

EUSEBI IMPIANTI

消防系统
Fire Fighting System



www.eusebi-impianti.cn

EI 北京办事处

北京市1033信箱 龙城丽宫国际酒店
邮编：102208
电话：86-10-8079 0922
传真：86-10-8079 3933

Beijing

Beijing, Mail Box 1033, Loong Palace
International Hotel 102208
Tel: 86-10-8079 0922
Fax: 86-10-8079 3933
<http://www.eusebi-impianti.cn>

EI 天津工厂

天津空港经济区西十道5号
邮编：300308
电话：86-22-8438 1706
传真：86-22-8438 1705

Tianjin

No.5,Xishi Road,Tianjin Airport Economic
Area.Tianjin 300308
Tel: 86-22-8438 1706
Fax: 86-22-8438 1705
<http://www.eusebi-impianti.cn>

Eusebi Impianti 集团

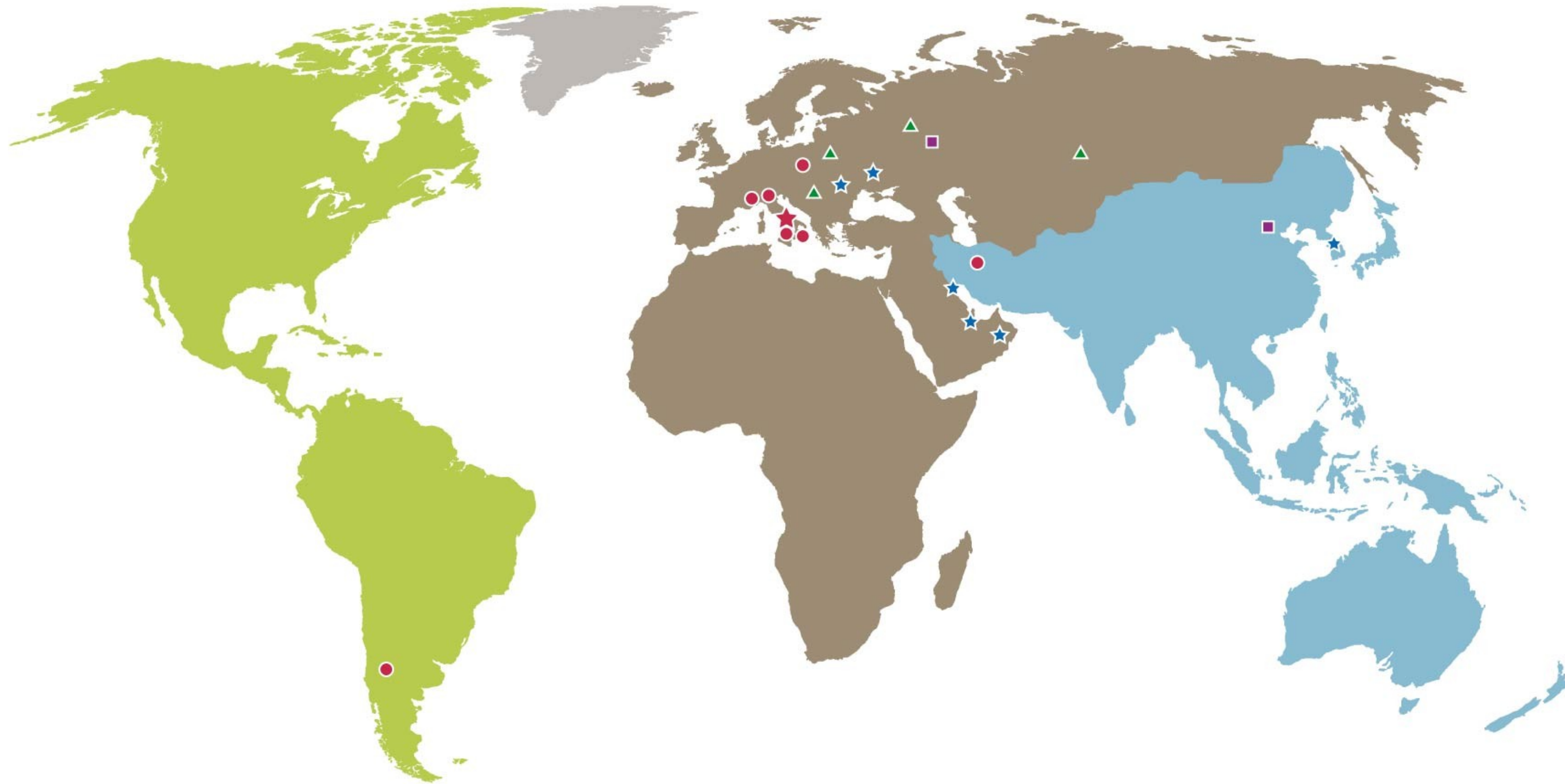
您的安全，我们的目标。

Eusebi Impianti集团在欧洲、亚洲、美洲等地拥有众多充满活力的公司，在国际消防领域，已经拥有了超过四十年的专业经验。面对各类高难度的消防防护领域，包括能源行业、石油行业、石油化工行业、海军舰船领域、军工行业等，Eusebi Impianti集团为世界上众多的客户提供综合消防设计方案、制造技术先进的消防系统、提供完善周到的配套服务。

Eusebi Impianti集团的众多消防系统，克服各种困难与阻碍，在世界各个国家和地区取得了产品认证及检验报告；这也证明我们在项目经验中培养出了高超的专业技术能力，也为客户提供了最先进的专业解决方案。

从实验室中的技术人员到项目现场的工程师，Eusebi Impianti集团的每一位员工都在通过自己的努力工作完成每一个消防项目；我们的工作目标只有一个：不断提升客户的生命和财产安全。

开拓创新的精神，价值体系的成长，先进熟练的技术能力以及可靠的责任感，将共同推进Eusebi Impianti集团不断提升产品及服务的质量品质，为客户提供可靠优质的消防解决方案。



EUSEBI IMPIANTI GROUP

YOUR SAFETY IS OUR PASSION.

The Eusebi Impianti Group is composed of dynamic, integrated and flexible companies who have been operating internationally for over 40 years, designing firefighting systems in the complex energy, oil, petrochemical, naval and military fields.

The certifications we have received and the variety of systems we have designed all over the world, often in difficult conditions, are a testament to the expertise we have acquired and the innovative solutions we offer.

Each project is the result of everyone's commitment, from lab technicians to site personnel, with the sole objective of improving the safety of properties and people.

A spirit of innovation, heightened by a system of values, proficiency and a sense of responsibility drives the Eusebi Impianti Group to continually raise their quality standards.



Eusebi 集团由分布在意大利，中国，俄罗斯，克罗地亚，哈萨克斯坦，波兰等国在内的12个公司组成，致力于消防领域。

Eusebi Group is made of 12 companies, including headquarter, subsidiaries, joint ventures, distributors, branch offices and etc. They locate in Italy, China, Russia, Croatia, Kazakhstan, Poland and etc, contributing to the fire fighting industry.

- ★ Headquarter 总部
- ▲ subsidiary company 子公司
- Branch offices 分销处
- ★ International Distributors 海外办事处
- Joint Venter 合资公司



YOUR FIRE PROTECTION PARTNER

您的火灾防护合作伙伴

在消防领域拥有超过40年的丰富经验，为全世界客户设计生产供应上千套消防系统，对于在高难度行业领域，需要专业消防防护的客户来说，Eusebi Impianti集团是非常理想的合作伙伴。

Eusebi Impianti集团一直致力于在最具有难度和挑战性的消防领域，为客户的生命财产提供安全保障：核电厂及热电厂、军用舰船、石油冶炼厂、钢铁厂、历史文化古迹等。

Eusebi Impianti集团供应的各类消防系统，满足各个主要国家及相关地区的规定和产品标准。这也保证了Eusebi Impianti集团能够为客户提供最适合的消防系统解决方案，充分考虑客户的需要、满足客户的要求，提供最优质可靠的产品和服务。

Eusebi Impianti集团一直以客户的消防安全为己任，不论从功能上还是从结构上都能为客户提供符合要求的综合消防解决方案。

With 40 years' worth of experience in the field of firefighting and thousands of systems designed and installed all over the world, Eusebi Impianti is the ideal partner of clients who need a specialist in this complex field.

A persistent commitment to the safety of persons and objects in all the sectors where firefighting systems are the most challenging: nuclear and thermoelectric plants, military vessels, refineries, steel plants, historical buildings.

The expertise we have acquired, operating in compliance with the main national and international regulations, qualifies Eusebi Impianti's safety professionals to design the most suitable system of fire hazard prevention, always taking into account the client's needs and with the best quality.

Eusebi Impianti is a well-established company able to design the system which is most suited to the client's functional and structural needs.

