

NAF® S Fire Suppression Systems



SAFETY HI-TECH
EUROPE

GIULIANO INDOVINO

**MANAGING DIRECTOR &
SALES**



- ▶ Founded in 1990
- ▶ Production plant in Avezzano, 120 km east of Rome



our 5.500 m² plant



our office

- ▶ Production of clean agent fire suppression systems
- ▶ R&D
- ▶ Testing facilities

*Our mission? ... the production of fire protection solutions
meeting the highest possible level of safety and quality!*



Quality management systems:

- ▶ ISO 9001
- ▶ LPCB UK FPS



Certified to EN 12094-4, -8, -13
LPCB Ref. No. 969a



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

DQS Holding GmbH has issued an IQNet recognized certificate that the organization

SAFETY HI-TECH S.r.l.

Production Site:
Via Cavour, 96
67051 Avezzano (AQ)
Italy

Registered Office:
Via Bellini, 22
00198 Roma
Italy

Office:
Via Degli Olmetti, 39/E
00060 Formello (RM)
Italy

has implemented and maintains a **Quality Management System**.

Scope:
Design, manufacture and sales of fire extinguishing agents and of extinguishing systems.
Management of weighing process.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2015

Issued on: 2018-10-08
Expires on: 2021-10-07

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document.

Registration number: DE-452235 QM15



Alex Stoichitoiu
Alex Stoichitoiu
President of IQNet

Michael Drechsel
Michael Drechsel
Managing Director of
DQS Holding GmbH



IQNet Partners*

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany FCAV Brazil
FONDONORMA Venezuela ICONTEG Colombia Inspecta Serfipoint Oy Finland INTECO Costa Rica
IRAM Argentina JQA Japan KPC Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland
NYCE-SIGE Mexico PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

LPCB®

www.redbooklive.com

Certificate of Product Approval

Certificate Number: 969a

Issue: 04

Safety Hi-Tech Srl

Via Cavour
96 - 67051 Avezzano (AQ)
Italy

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) as detailed below.

Products

NAF S 125 & NAF S 227 Fire Fighting
Components
(refer to attached Appendix for details)

Standards

EN 12094-4:2004
Fixed firefighting systems. Components for gas
extinguishing systems. Requirements and test
methods for container valve assemblies and their
actuators
EN 12094-8:2006
Components for gas extinguishing systems.
Requirements and test methods for connectors
EN 12094-13:2003
Components for gas extinguishing systems.
Requirements and test methods for check valves
and non-return valves

This certificate and appendix is maintained and held in force through regular surveillance activities

RE Brown
Signed for LPCB

Robert Brown
Verifier

24 November 2016
Date of Issue

01 July 2010
Date of First Issue



This certificate and appendix remain the property of BRE Global Ltd and is issued
subject to terms and conditions (for details visit www.redbooklive.com/terms).
To check the validity of this certificate and appendix please visit
www.redbooklive.com/check, scan the QR tag or contact us.
LPCB is part of BRE Global Ltd, Garston, Watford, WD25 90X
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@brenglobal.com



Clean agent sampling



Clean agent quality testing



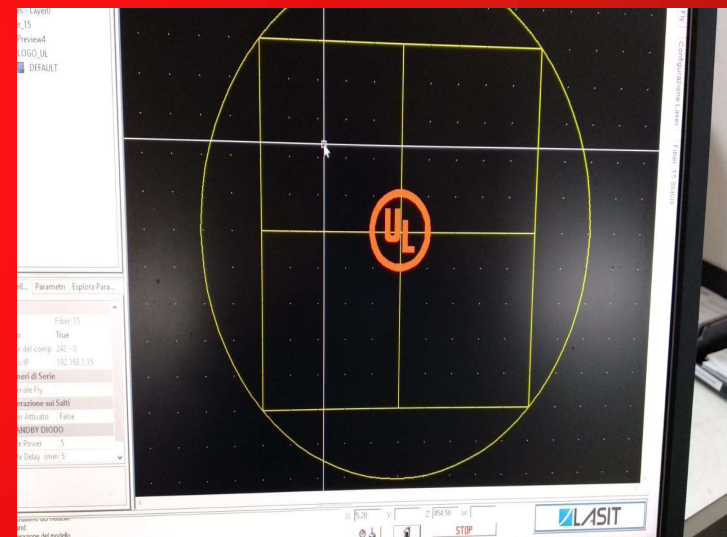
Pressure and dimensional quality control testing of all system components



