



Rasika International

A RAILWAY SPECIALISED PRODUCT MANUFACTURING COMPANY



CONTACT US

Rasika International Rail Pvt. Ltd.,

Corporate Office:

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ABOUT US

WHO WE ARE

Rasika International Rail Private Limited is a leading provider of advanced Fire Safety Solutions and Technology. We started our journey in 2016 as a proprietorship concern supplying various products to Indian Railways. In 2022, we became a private limited company and in line with our mission and commitment to society, introduced innovative and latest technologies in fire safety with an aim to providing reliable, efficient, and cost-effective Solutions for Fire Safety.

We offer a wide range of Fire Safety Solutions and Technologies, including Automatic and Manual Devices, to meet the needs of households, schools, colleges, offices, businesses, government offices, banks & financial sector, malls, educational institutions, healthcare sector including pharmaceuticals, transport and all types of industries in government & private sector, etc.

Our team of experts has extensive experience in the Fire Safety Industry and is dedicated to ensuring the highest quality products and services for our customers. Rasika International is a Startup registered under Startup India Scheme, MSME, NSIC, GeM and ISO 9001:2015 certified Company. At Rasika International, we take pride in our innovative and customer-tailored solutions. Our experts work closely with clients to understand their specific needs and develop achievable and measurable milestones for fire safety implementation. With a strong focus on customer safety and product quality, we are committed to providing the best fire safety products and services to all our clients.

ABOUT US

OUR MISSION

Our mission is to protect the lives and property of every person from the threat of fire. We firmly believe that prevention is crucial, and all our products are designed with this principle in mind. Since then, we have strived to be at the forefront of fire protection, continuously pushing boundaries to deliver cutting-edge technology & solutions. Our team of experts work tirelessly not only to meet industry standards, but also to surpass them, ensuring that our customers receive the highest level of fire safety products.

We, at Rasika International, believe that we have a responsibility towards our customers and the nation to keep addressing the needs of our times and strive to transform as many lives as possible.

OUR VISION

Fire-Safe Environment for all living things, especially human beings and their invaluable properties.

ABOUT US

MANAGEMENT

Rasika International is managed by a team of highly experienced and competent professionals headed by Satish Gupta, Managing Director & CEO who is a Mechanical Engineer by qualification with an MBA from a reputed institute. He has more than 24 years of industry experience in senior management positions especially in the field of marketing. He is a visionary and experiencing the ever-increasing hazards of fire disasters in the country which destroys lives and properties every year, decided to address the occurrence of such catastrophic incidents in future. With an aim to provide a safe environment to present and future generations, he entered into the fire protection technology business and towards this end, he partnered with a few world-renowned manufacturers of fire safety solutions and technology. For day to day operations, he is assisted by a team of competent professionals under the guidance and able leadership of Rakesh Dixit, Executive Director.

OUR TEAM



SATISH GUPTA
MD & CEO



RAKESH DIXIT
Executive Director



ANUJ SAXENA
Legal Advisor



ANKUR GOEL
Advisor Finance &
Taxation



VIKAS MANRAL
Advisor Defence &
Aerospace



RAVI KUMAR
DGM – Operations,
Planning & Sourcing



NAND KISHORE
Head – Production
& Technology



RAJARAM THAKUR
Head - Marketing & Services
(Railways & Metros)



KAILASH SINGH
BDM – PSUs, Govt. &
Pvt Sector Business



BHARAT BHUSHAN
Head - Commercial



R KRISHNAN
Head – Legal &
Corporate Communications



DHIRENDRA YADAV
Head – Services



MOHIT GUPTA
Head – HR & Admin.

TEAM PROFILE

Satish Gupta, Managing Director & CEO:

Satish Gupta is a Mechanical Engineer with an MBA from a reputed institute. He has more than 24 years of industry experience in various senior management positions especially in the field of marketing.

Raakesh Dikshit, Executive Director:

Raakesh Dixit is an FMS Delhi Alumnus with a Project Management Degree from SP Jain College. He was South Asia Head of KEC International and was also CEO of a Steel Company.

Anuj Saxena, Legal Advisor:

Anuj Saxena is a qualified legal professional with more than 20 years of experience and practicing in High Court of Delhi and Supreme Court of India. He is renowned legal counsel of Hon'ble Supreme Court of India and a seasoned lawyer.