EXPERIENCE AND TECHNOLOGICAL RESEARCH ARE OUR KEYS TO SUCCESS

经验与技术研究是我们成功的关键

Eusebi Impianti集团在消防领域横跨若干个行业，表现突出，这都得益于Eusebi Impianti的经验、坚韧与创新。

Eusebi Impianti，作为集团公司总部，位于意大利安科纳，是欧洲消防系统设计、生产与安装的领导企业之一。

Eusebi Service也位于意大利安科纳，专注于消防系统的维护保养，为众多的油气田提供技术支持。

CMV位于意大利维琴察，生产各类用途的高压钢瓶，包括消防用钢瓶。

OML位于意大利米兰，生产气体灭火系统需要的各种阀门、喷头、启动装置和其他附件。

Eusebi Mediterraneo位于意大利巴里，主要业务为安装消防系统，并完成系统的调试和启动。

Eusebi Impianti集团公司还在欧洲、亚洲和中南美洲建立了众多的分支机构和代理商网络。

The Eusebi Impianti Group is a group of several industries in the firefighting field which stand out because of their experience, tenacity and innovation.

The leader, Eusebi Impianti, with headquarters in Ancona, is one of the European leaders in the design, production and installation of automatic fire fighting systems.

Eusebi Service located also in Ancona is specialized in the maintenance of fire fighting systems, in providing technical assistance on oil and gas wells.

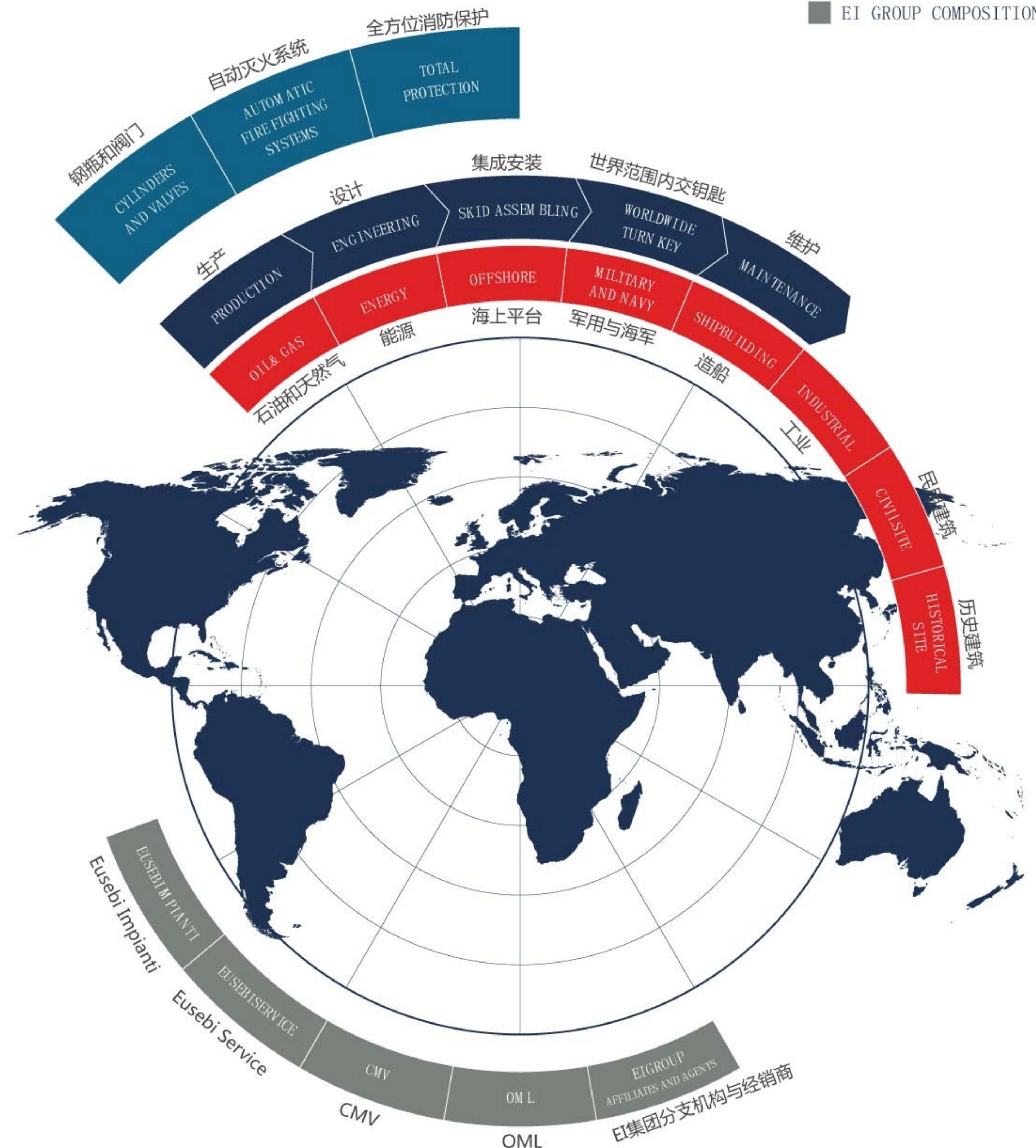
CMV in Zanè (Vi) produces high-pressure cylinders for various uses, including fire suppression.

OML is located in Milan and constructs valves, nozzles, activators and other accessories used in gaseous firefighting systems.

Eusebi Mediterraneo, in the province of Bari, installs firefighting systems and is specialized in Fire and Gas commissioning and startup.

The Eusebi Impianti Group can count on a network of affiliates and agents throughout Europe, Asia and central South America.

- 核心业务
CORE BUSINESS
- 服务
SERVICES
- 领域
SECTORS
- EI GROUP COMPOSITION



CMV: A GROUP OF PROFESSIONALS SPECIALIZED IN THE PRODUCTION OF HIGH-PRESSURE CYLINDERS.

CMV：生产高压钢瓶的专业厂商

2006年，Eusebi Impianti公司收购了当地一家专门生产钢瓶的厂商，并以此成立了CMV公司。

CMV为诸多应用领域生产专用的高压钢瓶，比如CNG压缩天然气、工业气体、消防领域等。钢瓶生产的原料为铬钼钢无缝钢管，尺寸从170mm开始、最大可达406mm，最大高度可达2100mm。钢瓶容积从15L到200L均可提供，最大工作压力350bar，最大测试压力可达500bar。CMV的质量控制系统通过了德国TUV认证，生产的高压钢瓶通过了绝大多数世界范围内知名标准的认证：R110、ISO11439、TPED和PED。

此外，CMV还在专用领域取得了产品认证：船用领域、固定消防灭火系统领域，在专门市场也取得了认证：俄罗斯、乌克兰、哈萨克斯坦（GOST），美国（DOT），加拿大（TC）。CMV也取得了阿尔及利亚ARH认证。

CMV was created in 2006 when the Eusebi Impianti Group acquired a local industry specializing in cylinder production.

CMV produces high-pressure cylinders for various sectors such as CNG, technical gases and fire fighting. The cylinders are seamless steel made with chromium-molybdenum tubes with diameters starting from 170mm and reaching 406 mm, length up to 2100mm, water capability from 15L up to 200L, working pressure up to 350 bar and pressure test reaching 500 bar. CMV's quality system has been certified by TUV and the cylinders are certified according to the most renowned international standards: R110, ISO11439 TPED and PED.

Furthermore, CMV has been granted certifications for specific applications in the maritime field, for fixed firefighting equipment and specific certification for the Russian, Ukrainian, Kazakh (GOST), American (DOT) and Canadian (TC) markets. CMV has also obtained the Algerian ARH certification.

OML: A DYNAMIC, VERSATILE AND FLEXIBLE COMPANY, ABLE TO MEET ANY NEED

OML: 充满活力、功能齐全、全面灵活的公司，
能够满足任何需求

从1972年起，位于意大利米兰的OML，就开始专业生产多品类的消防产品配件，也按照客户的特殊需求生产加工特殊部件。

OML拥有先进的技术经验和高科技生产设备，保证了Eusebi Impianti集团能够完全自主生产气体灭火系统。

通过高效活力的运作方式，OML能够生产出高品质的灭火系统零部件、机械部件和电气部件之间的连接件。

自上个世纪90年代开始，OML的生产体系就通过了公司质量控制系统认证。公司同时也取得了PED和CPD认证。

Since 1972 OML, a company located in Milan, has specialized in the production of a wide range of firefighting products, as well as manufacturing special items at the client's request.

Thanks to its know-how and the use of high-tech equipment, OML can ensure that the Eusebi Impianti Group is completely autonomous in the production of gaseous firefighting systems.

Using an efficient and dynamic method of operating, OML can also offers high quality products for the implementation of extinguisher fire fighting systems and the connections between the electronic and mechanical parts.

Since the 90's OML production is certified for its own Company Quality Control. The company has also been granted the PED and CPD certifications.



EUSEBI IMPIANTI CHINA

EI (中国) 组织架构

EUSEBI IMPIANTI一直以来非常重视中国客户的生命与财产安全，希望能够为中国客户提供品质可靠、服务周全的消防系统产品及服务，现已在中国首都北京设立了办事处，并在天津设立了生产工厂。EUSEBI IMPIANTI北京办事处主要负责中国地区的销售及售后服务工作，天津工厂负责装配生产高压气体灭火系统及高压细水雾系统，为客户提供品质可靠的消防系统。随着EUSEBI IMPIANTI在中国业务的不断扩张，在上海及广州也即将设立办事处，竭尽全力为客户提供更加快捷与周到的产品和服务。

Eusebi Impianti always cares about the life and asset safety of China clients, in hopes of providing reliable products and excellent services in China. Now in Beijing, an office has been built up, in charge of all the sales and after-sales services work in China; and in Tianjin, EI establishes a plant, which is mainly responsible for assemble and produce high pressure gas fire fighting systems and high pressure water mist systems of great reliability and good quality. With the constant business spread in China for Eusebi Impianti, new offices will be built up soon in Shanghai and Guangzhou. With joint efforts, we Eusebi Impianti offer you best fire protection products and services.