Thread ring gauge testing of all system components



Marking of all components as per UL, LPCB/CE and DNV requirements



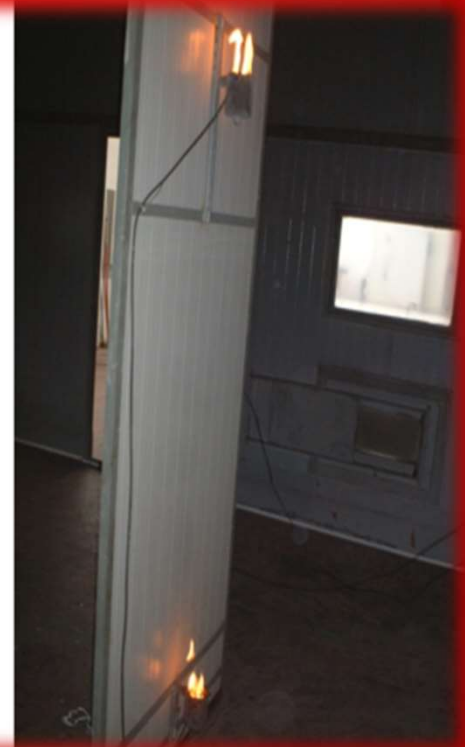
Assembling systems



Filling and leak testing system cylinders



Nozzle area coverage testing as per UL 2166



Extinguishing testing on class a and b fuels as per
UL 2166



wood crib



heptane pan



polymeric

Testing the accuracy of flow calculation programs as
per UL 2166



The fire protection solutions



Safety Hi-Tech is an active member of:

- ▶ **NFPA 2001:** Technical Committee Member since 1993
- ▶ **UNI:** Member of Working Group on Special Fire Extinguishing Agents
- ▶ **CEN:** Italian Expert at Task Groups of CEN/TC 191 WG/6 – Technical Committee 191 “Fixed firefighting systems”/Working Group 6 “Gas extinguishing systems and components”
- ▶ **ISO:** Italian Expert at Working Groups of ISO/TC 21/SC 8 - Technical Committee 21 “Equipment for fire protection and firefighting”/Subcommittee 8 “Gaseous and firefighting systems using gas”
- ▶ **HTOC:** Member of Halons Technical Options Committee (HTOC), one of the specific Technical Options Committees of TEAP (Technology and Economic Assessment Panel).

NAF® S 1230, NAF® S 125 and NAF® S 227 fire suppressants:

- ▶ UL Recognized (UR)
- ▶ US EPA Approved





Why do we use NAF S Agents?

.... because they are:

- ✓ 100% volatile
- ✓ non-conductive
- ✓ safe for use in manned areas
- ✓ year-round protection

.... Where?



Computer Rooms



Control Rooms



Telecommunication
Facilities



Clean Rooms



Archives



Museums



Laboratories



Machinery Spaces



Physical properties

Agent	Molecular weight	Boiling point (°C)	Vapor pressure @ 20°C (bar)
Halon 1301	148,93	-58,0	13,72
NAF S 125	120,02	-48,5	13,71
NAF S 227	170,04	-16,4	4,57
NAF S 1230	316,04	+49,2	0,326

Design concentration % v/v

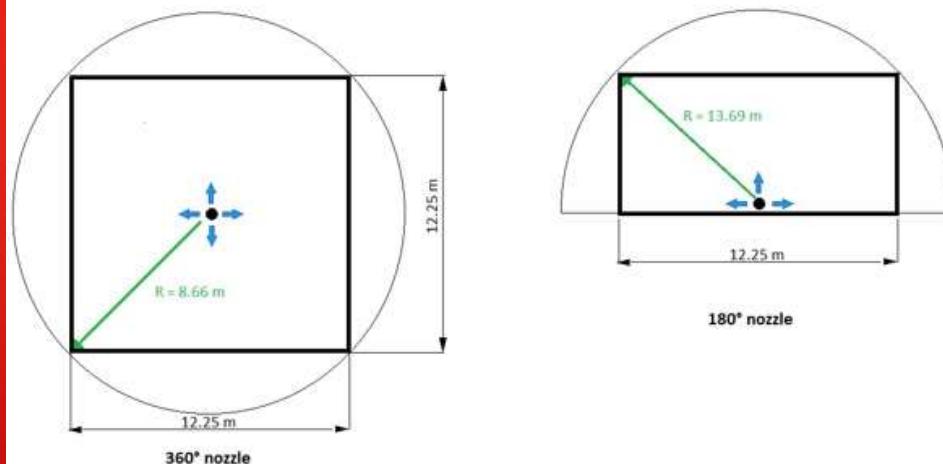
CLASS FIRE	DC (NFPA)					
	NAF S1230		NAF S 125		NAF S 227	
	%	kg/m ³	%	kg/m ³	%	kg/m ³
A	4,50	0,655	8,7	0,484	6,6	0,516
B	5,85	0,865	11,3	0,648	8,6	0,687
C	4,50	0,655	9,0	0,502	7,0	0,550

Nozzle area coverage

Discharge Nozzles

	360°	180°
Available size	½", ¾", 1", 1 ¼", 1 ½", 2" (15, 20, 25, 32, 40, 50 mm)	
Orifice Ø	4, 5, 6.5, 9, 10, 13 mm	
Orifice no.	24	18
Max Area Coverage	12.25m x 12.25m = 150 m ²	
Max Coverage Height	4.115 m	
Min Coverage Height	0.40 m	
Max distance below Ceiling	0.3	0.3
Max distance away from Sidewall	-	0.3
Min Design Nozzle Pressure	5.65 bar	

Nozzle Area Coverage

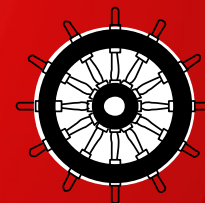


Approvals:

