments in the standard(s) which form the basis for documenting compliance with the essential requirements of the directive(s)

#### - DICHIARAZIONE DI CONFORMITA' E MARCABILITA' DEL PRODOTTO / Conformity declaration and marking of product

This Certificate does not give the Manufacturer the right to CE mark and put on the market the listed product(s). The product(s) must be manufactured under an approved Full Product Quality Management System according to Module H1, in order to allow the Manufacturer to draw up an EU Declaration of Conformity and legally affix the CE mark followed by the Notified Body identification number of TÜV NORD Italia (2580).

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