EI PRODUCTS CERTIFICATES

EI 产品认证



- 检验报告
- ISO9000认证
- CE认证
- TUV认证
- UL认证

Certificate

All the high pressure gas systems produced in EI Tianjin Plant, and high pressure water mist system manufactured by EI headquarter have passed the tests and checks carried out by China National Center for Quality Supervision and Test of Fixed Fire-fighting Systems and Fire-resisting Building Components, and China Certification Center for Fire Products Ministry of Public Security; and CCC certificates have been achieved for high pressure water mist system.

ISO9000 Certificate

EI Tianjin Plant has achieved ISO9000 quality management system certification. EI Tianjin Plant assures the products quality from all aspects: suppliers check and validation, procurement quality management, production quality control, after sales quality assurance and so on; so that we can provide good and reliable products to our clients.

CE Certificate

In all the gas fire fighting systems, the cylinder valves, direction valves, solenoid valves, pressure switches are supplied by OML, owned by Eusebi Group, specialized in valves manufacturing, with CE certificate.

TUV Certificate

CMV is a subsidiary company under Eusebi Group, specialized in high pressure cylinders production; CMV's quality system has been certified by TUV and the cylinders are certified according to the most renowned international standards: R110, ISO11439 TPED and PED

UL Certificate

The nozzles in the high pressure water mist systems have been UL listed.

检验报告

EI 天津工厂在中国生产的所有高压气体灭火系统，以及意大利EUSEBI IMPIANTI总部原装进口的高压细水雾灭火系统，均通过了公安部天津消防科学研究所国家固定灭火系统和耐火构件质量监督检验中心，检验合格，取得形式检验报告。同时高压细水雾取得了产品的CCC认证。

ISO9000认证

EI 天津工厂还取得了ISO9000质量管理体系认证，从供应商资质审核、采购质量管理、生产质量控制、售后质量保障等方面全方位保证产品质量，为客户提供可靠优质的产品。

CE认证

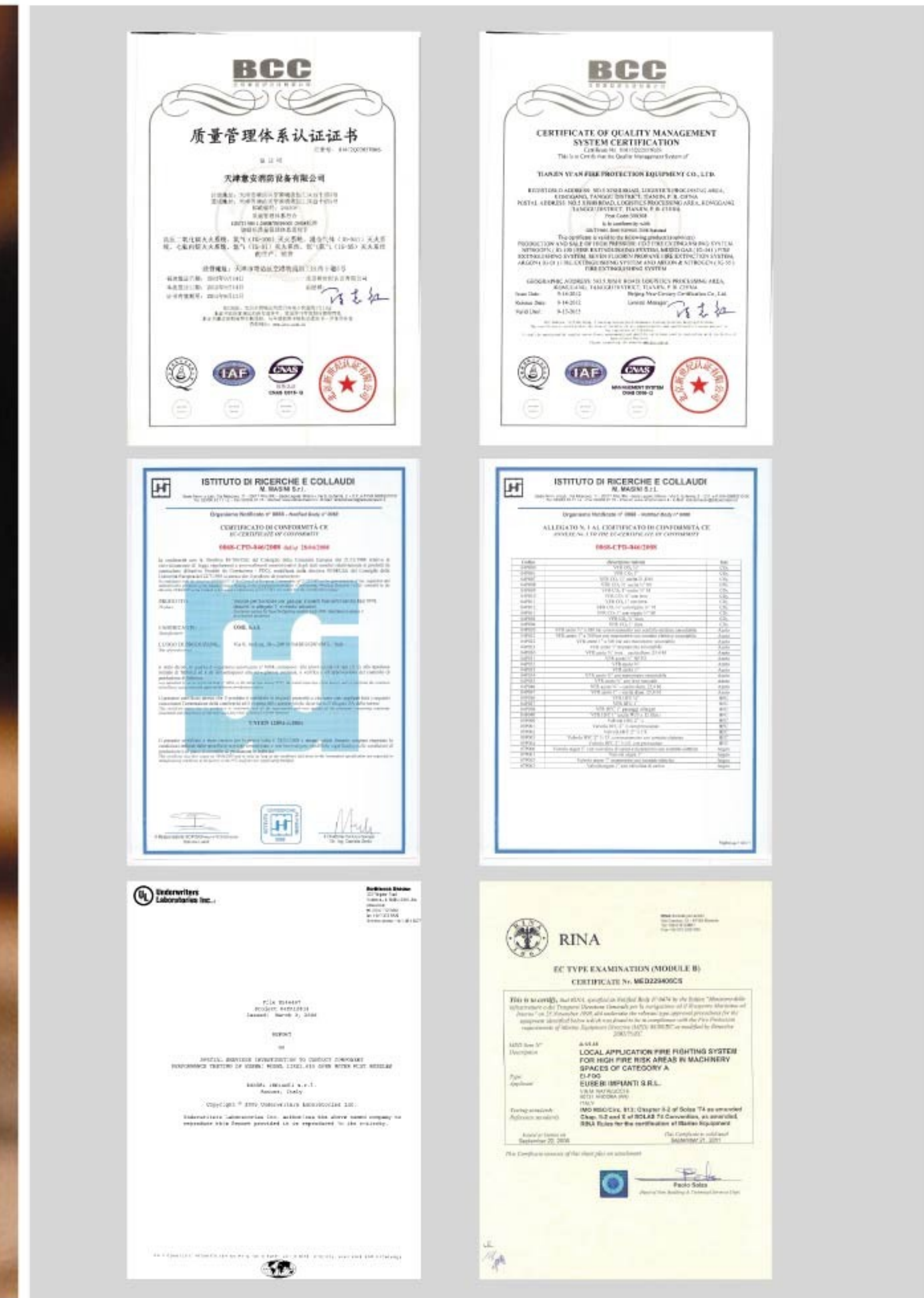
气体灭火系统中采用的容器阀、选择阀、电磁阀、信号反馈装置均由EUSEBI GROUP旗下全资子公司OML进行生产制造，具有CE认证。

TUV认证

EUSEBI GROUP旗下子公司CMV公司专业生产的高压钢瓶，质量控制系统通过了德国TUV认证，高压钢瓶通过了绝大多数世界范围内知名标准的认证：R110、ISO11439、TPED和PED。

UL认证

高压细水雾系统所使用的喷嘴通过了UL认证。



EI PRODUCTS CERTIFICATES

EI 产品认证



EI PRODUCTS



EI 产品分类

EI 先进技术引进业界方向，向中国市场提供高品质哈龙替代灭火系统的全面解决方案。包括IG、HFC227、CO2、细水雾等产品。

EI is one of the top leaders in fire fighting technology, and provides high quality fire fighting systems in China market, including IG system, HFC227 system, CO2 system and high pressure water mist system.