- ▶ UL Listed (ref. standard: NFPA 2001/UL 2166)
- ▶ CE marked by LPCB-UK (ref. Standard: EN 12094)
- ▶ DNV approved for marine uses (ref. standard: IMO MSC Circ. 848 and MSC.1 Circ.1 267)



Certified to EN 12094-4, -8, -13
LPCB Ref. No. 969a



0575
MED-B-5573 MED-D-1258

System components:

- ▶ 4 discharge valves
- ▶ hoses and non-return valves
- ▶ manual and electric actuators
- ▶ pneumatic connections for multiple cylinders
- ▶ nozzles
- ▶ seamless and welded cylinders from 5 to 240 LT



Basic Cylinder Assemblies (5 to 240 LT)

All **BCAs** include seamless and welded cylinder, valve, flange, dip tube and a set of labels. These unit assemblies combined with accessories and pneumatic components can be used for modular (one cylinder) or centralized (multiple cylinder) systems.



PRODUCTS – Total Flooding Systems

Accessories:

- ▶ electrical and manual actuators
- ▶ hoses
- ▶ non-return valves
- ▶ nozzles (180° and 360° from ½" to 2")
- ▶ pneumatic items for multiple cylinder systems





Range of seamless cylinders - 42 bar wp

Capacity (LT)	NAF S 125		NAF S 227		NAF S 1230	
	min. (kg)	max. (kg)	min. (kg)	max. (kg)	min. (kg)	max. (kg)
5,0	2,5	4,0	2,5	5,5	1,5	5,5
13,4	6,5	12,0	6,5	15,0	3,5	15,0
26,8	13,0	24,5	13,0	30,5	6,5	30,0
40,2	19,5	37,0	19,5	46,0	10,0	45,0
67,5	32,5	62,0	32,5	77,0	16,5	75,5
75,0	36,5	69,5	36,5	86,0	18,0	84,0
100,0	48,5	93,0	48,5	115,0	24,0	112,0
120,0	58,0	111,5	58,0	138,0	29,0	134,5



Range of welded cylinders - 25 bar wp

Capacity (LT)	NAF S 125		NAF S 227		NAF S 1230	
	min. (kg)	max. (kg)	min. (kg)	max. (kg)	min. (kg)	max. (kg)
175,0	84,5	162,5	84,5	201,0	42,0	196,0
240,0	115,5	223,0	115,5	276,0	58,0	269,0

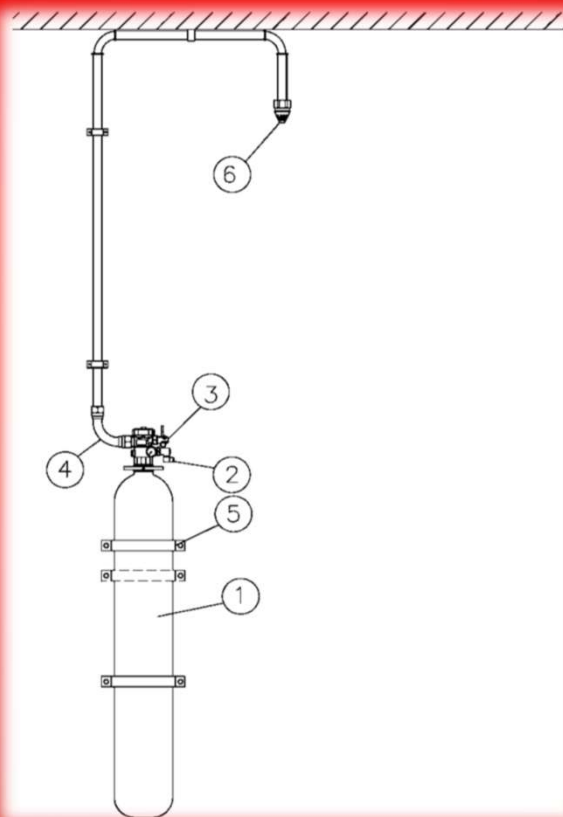


Range of seamless cylinders - 60 bar wp

Capacity (LT)	NAF S 1230	
	min. (kg)	max. (kg)
140,0	34,0	156,5
160,0	38,5	179,0
180,0	43,5	201,5