Ankur Goel, Advisor Finance & Taxation:

Ankur is a Chartered Accountant from Institute of Chartered Accountants of India. He has more than 9 years of extensive experience in audit and taxation with rich blend of working with domestic and MNC companies. He has handled direct and indirect taxes of clients across industries such as manufacturing, banking and financial services.

Vikas Manral, Advisor Defence & Aerospace:

Vikas Manral is a B.Tech with PGDBM from XLRI and PGDBM from The Wharton School of Business, Philadelphia. He has vast experience in the fields of marketing and management.

Ravi Kumar, DGM – Operations, Planning & Sourcing:

Ravi Kumar is a Post Graduate with an MBA in Sales & Marketing. He has more than 17 years of experience in planning, operations, logistics and sourcing. Prior to joining us, he worked with a holiday company as also with banking and insurance sectors. He has been successful in designing a fool-proof system for efficient running of our operations and also in all facets of planning, product sourcing and logistics.

Nand Kishore, Head Production & Technology:

Nand Kishore is an Electronics Engineer with more than 20 years of experience in various fields like R&D and product development. Before joining us, he worked with reputed companies like PPS International and Control & Switchgear as R&D and Senior Engineer. He was instrumental in setting up our production facilities, design and development of various products and technology with precision and quality.

TEAM PROFILE

Rajaram Thakur, Head Marketing & Services (Railways & Metros):

Rajaram is an Electrical Engineer with more than 12 years of experience in sales, marketing and service. He joined us in 2016 with our parent company and led the sales and service force since then. He was instrumental in marketing of our various products to railways and metros from inception and helped in carving a space for our products especially in Eastern and Southern regions.

Kailash Singh, BDM PSUs, Govt & Private Sector Business – Pan India:

Kailash is a Commercial Graduate and has more than 15 years of experience in sales and marketing. He worked with reputed companies in North India and already developed a good market in Northern & Western India. As head of Pan India business development, Kailash has been able to create a niche for our business especially the fire safety products in private sector, state governments, PSUs and various other public and private organisations.

Bharat Bhushan, Head Commercial:

Bharat is a Commercial Graduate and has more than 24 years of experience in sales, marketing, plant & machinery procurement, execution. He worked with reputed companies like Godrej & Boyce, SRF – Sriram & Juneja. Before joining us, he was heading the commercial and liaisoning wing of Valecha Engineering and dealing with DDA, MCD, CPWD & Delhi Police. As head of our northern region business, Bharat was instrumental in developing market for our various products in entire railway in northern India.

R Krishnan, Head Legal & Corporate Communications:

R Krishnan is holding Master's Degrees in Management and Business Law from Bangalore with rich experience in HR, Legal, Management, Corporate Communication and Project Implementation. Before joining us, he worked with an American MNC for more than 15 years.

Dhirendra Yadav, Head Services:

Dhirendra is an Electronics Engineer with more than 18 years of experience in service area. Before joining us, he worked with Siemens Electric as Service Engineer for 17 years.

Mohit Gupta, Head HR & Admin:

Mohit has done a Master's degree in Arts and has varied experience of more than 19 years in HR, Administration, Accounts, Management and Liaisoning. Before joining us, he worked with reputed companies like Worlds Window Group, Madhusudan Expofab etc in Delhi.

QUALITY

Our Commitment to Quality is the cornerstone of our existence. Each of our fire protection systems undergoes rigorous quality testing and is manufactured using the finest materials and components. With a strong commitment to quality, safety, and advanced technology, we adhere to strict quality control procedures to guarantee reliability and effectiveness of our products. By investing in Rasika International's products, you can trust that you are investing in uncompromised quality and safety.



COMMITMENT TO

PRODUCT RANGE

Welcome to Rasika International's products range, where we are proud to showcase a wide range of highly effective and most innovative Aerosol-based Fire Extinguishing Solutions. With a strong commitment to quality, safety, and advanced technology, Rasika International provides unique and reliable fire safety solutions tailored to meet the needs of our valued customers. In this catalogue, you will find comprehensive information about various fire safety products.