EI Inert Gas Fire Fighting System

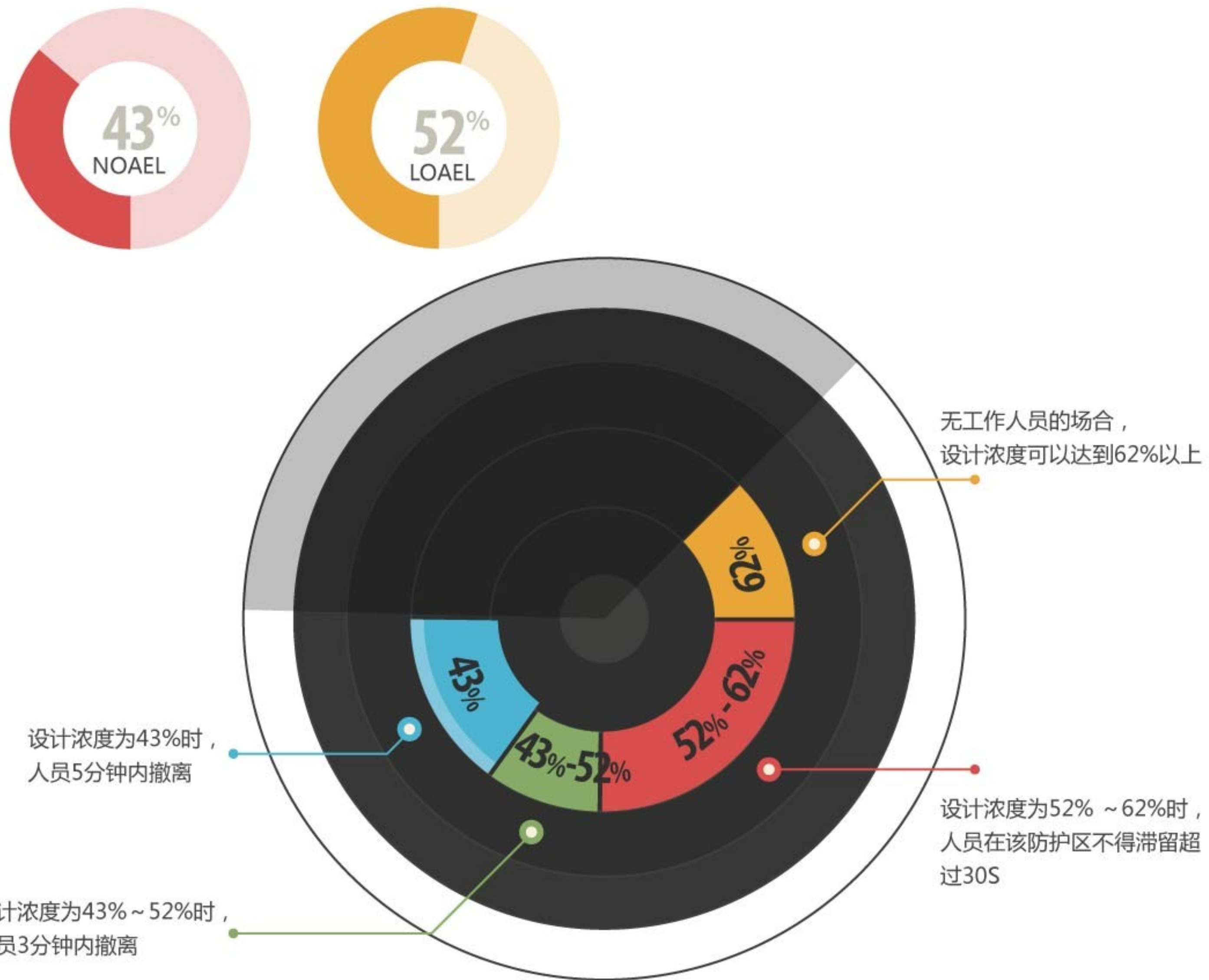
EI 惰性气体灭火系统

系统介绍

System Introductions

- ★ 惰性气体灭火系统包括IG01氩气灭火系统、IG100氮气灭火系统、IG55氮气氩气混合气体灭火系统、以及IG541混合气体灭火系统。
- ★ 惰性气体灭火系统采用“全淹没”浸入式灭火原理，使空气中氧气浓度降至15%以下，使火势熄灭；该类系统可以根据防护区需要，设计使用单元独立式系统或者组合分配式系统。气体存储于90L钢瓶内，20°C时储存压力为15MPa，工作温度为0至50°C，喷放时间48秒至60秒。灭火浓度设计计算软件由意大利EUSEBI IMPIANTI提供，经过德国vds认证。
- ★ Eusebi Impianti 还能提供工作压力达到30 MPa的IG惰性气体灭火系统。采用EI集团旗下子公司CMV生产的无缝钢瓶，通过T-PED认证，钢瓶最大工作压力达到35 MPa。钢瓶最大试验压力可达50MPa。30MPa工作压力的IG惰性气体灭火系统，与20MPa或者15MPa工作压力的系统相比，采用的钢瓶数量更少、工作压力更高、气体喷射距离更远，更易于安排钢瓶间和排布钢瓶，节约空间、节省成本。
- ★ Inert Gas Fire Fighting System includes: IG01 Argon Fire Fighting System, IG100 Nitrogen Fire Fighting System, IG55 Nitrogen & Argon Fire Fighting System, IG541 Mixed Gas Fire Fighting System.
- ★ Inert Gas Fire Fighting System is a total flooding system; the inert gas reduces the Oxygen concentration down to less than 15%, to put out the fire. According to the different needs of protection zones, single system and distribution system can be designed and applied. The inert gas is stored in 90L cylinders; the storage pressure is 15MPa at 20°C; working temperature is 0 to 50°C; and discharge time is between 48 and 60 seconds. The fire fighting concentration design calculation is supplied by Eusebi Impianti, certified by German vds.
- ★ Eusebi Impianti is also able to provide Inert Gas Fire Fighting System with 300 bar working pressure. Inert gases are pressurized in the seamless steel cylinders manufactured by CMV, a Eusebi Impianti company, specialized in cylinders production. All the cylinders are T-PED approved, maximum working pressure up to 350 bar, and test pressure reaching 500 bar. Compared with 200 bar or 300 bar working pressure IG systems, 300 bar IG systems uses less cylinders, with much higher working pressure which enables a much more distant discharge; choosing cylinders room and cylinders placement become easier, leaving more spaces for other usages and with less costs.





- ★ IG系统生理反应浓度：
生理反应浓度：NOAEL=43% LOAEL=52%
NOAEL—无毒性反应浓度，观察不到由灭火剂毒性影响产生生理反应的灭火剂最大浓度。
LOAEL—有毒性反应浓度，能观察到由灭火剂毒性影响产生生理反应的灭火剂最小浓度。
设计浓度为43%时，人员5分钟内撤离
设计浓度为43%~52%时，人员3分钟内撤离
设计浓度为52%~62%时，人员在该防护区不得滞留超过30S
无工作人员的情况，设计浓度可以达到62%以上

- ★ Physiological Reaction Concentration for IG systems:
Physiological Reaction Concentration: NOAEL=43% LOAEL=52%
NOAEL - no observed adverse effect level
LOAEL - lowest observed adverse effect level
When design concentration reaches 43%, evacuate within 5 minutes.
When design concentration is between 43% and 52%, evacuate within 3 minutes.
When design concentration is between 52% and 62%, human beings are not allowed to stay in the protection areas more than 30 seconds.
When design concentration is more than 62%, it is applied in the non-occupied areas.

惰性气体灭火系统适用性 Inert Gas Fire Fighting System Applications



技术参数 Technical data

技术参数 Technical data	IG01	IG100	IG55	IG541
灭火剂 Agent	100%氩气	100%氮气	50%氩，50%氮	52%氮，40%氩，8%CO2
最小工作压力(0°C) Minimum working pressure	14.0MPa	13.6MPa	14MPa	13.6MPa
最大工作压力(50°C) Maximum working pressure	17.2MPa	17.2MPa	17.2MPa	17.2MPa
充装密度 Agent filling density	259.22kg/m ³	168.78kg/m ³	212.33kg/m ³	211.11kg/m ³
容器容积 Cylinder volume	90L			
工作温度 Working temperature	0 ~ 50°C			
储存压力(20°C) Storage pressure	15MPa			

特点

Characteristics



01 灭火剂为洁净气体，可长期使用，没有淘汰风险 Clean agent, long term use, no risk to be forbidden

氮气、氩气是空气中的组成部分，是环境友好气体，灭火后又回归大气，不破坏臭氧层，不产生温室效应。既不受“蒙特利尔协议”的限制，也不受“京都议定书”的限制，没有被淘汰的风险，可长期使用。

Nitrogen and Argon exist in the air, are environment friendly gases. After fire extinguishing, they return to atmosphere. They do not harm the Ozone Layer, no Green House Effect. Neither restricted by Montreal Protocol, nor limited by Kyoto Protocol.

02 灭火剂来源广泛，市场接受程度高 Easy to get agent, highly accepted by market

氮气、氩气直接从空气中提取，成本低，来源广泛，市场接受程度高。

Nitrogen and argon can be directly extracted from air with low cost, with wide sources. In the production process, reagents are not used; it leaves no residues. The agent is highly accepted by the market.

03 对贵重仪器、设备、资料无损害 No damage to high-value equipment, instruments or documents

物理式灭火，无腐蚀，无毒，不导电，不产生分解物，不腐蚀设备。灭火后，灭火剂没有任何残渣或残留物，火灾现场易于清理。

Fire is extinguished physically. Non-corrosive, non-poisonous, non-conductive, no secondary substances are produced, and there is no damage to equipment, instruments or documents. After fire extinguishing, there is no remaining substance or residue; it is easy to clean the fire site.

04 对人的生命不构成危害 No threat or risk for people life

可安全用于有人员的场合，惰性气体灭火剂喷射时，不产生白雾，视野清晰。

The system can be used in the places where people stay. When there is a discharge, no fog, the vision is clear for human beings.

惰性气体灭火系统 - EI 独特优势

EI Uniqueness

- ★ EI 惰性气体灭火系统产品系列最为全面，拥有IG01氩气、IG100氮气、IG55氮气氩气混合气体、IG541混合气体全套产品线。EI provides the most various inert gas fire fighting systems: IG01 Argon, IG100 Nitrogen, IG55 Nitrogen & Argon, IG541 Mixed Gases systems.
- ★ EI IG01氩气和IG100氮气灭火系统为单气体灭火系统，只需要充装一种灭火剂，充装效率高，生产周期短。IG01 Argon and IG100 Nitrogen systems are with single kind of gas agent; the gas filling efficiency is high, with short production time.
- ★ EI的容器阀可以现场灌装药剂。我公司所设计制造的容器阀，设有专门的充气口，通过该接口，可以直接与充气设备连接对气瓶进行灌装，而不用将瓶组全部拆卸，操作简便，节约资源。现场灌装药剂的功能仅仅是EI中国可以做到。EI cylinder valve enable on site gas filling possible. The cylinder valves are designed and manufactured by our own company, with special gas filling inlet. By connecting this inlet to gas filling station, agent recharge can be fulfilled. There is no need to disassemble the cylinder valve, easy to operate, and cost saving. Only EI China is capable of filling agent gas on site.
- ★ 采用意大利CE认证的电磁阀，直接实现系统自动启动喷放。无需氮气启动瓶组，无需启动紫铜管路。该技术减少启动瓶组设备，节约设备和启动管路安装空间，大大缩短安装周期。Solenoid valves with CE certification from Italy are used in the system, which can activate the automatic discharge directly, no need to use N2 pilot cylinder or red copper activation pipelines. Since the pilot cylinder and relevant pipelines are saved, more space can be spared for equipment, to shorten installation time as well.
- ★ EI IG100氮气系统和IG01氩气系统，具备现场充装灭火剂的功能。在中国，只有天津意安的产品具备现场充装的能力。IG100 Nitrogen System and IG01 Argon System can be filled with gas agents on site. In China, EI Tianjin Plant is the only manufacturer which is able to accomplish gas filling on site.