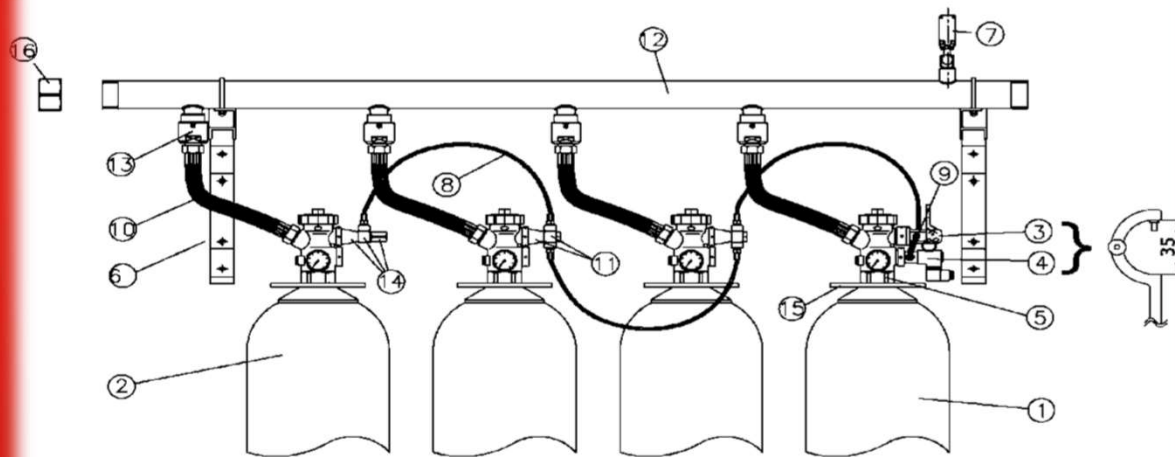
PRODUCTS – Total Flooding Systems

42 bar single cylinder
system



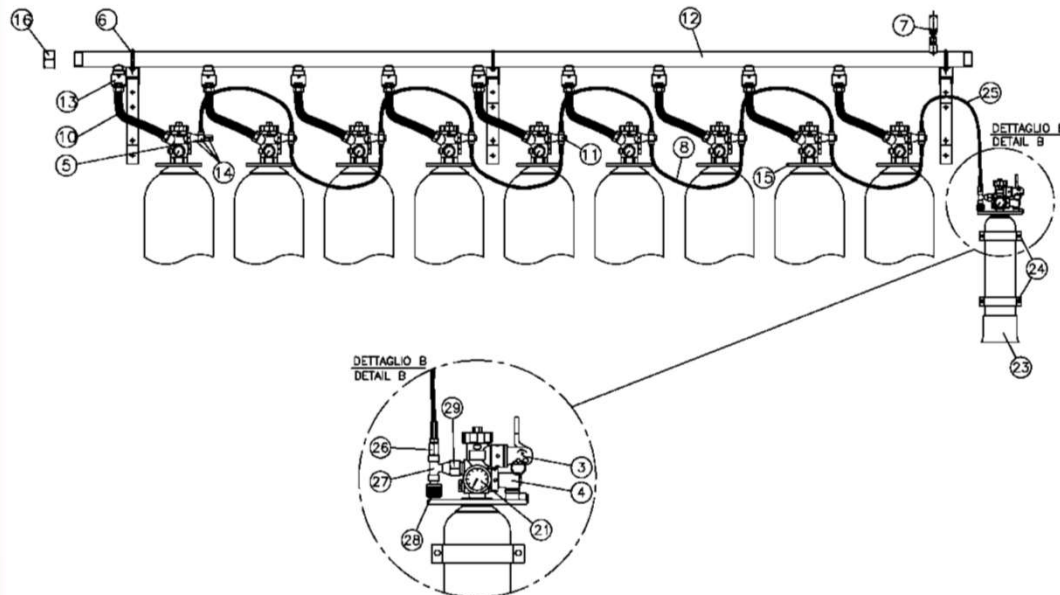
PRODUCTS – Total Flooding Systems

42 bar multiple cylinder system



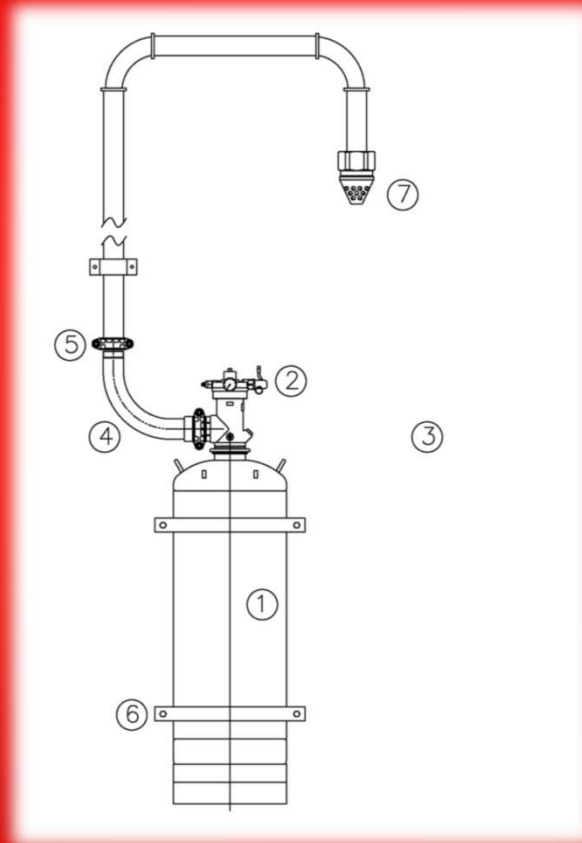
PRODUCTS – Total Flooding Systems

42 bar multiple cylinder system with more than 8 cylinders



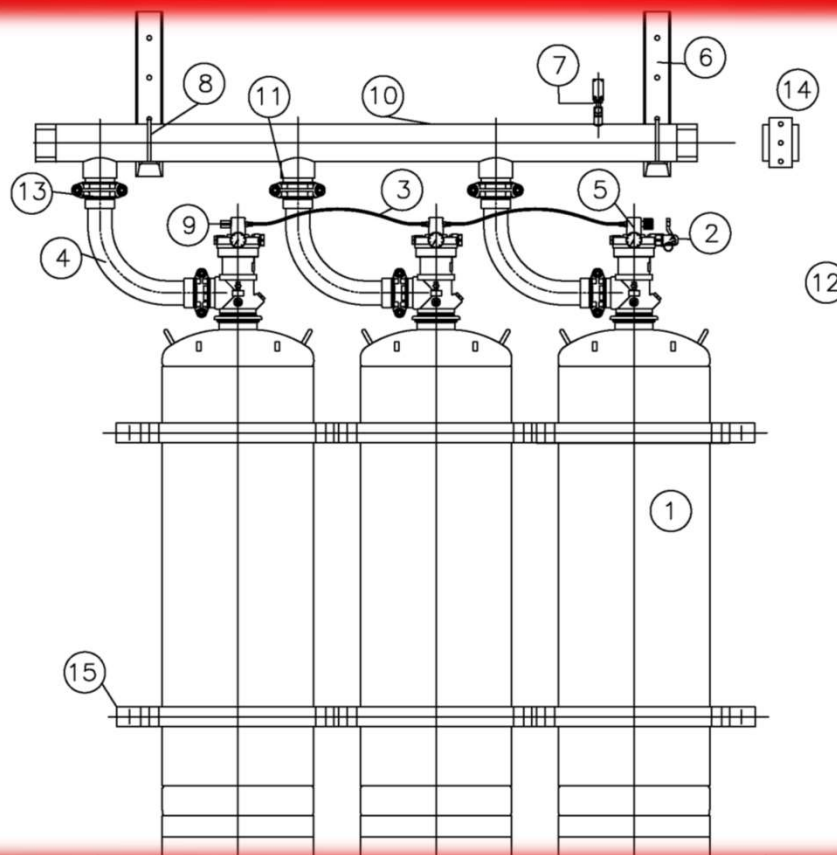
PRODUCTS – Total Flooding Systems

25 bar single cylinder system