PRODUCT FEATURES

Aerosol-based Automatic Fire Detection & Suppression Systems are - compact and lightweight design for ease of use and installation - rapid and effective fire detection and suppression capabilities - non-toxic and environmentally friendly extinguishing agents - suitable for various applications, including residential, commercial, and industrial settings.

Automatic Fire Detection & Suppression Systems:

- Advanced systems that detect and suppress fires automatically and instantly within seconds.
- Intelligent sensors for timely activation, minimizing potential damage.
- Customizable solutions to accommodate different environments and hazards

Vehicle Fire Suppression Systems:

- Specifically designed for the protection of vehicles and their occupants.
- Fast response time to prevent catastrophic fire incidents.
- Highly efficient and compact systems for a wide range of vehicles, including
- 2 wheelers, 4 wheelers, buses, trucks, and heavy vehicles.

PRODUCT FEATURES

Specialized Fire Suppression Systems:

- Tailored solutions for specific industries such as oil and gas, marine, data centres, and more.
- Expert team capable of designing and implementing customized fire suppression systems.
- Dedicated support for compliance with industry regulations and standards.

We continuously strive to innovate and improve our products, driven by strong commitment and dedication to staying ahead of the ever-evolving fire protection landscape. By choosing Rasika International, you will have peace of mind knowing that you have entrusted your fire safety to a reliable and forward-thinking partner.

For more detailed product specifications, technical information, and assistance in selecting the right fire suppression solution for your specific needs, please refer to the corresponding sections in this catalogue or contact our knowledgeable sales representatives. At Rasika International, we are committed to preventing fire disasters and ensuring the safety of individuals and property. Join us in our mission to safeguard lives and make fire protection an indispensable part of every environment.

PRODUCT SPECIFICATIONS

FIRESHIELD-08

- Material:** The Fireshield-08 automatic fire extinguisher is made of durable aluminium body to withstand high temperature and pressure.
- Size:** Fireshield-08 contains 8gm Aerosol, making it suitable for use in all closed applications.
- Activation:** Fireshield-08 is designed to automatically activate when exposed to 110°C, releasing the Aerosol to suppress the fire within 15-20 seconds.
- Installation:** Fireshield-08 is easy to install and can be mounted in various closed applications.
- Effectiveness:** Fireshield-08 shall effectively suppress fires in closed applications such as electrical cabinets, server rooms, and other enclosed spaces.
- Maintenance:** No maintenance required.
- Certification:** Meets safety standards and regulations.
- Environmental impact:** Aerosol used in Fireshield-08 is non-toxic and environmentally friendly.



PRODUCT SPECIFICATIONS

FIRE HUNTER

Type:	Manual Fire Extinguisher
Capacity:	50gm Aerosol
Application:	Suitable for all initial fire areas like homes, offices, vehicles, small commercial spaces, etc
Suppression Time:	Can suppress fire within 10 seconds
Special Features:	Easy to use, lightweight, and portable
Compliance:	Meets safety standards and regulations



PRODUCT SPECIFICATIONS

PYROGEN

1. **Material:** Pyrogen make Aerosol based fire suppression cylinders are made of high-quality stainless-steel material to ensure durability and longevity.
2. **Size range:** The product range is available in sizes ranging from 30gm to 5kg providing options for different fire suppression needs of customers.
3. **Activation:** Aerosol cylinder is designed to activate automatically when exposed to temperature in the range of 70°C – 180°C, releasing the fire suppression agent to quickly extinguish the fire.
4. **Coverage:** Aerosol cylinder shall have a coverage area suitable for small to medium fires, effectively suppressing the fire within seconds.
5. **Effectiveness:** Aerosol cylinder is highly effective in suppressing fires, preventing re-ignition and minimizing damage.
6. **Maintenance:** No Maintenance required
7. **Certification:** Aerosol-based cylinder is environmentally friendly and safe for use in occupied spaces, with zero ozone depletion and global warming potential.
8. **Safety features:** The cylinder is designed with safety features such as a pressure relief valve to prevent over-pressurization and a tamper-evident seal for security.
9. **Warranty:** Pyrogen aerosol-based cylinder comes with a warranty to guarantee its quality and performance for 10 Years.