氮气、氩气灌装设备

Nitrogen, Argon gas filling equipment



二氧化碳灌装设备

CO2 gas filling equipment



灭火剂储罐 (氩气、氮气、CO2)
Gas tanks (Nitrogen, Argon, CO2)

CO2 自动灌装机
CO2 filling station

先进设计计算软件VDS认证

Advanced design calculation software, VDS certified

	CLASS B		CLASS A	
	灭火浓度 Fire extinguishing concentration	最低设计浓度 Minimum design concentration	灭火浓度 Fire extinguishing concentration	最低设计浓度 Minimum design concentration
IG01	37.5%	48.8%	29.2%	38.0%
IG100	33.6%	43.7%	31.0%	40.3%
IG541	33.8%	43.9%	28.1%	36.5%
IG55	32.3%	42.0%	29.1%	37.8%

氩气系统检验报告

IG01 Fire Fighting System Certificate



氮气系统检验报告

IG100 Fire Fighting System Certificate



氮气和氩气混合系统检验报告

IG55 Fire Fighting System Certificate



混合气体系统检验报告

IG541 Fire Fighting System Certificate



EI High Pressure CO2 Fire Fighting System

EI 高压二氧化碳灭火系统

系统介绍

System Introductions

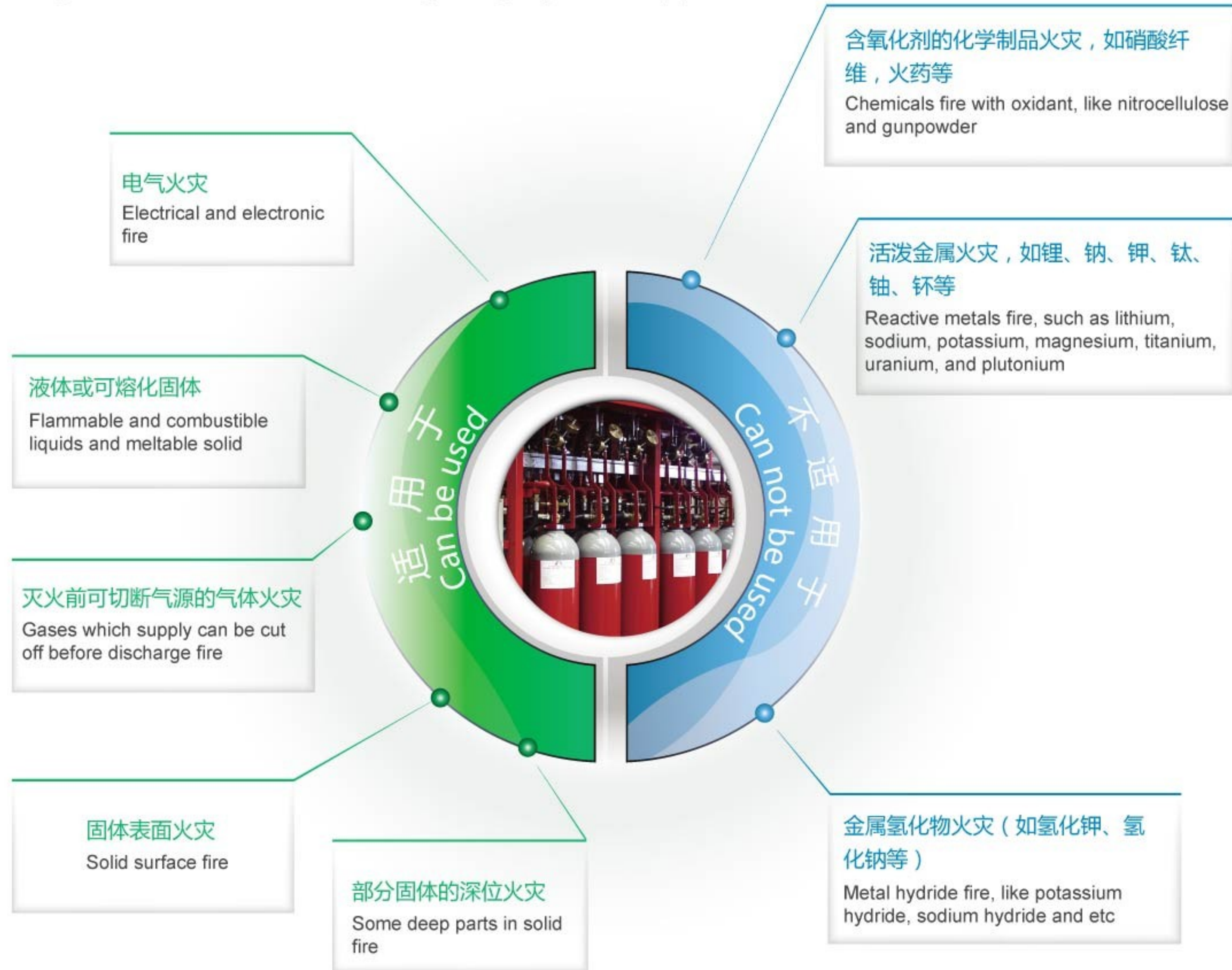
- ★ 高压二氧化碳灭火系统，采用液态二氧化碳作为灭火剂，二氧化碳储存于70L钢瓶中，环境温度为20℃时，储存压力为5.5MPa；二氧化碳灭火系统的工作温度为0至49℃，工作压力为15MPa，喷放时间为60秒。
- ★ 灭火方式可设计为全淹没式或者局部应用式高压二氧化碳灭火系统。根据防护区需要，系统型式可设计使用单元独立式系统或者组合分配式系统。
- ★ 高压二氧化碳灭火系统不能助燃，可快速气化，同时，二氧化碳可使环境温度急剧下降，显著增强了二氧化碳的灭火效果。



- ★ In high pressure CO2 fire fighting system, liquid CO2 is stored in 70L cylinder as extinguishing agent. The storage pressure is 5.5 MPa, in 20 ℃. The working temperature for CO2 fire fighting system is 0 to 49 ℃, working pressure is 15MPa, and discharge time is 60s.
- ★ CO2 fire fighting system can be designed as total flooding system or local application system. According to the protection zone needs, single system and distribution system can be made.
- ★ CO2 does not support combustion, causing a strong drop in temperature, a factor which increases the extinguishing effect of CO2 remarkably.

高压二氧化碳灭火系统适用性

High Pressure CO2 Fire Fighting System Applications



技术参数

Technical data

高压 CO2系统参数 High Pressure CO2 Fire Fighting System			
容器容积 Cylinder volume	70L	工作温度 Working temperature	0°C ~ 50°C
储存压力(20°C) storage pressure	5.7MPa	最大充装密度 Maximum agent filling density	0.6kg/L
最大工作压力(50°C) max working pressure	12.4MPa		
电源电压 Power supply	DC24V	喷放时间 Discharge time	< 60S

安全提示

Safety notice



特点及适用场所

Characteristics and applications



适用于计算机房、图书馆、档案馆、通讯机房、博物馆、飞机库、船舱、油库、静电油漆、煤粉仓、燃气轮机等重要场所。

Suitable for computer rooms, libraries, archives, telecom rooms, museums, hangars, marine ships, oil depots, paint, pulverized coal bunkers, gas turbines and etc.

高压二氧化碳灭火系统 —— EI独特优势

High Pressure CO2 Fire Fighting System —— EI Uniqueness

★ ODP=0

无色无味、不导电、无腐蚀，不破坏臭氧层。

Colourless ness and tasteless ness, non-deductive, non-corrosive, no damage to Ozone Layer

★ 启动装置 Activation device

采用意大利CE认证的电磁阀，直接实现系统自动启动喷放。无需氮气启动瓶组，无需启动紫铜管路。该技术减少启动瓶组设备，节约设备和启动管路安装空间，大大缩短安装周期。

Solenoid valves with CE certification from Italy are used in the system, which can activate the automatic discharge directly, no need to use N2 pilot cylinder or red copper activation pipelines. Since the pilot cylinder and relevant pipelines are saved, more space can be spared for equipment, to shorten installation time as well.