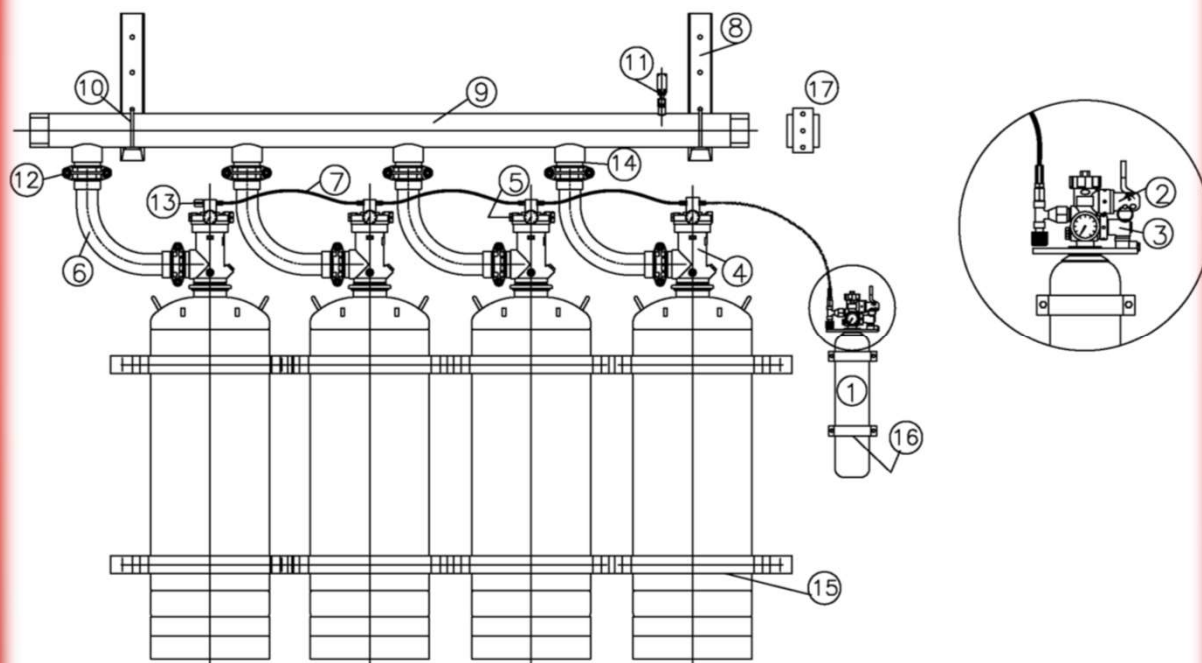
PRODUCTS – Total Flooding Systems

25 bar multiple cylinder system




PRODUCTS – Total Flooding Systems

25 bar multiple cylinder systems with more than 3 cylinders



PRODUCTS – Total Flooding Systems

UL online certification
directory

 **ONLINE CERTIFICATIONS DIRECTORY**

GAQF.EX6264
Clean Agent Extinguishing System Units

[Page Bottom](#)

Clean Agent Extinguishing System Units

[See General Information for Clean Agent Extinguishing System Units](#)