PRODUCT SPECIFICATIONS

FIRESHIELD-13

Type:	Automatic Fire Extinguishing Sticker
Capacity:	13gm Aerosol
Application:	Can be used in all closed electrical appliances.
Suppression Time:	Can suppress fire within 20-30 seconds.
Special Features:	Quick and efficient fire suppression
Compliance:	Meets industry safety standards and regulations
Activation temperature:	480°C.



DSPA-5 SERIES AEROSOL GENERATORS

- Material:** *DSPA-5 series Aerosol Generators are manually throwable fire suppression units and are made of durable and heat-resistant materials to withstand high temperature and pressure.*
- Size:** DSPA-5 series are compact for handling and throwing at large fire with weights ranging from 1.65 kg to 6 kg depending upon the area to be covered.
- Activation:** DSPA-5 series are designed to activate and release aerosol to suppress any large fire within 25 to 40 seconds.
- Coverage:** DSPA-5 series can cover up to 45M³ to 180M³ area and are also suitable for use in large and semi open areas like godowns, malls, storage rooms, libraries etc.
- Effectiveness:** DSPA-5 series shall effectively suppress fires upto 30 minutes. This technology is most suitable where fire has already broken out and temperature has risen in the rage 800°C to 1500°C. With this technology, the temperature comes down to the level of 50°C to 60°C in just 30 to 40 seconds.
- Maintenance:** No maintenance is required.
- Life span:** 15 years
- Certification:** DSPA-5 series are non-toxic, environmentally friendly and safe for human and animals, with no effect of oxygen or ozone depletion potential.



DSPA 5-1 & 5-2



DSPA 5-M

BLAZEBUSTER

- Material:** Blazebuster automatic fire suppression system is made of durable polyamide tube.
- Size:** Blazebuster is available in various lengths ranging from 0.5mtr to 10mtr.
- Activation:** Blazebuster tube is designed to burst when exposed to temperatures within the range of 80°C-180°C +/- 5°C, releasing the clean agent FM 200 or FK 5112 to suppress the fire within the protected area.
- Installation:** Blazebuster is easy to install and can be mounted in all vehicles by any person without any technical support.
- Effectiveness:** Blazebuster is designed to effectively suppress fires in the specified volume of protected area.
- Maintenance:** No maintenance required.
- Certification:** Blazebuster is UL/FM approved and has zero ozone depletion potential, making it environmentally friendly and safe for humans.



IPEX-Impulse Powder Extinguishing Module

IPEX module is a non-pressurised self-contained metal canister delivering a gas- powder extinguishing medium into a fire zone within a few seconds from commencement of the discharge.

The impulse discharge is achieved due to a special non-pressured solid gas generator incorporated into the canister containing a special extinguishing powder. Upon activation of the system the gas generator operates releasing gases. The gases rapidly build up an internal pressure and aerate the extinguishing powder resulting in an impulse gas-powder delivery through a specially designed discharge outlet.

CONSTRUCTION OF AN IMPULSE IPEX MODULE

1. Metal casing
2. Mounting flange
3. Electrically activated non-pressurise solid gas generator
4. Extinguishing agent/medium
5. Membrane
6. Discharge nozzle



Water Mist Fire Detection and Suppression System

PRODUCT SPECIFICATIONS

Water Mist is a high-pressure firefighting system that employs micro droplets released through nozzles into protected areas. The system is safe, efficient, and environmentally friendly. With small pipe dimensions, large coverage, minimal water consumption, a compact pump unit, and a simple design, the high-pressure water mist is the optimum solution to protect against a fire.

BENEFITS OF A HIGH-PRESSURE WATER MIST SYSTEM:

1. Intelligent Use of Water:
2. Quick fire fighting
3. Less Damage
4. Reduce Down Time



OUR CLIENTS



RSI SWITCHGEAR



TRINITRON



Delhi Metro

CERTIFICATE NO:

DIPP 140651



Government of India
Ministry of Commerce & Industry
Department for Promotion of Industry and Internal Trade

#startupindia

*This is to certify that **RASIKA INTERNATIONAL RAIL PRIVATE LIMITED** incorporated as a **Private Limited Company** on **06-01-2022**, is recognized as a startup by the Department for Promotion of Industry and Internal Trade. The startup is working in 'Safety' Industry and 'Others' sector as self-certified by them.*