★ CE认证 CE certificate

采用的容器阀、选择阀、电磁阀、信号反馈装置，具有CE认证，优质可靠。

Cylinder valve, direction valve, solenoid valve, pressure switch are CE certified, good quality and reliable

★ 多元设计 More design modes

不同防火需要，不仅可以设计为全淹没式，也可以设计为局部应用式。

Total flooding system or local application system,designed on needs

★ 应急启动 Emergent activation

可以使用机械应急启动，为系统启动的可靠性多增加一重安全保障。

Emergent mechanical activation device, more safety assurance for system activation

检验报告

Certificate



EI HFC227 Fire Fighting System

EI 七氟丙烷灭火系统

系统介绍

System Introductions

★ 七氟丙烷灭火系统的灭火机理较为复杂，主要基于以下三种作用：化学作用，冷却作用，降低氧气浓度。

★ 生理反应浓度：NOAEL=9% LOAEL=10.5%

NOAEL— 无不良反应浓度，观察不到由灭火剂影响产生生理反应的最大浓度。

LOAEL— 有不良反应浓度，能观察到由灭火剂不良影响产生生理反应的最小浓度。

★ 防护区经常有人员出入，设计浓度不超过9%。

★ 防护区不经常有人员出入，设计浓度9%~10.5%时，喷放时，人员1分钟内撤离。

★ 无人员工作的场合，设计浓度可以达到10.5%以上

★ The fire fighting dynamics of HFC227 fire fighting system: chemical actions, cooling effects, decreasing oxygen concentration

★ 生理反应浓度：NOAEL=9% LOAEL=10.5%

NOAEL : no observed adverse effect level

LOAEL : lowest observed adverse effect level

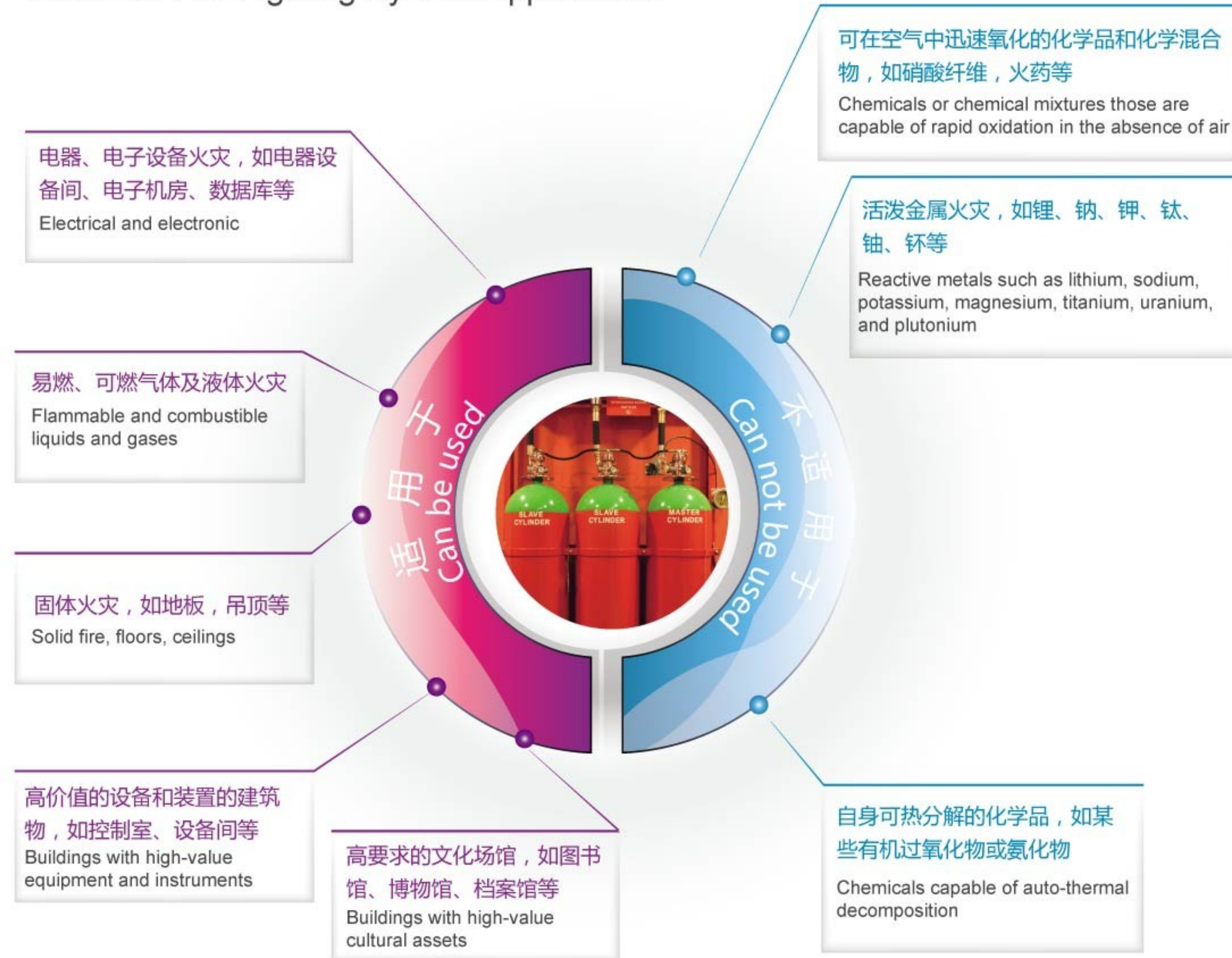
★ People often in protection zones, design concentration not more than 9%

★ People not often in protection zones, design concentration not more than 9% to 10.5%; people leave protection zones within 1 minute

★ No people in protection zones, design concentration not more than 10.5%



七氟丙烷灭火系统适用性 Inert Gas Fire Fighting System Applications



技术参数 Technical data

HFC227 系统 技术参数 HFC227 Technical data					
七氟丙烷灭火系统 HFC227 Fire Fighting System	储存压力(20°C) Storage pressure	最大工作压力(50°C) Max working pressure	工作温度 Working temperature	最大充装率 Max agent filling density	气瓶容积 Cylinder volume
管网式系统 Pipeline system	4.2MPa	5.3MPa/6.7MPa	0-50°C	950Kg/m ³	90L, 120L, 150L
柜式系统 Cabinet system	2.5MPa	4.2MPa	0-50°C	1120Kg/m ³	120L

七氟丙烷灭火系统-EI 独特优势 EI Uniqueness

★ 投资低 Low investment

七氟丙烷设计浓度低，气瓶充装量大，因此，所用钢瓶数较少。初期投资较低。HFC227 design concentration is low, and cylinder gas filling capability is big. Therefore, the cylinders quantity is not large, with a lower initial investment.



★ 时间快 Quick discharge

喷放时间快，在10秒内喷放完毕。discharge finished within 10 seconds

★ CE认证 CE certificate

采用的容器阀、选择阀、电磁阀、信号反馈装置，具有CE认证，优质可靠。cylinder valve, direction valve, solenoid valve, pressure switch CE certified, good quality and reliable

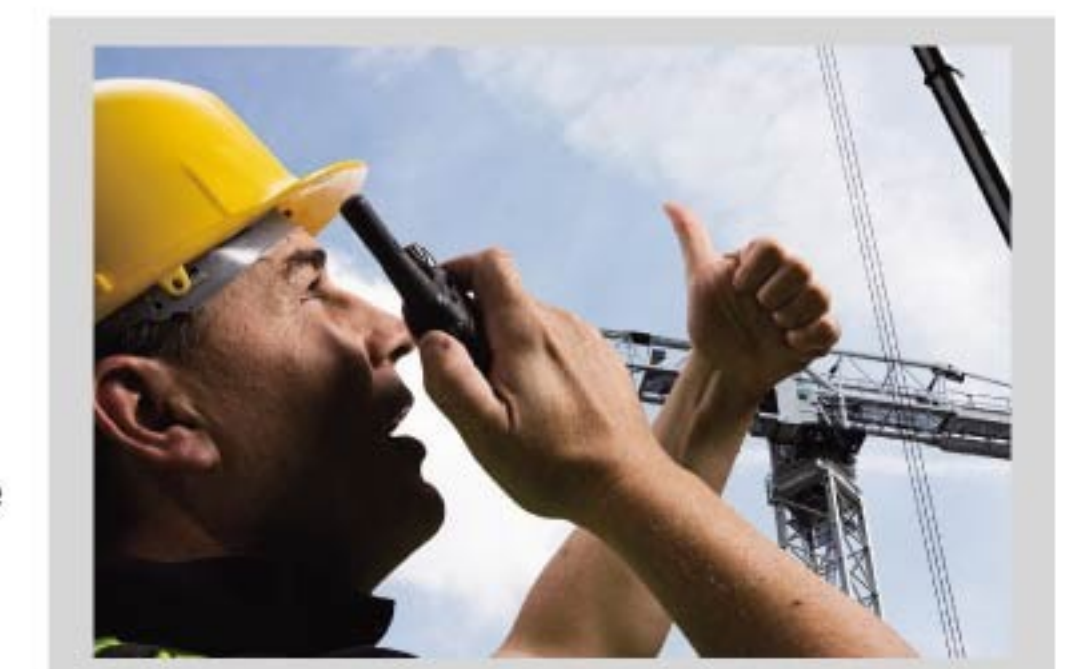


★ 应急启动 Emergent activation

可以使用机械应急启动，为系统启动的可靠性多增加一重安全保障。emergent mechanical activation device, more safety assurance for system activation