SAFETY HI-TECH SRL EX6264
VIA CAVOUR 96
67051 AVEZZANO, AQ ITALY

ENGINEERED UNITS, NAF S 125 (HFC-125 with limonene additive, 0.15% by weight) Clean Agent Extinguishing System Units, stored pressure type, having nominal charging capacities of 5, 13.4, 26.8, 40.2, 67.5, 75, 100 and 120 L. The units are super pressurized to 42 bar at 21°C with operating temperatures of -18 °C to +50 °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 SHM125227 rev. 00 dated July 2013 and design manual P/N SHDM125 dated February 2013. These installations require the use of the Listee's flow calculation software NAF S 125 Flow Calculation Program Version SHT 3.72 dated May 2005 floppy disc or CD accessed through Safety Hi-Tech, User's Manual SHT Flowcalc-NAF S 125. Copies are available from the above Listee.

AGENT STORAGE CONTAINER ASSEMBLY

Weight of Agent (kg)	Part No.
2.5-4.0	**70025410
6.5-12.5	**70025409
13.0-24.5	**70025408
19.5-37.0	**70025407
32.5-62.0	**70025412
36.0-70.5	**70025405
48.5-93.0	**70025404
58.0-111.5	**70025403


** Note that the part numbers shown may have a 2-digit alphanumeric prefix

ENGINEERED UNITS, NAF S 125 (HFC-125 with limonene additive, 0.15% by weight) Clean Agent Extinguishing System Units, stored pressure type, having nominal charging capacities of 142, 175 and 240 L. The units are super pressurized to 25 bar at 21°C with operating temperatures of -18 °C to +50 °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 SHM125227 rev. 00 dated July 2013 and design manual P/N SHDM125 dated February 2013. These installations require the use of the Listee's flow calculation software NAF S 125 Flow Calculation Program Version SHT 3.72 dated May 2005 floppy disc or CD accessed through Safety Hi-Tech, User's Manual SHT Flowcalc-NAF S 125. Copies are available from the above Listee.

PRODUCTS – Total Flooding Systems

Loss Prevention Certification Board



This is to certify

Safety Hi-Tech srl
Via Cavour, 96-67051 Avezano (AQ), Italy

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

NAF S 125 & NAF S 227 Fire Fighting Components
(refer to attached Appendix for details)

which have complied with schedules of requirements based on parts of the following:

EN12094 – Fixed firefighting systems – components for gas extinguishing systems


EN 12094 - Part 4: Requirements and test methods for container valve assemblies and their actuators
EN 12094 - Part 8: Requirements and test methods for connectors
EN 12094 - Part 13: Requirements and test methods for check valves and non-return valves

Certificate No. 969a Issue No. 02


Date of Issue 04 May 2011

This certificate is valid until withdrawn by LPCB.
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Signed on behalf of LPCB




M A Chaplin



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Fax +44 (0)1923 964803 www.RedBookLive.com
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Loss Prevention Certification Board



APPENDIX TO CERTIFICATE NO. 969a

Safety Hi-Tech srl

NAF S 125 & NAF S 227 Fixed Gas System Components

- This range of equipment is suitable for storage from -20°C to 50°C (NAF S 125) or 0°C to 50°C (NAF S 227)
- This range of equipment is approved for use in conjunction with Safety Hi-Tech Design Manuals (PNA SH2M0408 & SH2M0227EN, and Installation, Maintenance and User Manual P/N SH2MANV05L, rev01)
- NAF S 125 & NAF S 227 are supplied in containers at 42 bar at 21°C

NAF S 125 & NAF S 227 Container valves

Product Name	Description	Max. Working Pressure, bar	LPCB Ref. No.
SH20025128	SHT V20-00 UL	72	969a/1
SH20025146	SHT V25-00 UL	72	
SH20025160	SHT V40-00 UL	72	
SH20012128	SHT V20-N2	110	

NAF S 125 & NAF S 227 Actuators

Product Name	Description	LPCB Ref. No.
SH11009401	Manual actuator	969a/2
SH10009401	2 way high pressure cone actuator	
SH21009401	Solenoid actuator	
SH11009402	Solenoid actuator 1/4" outlet	
SH11009402	Manual / pneumatic release	

NAF S 125 & NAF S 227 Discharge connectors

Product Name	Description	Max. Working Pressure, bar	LPCB Ref. No.
SH30009000	Flex hose R1, 1" - 320mm	89	969a/3
SH3002140	Flex hose R2, 1" - 400mm	185	
SH30009070	Flex hose R2, 1/4" - 400mm	240	
SH30003260	Flex hose R2, 1/4" - 160mm, teflon	132	
SH30022001	Flex hose R2, 1/4" - 700mm, teflon	132	
SH30009014	Flex hose R2, 1/4" - 500mm, teflon	132	
SH30009080	Rigid hose, HG-MF	132	

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Date of Issue 04 May 2011

Issue No. 02

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Loss Prevention Certification Board



APPENDIX TO CERTIFICATE NO. 969a

Safety Hi-Tech srl

Product Name	Description	Max. Working Pressure, bar	LPCB Ref. No.
SH30008000	Rigid hose, HG-HG	132	