28-07-2023

DATE OF ISSUE

05-01-2032

VALID UPTO



CSIRO Verification Services
Clayton, Victoria, Australia
+61 3 9036 3400
<https://activfire.csiro.au>

Certificate of Conformity

Certificate num.	Registration date	Version	Valid until
afp - 1781	12-Oct-2005	27	30-Apr-2025

Product designation

Pyrogen™, EXA/EXA-M Series, pyrotechnically generated, aerosol fixed fire suppression system
(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Pyrogen Technologies (Aust) Pty Ltd
18 Barry Avenue, MORTDALE, NSW, AUSTRALIA, 2223

Registrant

Pyrogen Technologies (Aust) Pty Ltd
18 Barry Avenue, MORTDALE, NSW, AUSTRALIA, 2223

Producer

Pyrogen Technologies (Aust) Pty Ltd
18 Barry Avenue, MORTDALE, NSW, AUSTRALIA, 2223
Manufacturing unit (Primary)
Pyrogen Manufacturing Sdn. Bhd.
No. 25, Jalan PIS 11/8, Bandar Subang, 47500 SUBANG JAYA, SELANGOR, MALAYSIA

Conformance criteria and evaluation

The Pyrogen™, EXA/EXA-M Series, pyrotechnically generated, aerosol fixed fire suppression system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 4487-2013, 'Condensed aerosol fire extinguishing systems—Requirements for system design, installation and commissioning and test methods for components'.
 2. International Standard ISO 15779-2011, 'Condensed aerosol fire extinguishing systems - Requirements and test methods for components and system design, installation and maintenance - General requirements'.
 3. Australian Standard AS 1851-2012, 'Routine service of fire protection systems and equipment'.
 4. NFPA Standard NFPA 2010-2006, 'Aerosol Fire Extinguishing Systems'.
- This certification is issued within the scope of CSIRO Verification Services – Rules governing ActiveFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.
 - Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
 - The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the performance criteria defined in this certificate.
 - This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
 - This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
 - This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
 - Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
 - Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
 - Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kai Loh

Kai Loh

Executive Officer – ActiFire Scheme



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This certificate remains the property of CSIRO and may be subject to amendment, suspension or withdrawal at any time. The validity and authenticity of this certificate can be verified by the certification register located at <https://activfire.csiro.au>

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until
afp - 1781	12-Oct-2005	27	30-Apr-2025

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluators for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's technical manual/data sheets and the requirements of the authority having jurisdiction. Specified limitations/conditions, determined from the evaluation for conformity, include the following:

1. This equipment is intended for use in normally unoccupied areas. Use in protected areas, which may be occupied, is subject to effective design strategies, requirements and measures for human evacuation which are determined in accordance with the relevant requirements of the regulations, standards and criteria as accepted authorities having jurisdiction.
2. Ambient temperature of protected enclosure between -50°C and +65°C. (EXA models) and -50°C and +85°C (EXA-M models).
3. Design and installation shall be done in accordance with the Pyrogen™, Design, Operation & Maintenance Manual, Fixed Aerosol Fire Suppression System.
4. Height limitations height to protected enclosure in accordance with following table:

Generator	Max. enclosure height	Generator	Max. enclosure height
EXA-23	1.5 m	EXA-50E	4.5 m
EXA-26	2.0 m	EXA-M-01	1 m
EXA-2	2.5 m	EXA-M-28	1.25 m
EXA-2	3.0 m	EXA-M-1	2.0 m
EXA-10	3.5 m	EXA-M-3	2.0 m
EXA-30	4.0 m	EXA-M-2	2.5 m
EXA-30	4.0 m	EXA-M-5	3.0 m
EXA-30	4.0 m	EXA-M-10	3.5 m
		EXA-M-10	3.5 m

5. Due to a potential hazard of high temperatures at the end-plate nozzle, the following minimum clearances from the discharge nozzle for each type of generator should be observed during installation