★ 安全 Safety

灭火剂无色无味、不导电，喷放后无残留、无腐蚀性。colourless and tasteless, non-conductive, non-corrosive, no remaining substance or residue after discharge



EI 七氟丙烷容器阀优势及工作原理

EI Uniqueness

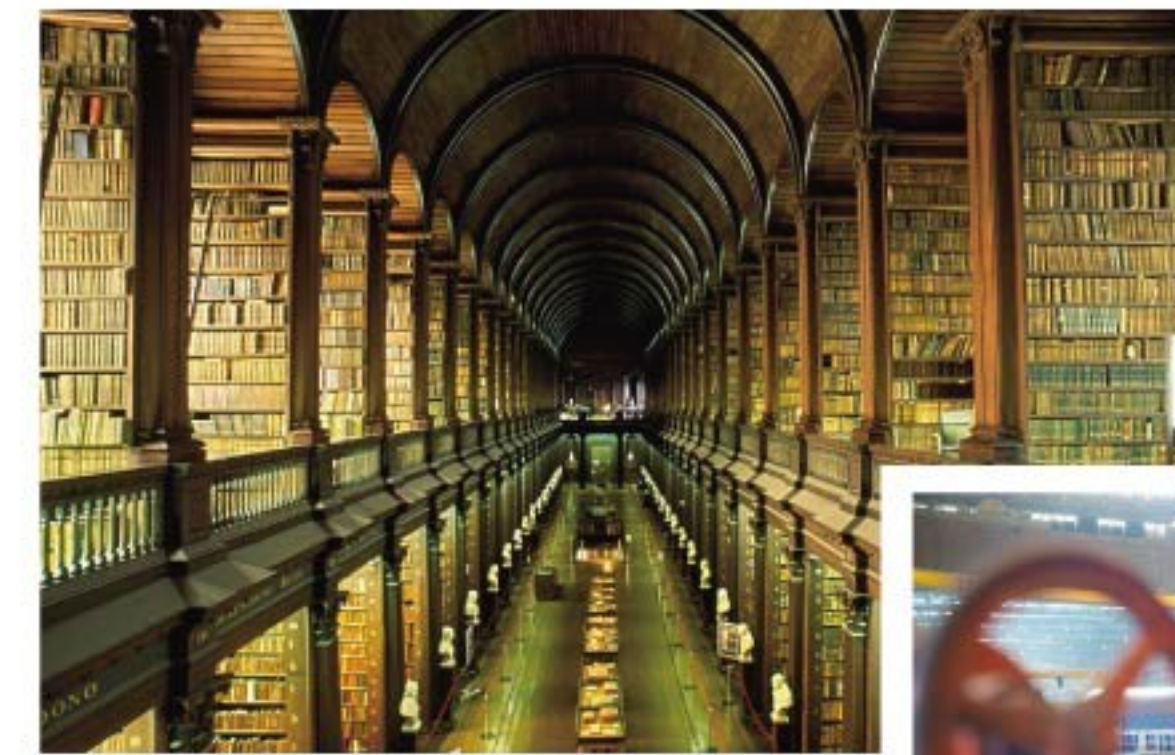
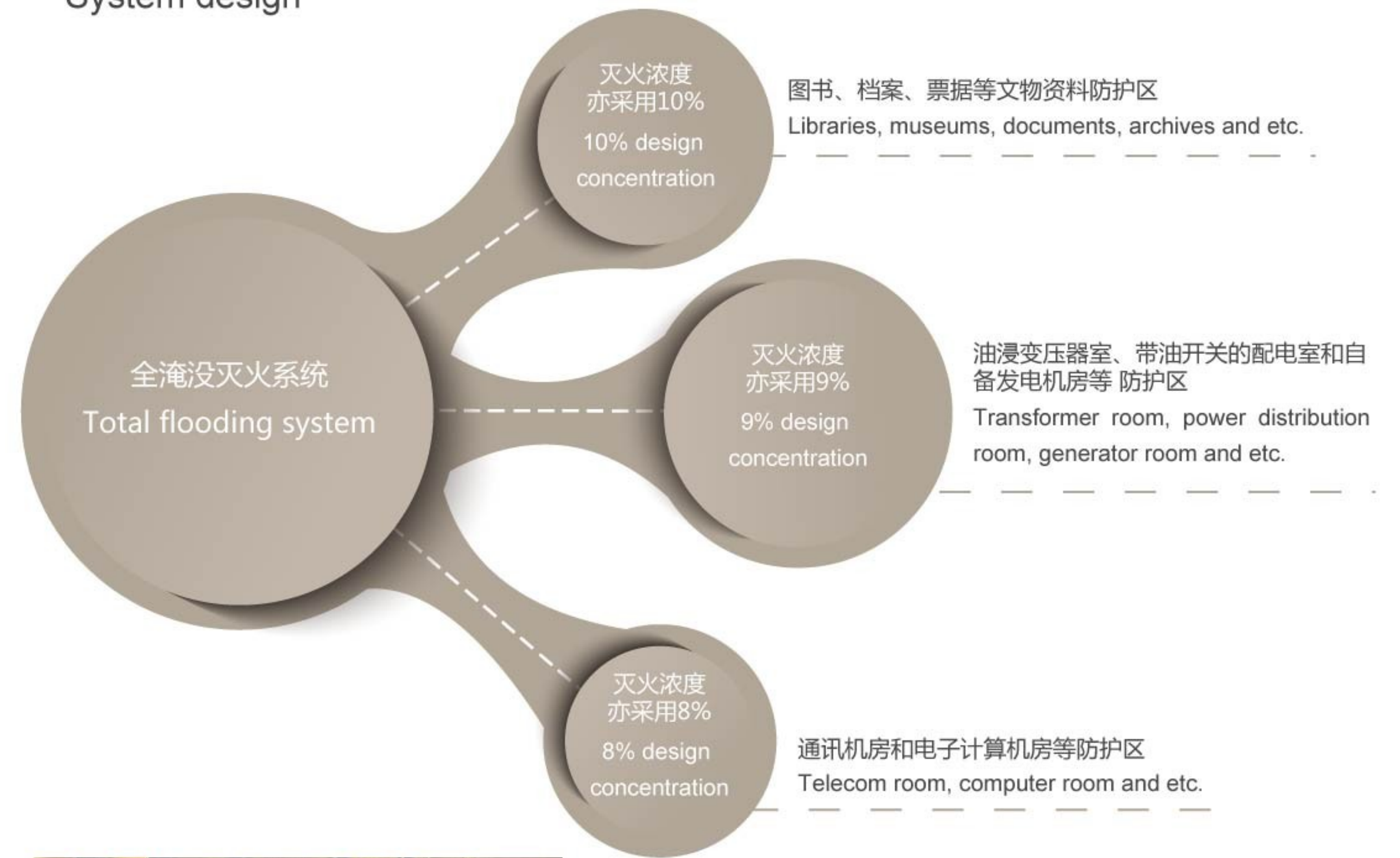
EI 七氟丙烷容器阀，源自意大利技术，阀门性能优异，结构简洁，安全可靠，且阀门上配置有微动压力开关，当气瓶内药剂发生泄漏，钢瓶压力下降超过5%时，该设备能自动报警，将钢瓶泄露的报警信号发送至火灾控制盘。该技术目前处于世界领先地位，使得EI产品的性能更加安全可靠。七氟丙烷容器阀不但具有中国型式检验报告，还具有CE认证。

EI HFC227 cylinder valve are quite safe and reliable, with simple structure and good performance, from Italian technology. The cylinder valve is equipped with a pressure alarm switch; when there is a leakage and pressure drops more than 5%, this pressure alarm switch can send the leakage alarm signal to fire control panel automatically. This is a world wide leading technology, assuring EI products more safe and reliable. HFC227 cylinder valve now is with Chinese certificate issued by TFRI, also CE certified.



系统设计

System design



灌装设备

Production equipment



HFC227灌装机
HFC227 agent filling equipment



HFC227搅拌机
HFC227 mixing equipment

检验报告

Certificate



High Pressure Water Mist System

意大利  高压细水雾系统

系统介绍

System Introduction

- ★ EI MIST高压细水雾系统由EUSEBI IMPIANTI公司自行设计、研发并制造，具有自主知识产权；系统中使用的高压细水雾喷头通过了UL认证。
- ★ 细水雾系统100BAR到120BAR的压力下工作，水雾微粒径小于100微米（NFPA750）。试验证明，细水雾灭火系统可高效、快速灭火。

其灭火原理如下：

冷却作用：由于水雾颗粒非常微小，能够迅速蒸发，吸收大量热量；

惰化作用：由于火灾的高温，大量的水滴将会蒸发汽化变为气体；水蒸气将会发挥如同惰性气体相同的功效，所占据的空间超过液态水占据空间的100倍，这样来控制并压制火灾。

隔离作用：隔离火源对周围的热辐射，防止火源附近其他货物被引燃，使火势不能肆无忌惮的扩散蔓延。

- ★ EI MIST high pressure water mist system is designed, developed and manufactured by Eusebi Impianti, with independent intellectual property rights. The water mist nozzles are UL listed.
- ★ The high pressure water mist system working pressure is between 100 bar and 120 bar; the diameter of the water mist droplets is less than 100µm (NFPA750). Proved by fire fighting tests, high pressure water mist system can put out the fire effectively and rapidly.