NAF S 125 & NAF S 227 Check Valves

Product Name	Description	Max. Working Pressure, bar	LPCB Ref. No.
SH20000090	1" check valve	72	969a/4
SH20000800	2" check valve	72	

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Signed on behalf of LPCB

Page 3 of 3

Date of Issue 04 May 2011

Issue No. 02

M A Chaplin

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PRODUCTS – Total Flooding Systems

DNV GL

Certificate No:
MEDB0000398

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:
That the Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms
 with type designation(s)
NAF S 227 Fire Extinguishing System

Issued to
SAFETY HI-TECH SRL
Formello RM, Italy


is found to comply with the requirements in the following Regulations/Standards:
 Regulation (EU) 2017/306,
 item No. MED/3.4S, SOLAS 74 as amended Regulation II-2/10 & X/3, IMO MSC/Circ. 848,
 IMO MSC.1/Circ.1313, IMO MSC.1/Circ.1316, FSS Code 5 and 2000 HSC Code 7


Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-11-27**.
 Issued at **Høvik** on **2017-11-28**

DNV GL local station:
Naples

Approval Engineer:
Synneve Eri



 Notified Body
 No.: **0575**


 for DNV GL AS
to grant type approval and
 to issue EC type approval certificates
 on behalf of
Vidar Dolonen
 Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex 8 of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.


 Form code: MED 201.NOR

Revision: 2017-07

www.dnvgl.com

Page 1 of 3

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UL VALIDATED DESIGN PROGRAMS

sht 4,00 flow calculation program



Safety Hi-Tech Flow Calculation Software v4.00 (NAF S 227)
UL: EX6264

File Name: 140374.2.FC4

Consolidated Report

Customer Information

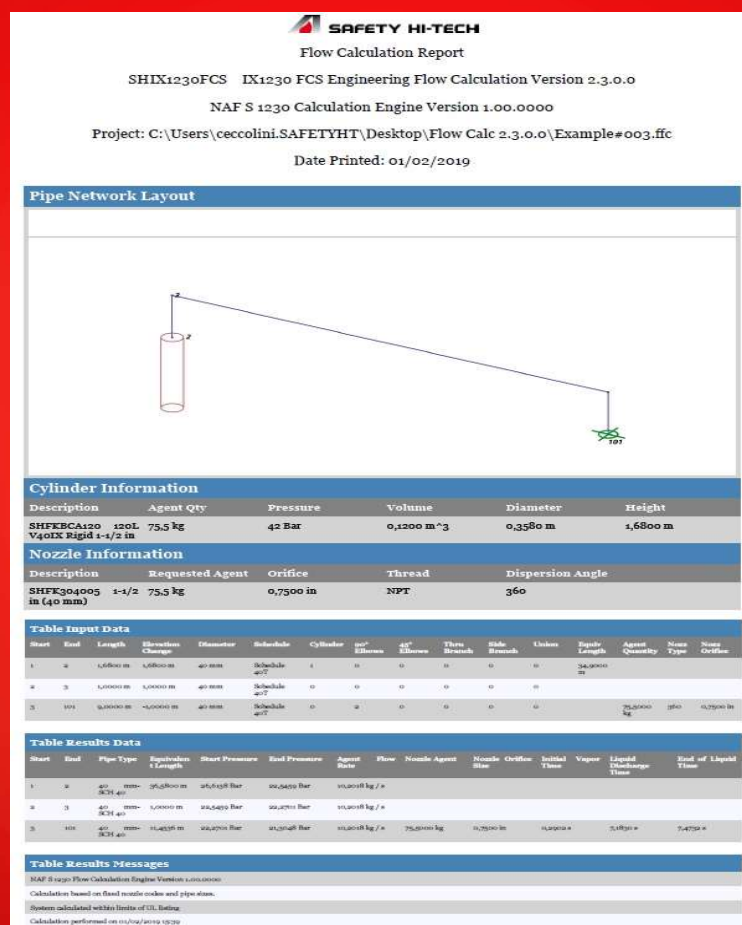
Company Name: Formula Techniki
Address:

Phone:
Contact:
Title:

Project Data

Project Name: Book shelves
Designer:
Number: 140374.2
Account:
Location:
Description:

UL VALIDATED DESIGN PROGRAMS



UL REVIEWED MANUALS

NAF S 125® Engineered Systems Design Manual



NAF S 125® Engineered Systems Design Manual

Author	Approved by	Rev. Date
Giuliano Indovino	Maurizio Barbuzzi	February 2014

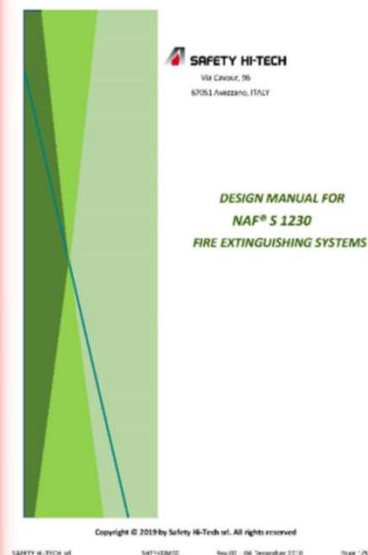


NAF S 227® Engineered Systems Design Manual

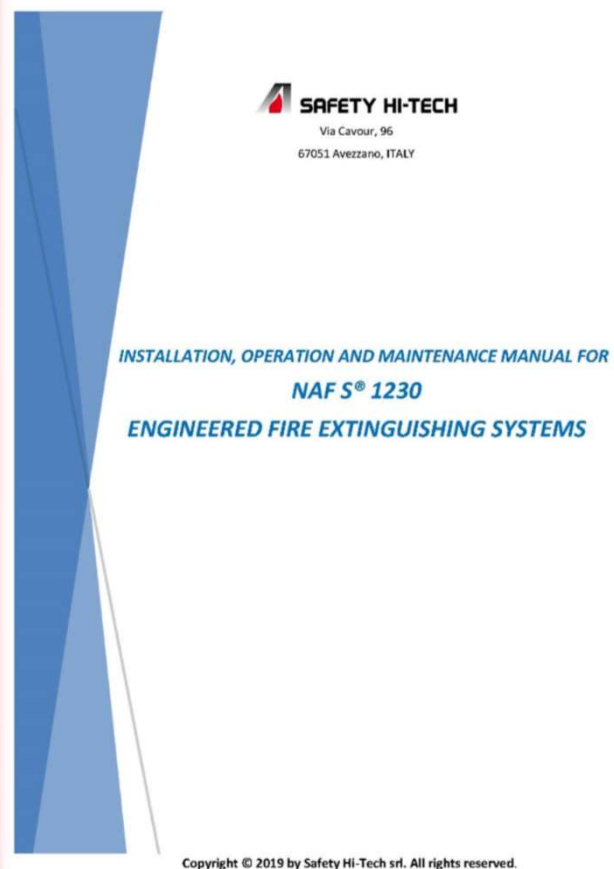


NAF S 227® Engineered Systems Design Manual

Author	Approved by	Rev. Date
Giuliano Indovino	Maurizio Barbuzzi	February 2014



UL REVIEWED MANUALS



UL 2166

- ✓ Agent testing – determines the extinguishing concentrations.
- ✓ Nozzle area coverage – determines the maximum coverage of nozzles, the minimum average nozzle pressure and the minimum working temperature of the system.
- ✓ Validation of flow calculation method – validates the accuracy of the flow calculation program, which is one of the most critical aspects of systems design.
- ✓ System component testing – tests the reliability of each component (valves, hoses, cylinders, check valves, actuators, nozzles, etc.).
- ✓ Agent component recognition – confirms the quality and origin of the extinguishing agent.
- ✓ Review of manuals – UL reviews the information and data contained in the design and installation manuals to make that systems are properly designed and installed.

UL AML



File EX6264 Vol 3 Issued: 2005-07-22
Revised: 2011-03-07

FOLLOW-UP SERVICE PROCEDURE (TYPE B)

CLEAN AGENT EXTINGUISHING SYSTEM UNITS (GAGP)

Complementary Product Category
CLEAN AGENT EXTINGUISHING SYSTEM UNITS
(GAGPC)

Manufacturer: SRR ADDENDUM FOR MANUFACTURING LOCATIONS

Applicant: SAFETY HI-TECH SRL
(122335-002) VIA CAVOUR 36
67051 AVEZZANO AQ ITALY

Listee: SAME AS APPLICANT
(122335-002)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc. (UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. (UL) or any authorized licensee of UL, upon request.

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Underwriters Laboratories Inc.



Stephen Henson
Senior Vice President
Global Follow-Up Service Operations



William R. Carney
Director
North American Certification Program

File EX6264 Vol 3 Addendum To Page 1 Issued: 2005-07-22
Authorisation Page Revised: 2013-04-26

LOCATION

(100528-849) 1873056 (Party Site)
EVERSAFE EXTINGUISHER SDN BHD
LOT 878
JALAN SUBANG 9
TAMAN PERINDUSTRIAN SUBANG
DARUL EHSAN
47500 SUBANG JAYA SELANGOR MALAYSIA
Factory ID: EE
UL Contracting Party for above site is: UL AG

(100549-659) 2364917 (Party Site)
AL ARABIA SAFETY & SECURITY L L C
JUMA AL-MAJID WAREHOUSES
AL KHABEESI AREA
DEIRA
DUBAI UNITED ARAB EMIRATES
AL ARABIA
Factory ID: ALARABIA
UL Contracting Party for above site is: UL AG

(100561-616) 2605170 (Party Site)
ARABIAN CONSTRUCTION CO W L L
ST 8/12
SHUWAIKH INDUSTRIAL BLK 68
PO BOX 176
13002 SAFAT KUWAIT
Factory ID: ACC
UL Contracting Party for above site is: UL AG

(100564-746) 2623119 (Party Site)
BAVARIA EGYPT S A E
CENTRAL MGT BLK 109
GISR EL SUEZ ST
HELIOPOLIS INDUSTRIAL
CAIRO EGYPT
Factory ID: Bavaria
UL Contracting Party for above site is: UL AG

THANK YOU!

WWW.SAFETYHITECH.COM

GIU.INDOVINO@SAFETYHITECH.COM