Generator	Min. clearance	Generator	Min. clearance
EXA-23	200 mm	EXA-50	1,500 to 2,000 mm
EXA-26	300 mm	EXA-50E	1,500 to 2,000 mm
EXA-1	400 mm	EXA-M-22	150 mm
EXA-2	500 mm	EXA-M-28	150 mm
EXA-5	700 mm	EXA-M-1	800 mm
EXA-5	700 mm	EXA-M-1	800 mm
EXA-10	1,500 to 2,000 mm	EXA-M-2	700 mm
EXA-30	1,500 to 2,000 mm	EXA-M-3	700 mm
EXA-30E	1,500 to 2,000 mm	EXA-M-10	1,000 mm
		EXA-M-10	700 mm
		EXA-M-10	700 mm

Schedule to Certificate of Conformity

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Producer's description

The Pyrogen™, EXA/EXA-M Series, pyrotechnically generated, aerosol fixed fire suppression system is a pre-engineered compact, non-stored pressure, electrically actuated fixed fire protection system which extinguishes fire by using an extremely fine low settling rate chemical dry powder plus inert gases. The powder particles are induced into the fire and quickly cause complete chemical inhibition of the fire's radical-forming chain reactions. This, together with the oxygen dilution and cooling produced by the inert gases, rapidly extinguishes the flaming combustion of most fuels. The chemical dry powder and inert gases are produced by a rapid but non-explosive exothermic reaction, of a patented 'verol-forming substance', which commences within the shell of each Pyrogen™ generator immediately after electric initiation. During the reaction, the inert gases and 'micro-sieved' particles of powdered chemical extinguishant are forcefully ejected from the nozzle holes of the generator and thereby thoroughly mixed with the atmosphere within the protected area. The inert gases emitted by the generator are predominantly nitrogen, carbon dioxide, and water vapour. At a specified minimum clearance from a nozzle opening the aerosol temperature shall not exceed 200°C (EN, ISO) when in contact with non-combustible materials and 400°C (EN, ISO) when in contact with non-combustible materials.

The initiation of the EXA/EXA-M Series generators is by means of an electrical activation igniter located inside the generator. Any extinguishing system control panel is likely to be capable of activating one or several generators simultaneously. A suitable panel should be chosen by reference to the Pyrogen™ Fixed Aerosol – Fire Suppression System Manual, or with the help of an authorised Pyrogen™ equipment supplier.

The supplied equipment of a Pyrogen™, EXA/EXA-M Series, pyrotechnically generated, aerosol fixed fire suppression system includes, mounting brackets, and all necessary fasteners to attach these to the generator. A weather and vibration resistant electrical connector with a plug or a junction box with electrical terminals is furnished with all generators.

The Pyrogen™, EXA/EXA-M Series, pyrotechnically generated, aerosol fixed fire suppression system is suitable for use in marine or tropical environments, as evidenced by results of its testing for resistance to vibration, salt-crystal corrosion, and moisture ingress. Accidental and deliberate releases of Pyrogen™ aerosol do not contribute to global atmospheric warming or ozone depletion.

Technical specification

The following details are a representative extent of the technical specification for the Pyrogen™, EXA/EXA-M Series, pyrotechnically generated, aerosol fixed fire suppression system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/fitted equipment.

Generator	Mass of propellant @ 100 °C	Mass of propellant @ 200 °C	Max. pressure @ 100 °C	Nozzle outlet	Length	Diameter	Discharge time
EXA-23	300 g	30 g	0.3 MPa	None	118 mm	38 mm	20 s
EXA-26	600 g	60 g	0.6 MPa	None	138 mm	51 mm	24 s
EXA-1	900 g	100 g	1 MPa	None	189 mm	64 mm	30 s
EXA-2	1,200 g	120 g	1 MPa	None	237 mm	76.2 mm	30 s
EXA-5	1,500 g	150 g	1 MPa	None	232 mm	89 mm	30 s
EXA-10	3,000 g	300 g	1 MPa	None	300 mm	100 mm	30 s
EXA-20	11,500 g	1,000 g	3 MPa	None	294 mm	129 mm	30 s
EXA-30	21,000 g	1,800 g	3 MPa	None	342 mm	150 mm	30 s
EXA-30E	21,000 g	1,800 g	3 MPa	None	315 mm	265 mm	35 s
EXA-50	21,000 g	1,800 g	3 MPa	None	412 mm	230 mm	35 s
EXA-50E	21,000 g	1,800 g	3 MPa	None	315 mm	245 mm	35 s
EXA-M-22	425 g	20 g	0.2 MPa	None	107 mm	40 mm	5 s
EXA-M-28	505 g	20 g	0.6 MPa	None	109 mm	40 mm	10 s
EXA-M-1	905 g	100 g	1 MPa	None	203 mm	40 mm	15 s
EXA-M-1	1,385 g	150 g	1 MPa	None	193 mm	40 mm	15 s
EXA-M-2	1,850 g	200 g	2 MPa	None	209 mm	75 mm	15 s
EXA-M-5	4,400 g	500 g	3 MPa	None	279 mm	112 mm	15 s
EXA-M-10	6,500 g	1,000 g	3 MPa	None	405 mm	112 mm	20 s
EXA-M-10	6,500 g	1,000 g	3 MPa	Ø	461 mm	112 mm	20 s

Note: Length of cylindrical module includes the attached connectors

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until
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Schedule of components and/or assemblies

The following is a schedule of validated components of the certified/fitted equipment.

Accessories	Part number
Thermal activation device T-start-45C	302 T-45
Thermal activation device T-start-72C	303 T-72
Thermal activation device T-start-120C	305 T-120
Activation device T-start Manual	306 T-man
Detachable circuit junction box for T-start/TAD	308 DCB
Protective cap	307 P-CAP
High intensity power accelerator for T-start/TAD with isolation switch	309 HP-PAWS
Small electrolyte power accelerator for T-start/TAD with isolation switch	309 SEP-PAWS
Back up rechargeable power accelerator for T-start/TAD with isolation switch	310 BUB-PAWS
Thermal activation device TAD-45	TAD-45
Thermal activation device TAD-72	TAD-72
Thermal activation device TAD-120	TAD-120
Thermal activation device TAD (manual operation)	TAD-M
Activation device TAD-manual	TAD-Manual, Rev. 1.3
FireCase Detection and Activation System With Isolation Switch	101-2200AS
FireCase Detection and Activation System	102-220
FireCase Detection system fire circuit	103-220P
FireCase Detection system fire circuit	104-220P
FireCase CMC Detection and Activation System	107-CC-FCM
Dual-Output Booster (fully monitored) to increase number of connected canisters or use high current output for canisters up to 5 Amp	201 DOB2
Junction Box for Monitoring 1 Discharge Line (metal case for industrial panel)	202 JB-1IN
Junction Box for Monitoring 2/3 Discharge Lines (plastic case for panel & automotive applications)	203 JB-2/3 MA
Panel & automotive applications	204 JB-4/5 MA
Panel & automotive applications	204 JB-4/5 MA
Flush mounting Plate for Detection and Activation System	205 FMF-CP-101-4
Igniter interface Unit (ICU) to monitor Discharge line through SIM (10 per canister)	406 IIC
Supervision Fire Module (SFM) - universal interface to monitor 8 Discharge Lines for applications in marine & automotive applications	207 SFM
Supervision Fire Module (SFM) - universal interface to monitor 8 Discharge Lines for applications in marine & automotive applications	208 AUB-2/3 MA
Size suitable for applications in marine & automotive applications	209 AUB-4/5 MA
Junction Box for Monitoring 4/5 Discharge Lines (aluminium casting case suitable for applications in marine & automotive applications)	701 JPB12
Power pack input 240 VAC output 12 VDC 7.2A/h battery in a box	702 PP24
Power pack input 240 VAC output 12 VDC 7.2A/h battery in a box	703 BLB12
12VDC 7.2A/h back up battery in a box with isolation switch for vehicle and marine applications	704 BUB24
24VDC 1.2A/h back up battery in a box with isolation switch for vehicle and marine applications	51500WS-EVAC
Sign Illuminated with Sounder EVAC	51500WS-EVAC
Sign Illuminated with Sounder CMC	51500WS-EVAC

Classifications:
Suitable for fire Class A – combustible solids
Class B – flammable liquids
Class C – flammable gases
Class E – electrically energised fires
In accordance with the requirements for goods classification as U.N. num. 3378 Dangerous Goods Class 4.1, Category C, Hazard Code 111

Minimum design factor:
Class B and surface Class A fires: 100 g/m²
Dense cable fires: 200 g/m²



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