The fire extinguishing dynamics:

Cooling action: the water particles, as a consequence of their very small size, are subject to rapid evaporation, with the consequent strong removal of a large quantity of thermal energy from the fire.

Inerting action: the huge quantity of water vapour generated due to the high temperatures and very small droplets, behaves just like an inert gas and, since it occupies a volume that is a hundred times greater than that of the parental extinguishing water, it helps to control and suppress the fire.

Shielding action: Shield the thermal radiation from the fire, and prevent other surrounding goods from combustion, so that the fire can not be spread and within control.



EAMist **独特优势**
Uniqueness

★ **绝缘好 Non-conductive**

将来自于灭火介质所带来的损失降至最小，使用去矿物质水作为灭火介质，不导电
Minimize the damage caused by the extinguishing agent, demineralized water as agent, not conduct electricity

★ **环保 Environmental friendly**

用水量小，无污染，无腐蚀，环境友好型产品
Small water volume used, neither pollution nor corrosion, friendly for environment

★ **维护方便 Easy maintenance**

系统所使用的管路规格尺寸小，易于组装和拆卸，维护方便。
Pipelines sizes are small, easy to assemble and disassemble

★ **减少成本 Cost saving**

减少使用大型水塔、水泵等大型消防设施，减少成本。
Eliminate the cost of large water storage tanks and pressure pumps

★ **适用广范 Wide application**

不仅适用于封闭式空间的防护，也可用于开放式空间的保护。
Can be used in both closed protection zones and open areas

EAMist **独特的水雾喷嘴**
Unique Water Mist Nozzles

★ EI-MIST高压细水雾喷头是由Eusebi Impianti公司自行设计、研发、制造的，处于世界领先水平，能够与EI-MIST高压细水雾系统精密配合，发挥最佳灭火效果。

★ The EI-MIST high pressure water mist nozzles are designed, developed and manufactured all by Eusebi Impianti, technically leading all over the world; EI-MIST nozzles work perfectly well with EI-MIST high pressure water mist system, helping the system to achieve best fire fighting protection effects.

★ 水雾颗粒直径：系统工作压力100BAR~120BAR，水雾微粒径小于100微米（NFPA750）由于水雾颗粒非常微小，能够迅速蒸发，吸收大量热量；

★ Diameter of water mist particles: system working pressure 100 bar to 120 bar, diameter of water mist particles less than 100 μm (NFPA750), the water particles, as a consequence of their very small size, are subject to rapid evaporation, with the consequent strong removal of a large quantity of thermal energy from the fire.

★ 喷嘴已通过UL认证

★ Water Mist Nozzles are UL listed.



闭式喷嘴
Close nozzle



开式喷嘴
Open nozzle

EAMist **零部件**
components

EI-Mist高压细水雾系统及其零部件组件是由Eusebi Impianti自行设计、研发、试验和制造的，为了使细水雾系统的安装维护与灭火效能达到最优，Eusebi Impianti投入巨大资金与人力，与不锈钢生产商、管材管件制造商一同开展了大量的性能试验，优化不锈钢配方，提升生产工艺，使得EI-Mist高压细水雾系统中所使用的管网与组件，不仅能够充分满足系统工作的各项要求，也为系统的安装、调试、维护创造了大量便利。

EI-Mist High Pressure Water Mist System and its components are completely designed, developed, tested and manufactured by Eusebi Impianti, in order to achieve the best fire fighting effects and make installation and maintenance much easier. Having invested a lot of money and human resources, Eusebi Impianti, stainless steel manufacturers and water mist system pipelines and fittings manufacturers do large quantity of tests and experiment, optimize the stainless steel recipe, and better the manufacturing processing methods; all those efforts not only make the EI-Mist pipelines, fittings and components fully meet the working requirements of the system, but also bring a lot of advantages and conveniences in the system installation, commissioning and maintenance.



零部件技术特点：

EI-MIST components technical characteristics:

★ 螺纹丝扣连接 Threaded connection between components

不锈钢管网、集流管、喷头接口、高压细水雾喷头的连接，均采用螺纹丝扣连接，密封性能优异，无需使用工业胶。

Stainless steel pipelines, manifolds, sockets, nozzles are connected by threaded connections, with good seamless performances, no need to use industrial glue.

★ 90度弯折 90° bending directly, no elbow

EI-Mist高压细水雾系统使用的不锈钢管网直径小，易于在狭小密闭空间中安装，节省空间；安装过程中无需使用弯头，可以直接将不锈钢管弯折90度使用，节约管件用量，减少安装时间，降低安装难度，减少系统潜在的泄露点数量。

The diameters of stainless steel pipelines used in EI-Mist High Pressure Water Mist System are quite small, easy to install them in narrow and sealed rooms, saving a lot of spaces. In the installation, no need to use elbows, and the pipelines can be bended directly. Fittings are saved, installation time is reduced. Much easier for installation, the quantity of potential leakage points are limited.

★ 螺旋型管网设计 Spiral pipeline design

用于天花板安装的独特螺旋型管网设计，具有良好的伸缩性，能够顺利与天花板高度无缝契合。

Special spiral pipeline structure is designed for ceiling nozzles installation. Easy adjustment for the spiral structure assures the nozzles installation to perfectly stay at the same height with the ceiling.

★ 独特的喷头接口设计 special structure design for socket

不锈钢喷头接口采用独特的设计和内部结构。安装喷头后，接头内部保持常开状态，保证系统的正常运行。卸下喷头后，喷头接口关闭。在管网压力试验中，无需安装堵头，省时省料。拆卸高压细水雾喷头进行检修维护时，无需担心管网内的蒸馏水从喷头处泄露，易于维护。

The socket, used for connecting nozzles, is designed with special inner structure. When nozzles are installed, the socket is open and system can work properly. When nozzles are disassembled, the socket goes closed. So that in the pressure test for the pipelines, there is no need to install nuts to block the nozzles connections, saving time and materials. No need to worry about water leakages coming from the pipelines when disassembling the nozzles and doing the system maintenance.



产品型式

System types



EI MIST瓶组式高压细水雾系统

EI MIST high pressure water mist self contained system

★ EI MIST瓶组式高压细水雾系统

EI MIST high pressure water mist self contained system

该系统包括充装有200bar压力的氮气瓶以及蒸馏水瓶。空气压缩机使得整个管网处于压力之中。当系统处于准工作状态时，蒸馏水只储备在高压钢瓶内，以防止水从管网系统泄漏。

因此，该系统也可以安装用来保护各类机械设（例如电力柜，数字设备，变压器等等）。

有火灾发生时，环境温度达到57摄氏度时，闭式喷嘴上的热敏感球将会破裂。系统管网内部的压力下降，低压开关立即开启，从而启动水 / 氮气储存装置的电磁阀开关，系统开始灭火。

The system consists in cylinders filled with Nitrogen at 200 bar and cylinders filled with demineralized water. A pressurized air compressor keeps the discharging piping net under pressure. When the system is in stand-by, the water is only inside the cylinders in order to avoid leakage in the piping network, therefore the system can also be installed in protection of particular equipments (like electrical cabinets, DECs, transformers and etc.).

优势：

价格优势
较小的电力消耗
高安全性，避免错误报警

Advantages:

-Low-cost
-Minimal consumption of electricity
-Safety against false alarms



EI MIST泵组式高压细水雾系统
EI MIST high pressure water mist pump unit system

★ **EI MIST泵组式高压细水雾系统**
EI MIST high pressure water mist pump unit system

系统包括至少一台以上的高压泵组，装配于专用支架上。
在泵组系统的上方安装有集流管，集流管中设置有单向阀。管路中的压力调节阀，能够保证多余的水不进入管路，并回流到储水水箱中，使得水流流量总是与集流管流量相匹配。当整个系统处于待机状态时，管路中从泵组到喷嘴都充满去矿物质水。当火灾发生时，喷嘴处的热敏感球破裂，导致管路内压力下降，低压开关会立即启动，一个或者多个高压水泵将会开始工作。

The pressurizing system consists of at least one high-pressure pump fitted on a self-supported skid. The water is transported from the pump by means of a check valve in the manifold at the top of the pumping system. A pressure regulation valve, which regulates the excess water by carrying it back to the back-up tank, is fitted to this manifold. When the whole system is at rest, the water is present in the entire network with intact discharge nozzles. A possible fire can cause the bulb of the discharge nozzle to break and the decrease in the system's pressure will be signaled immediately by the low pressure switch, which allows one or more high pressure pumps to start.



民用及公共建筑领域

Civil and public architectures and buildings

地铁列车及车站、公路铁路隧道、机库、档案馆、图书馆、酒店、历史文化建筑、办公楼、仓库、计算机房、电信机房等；

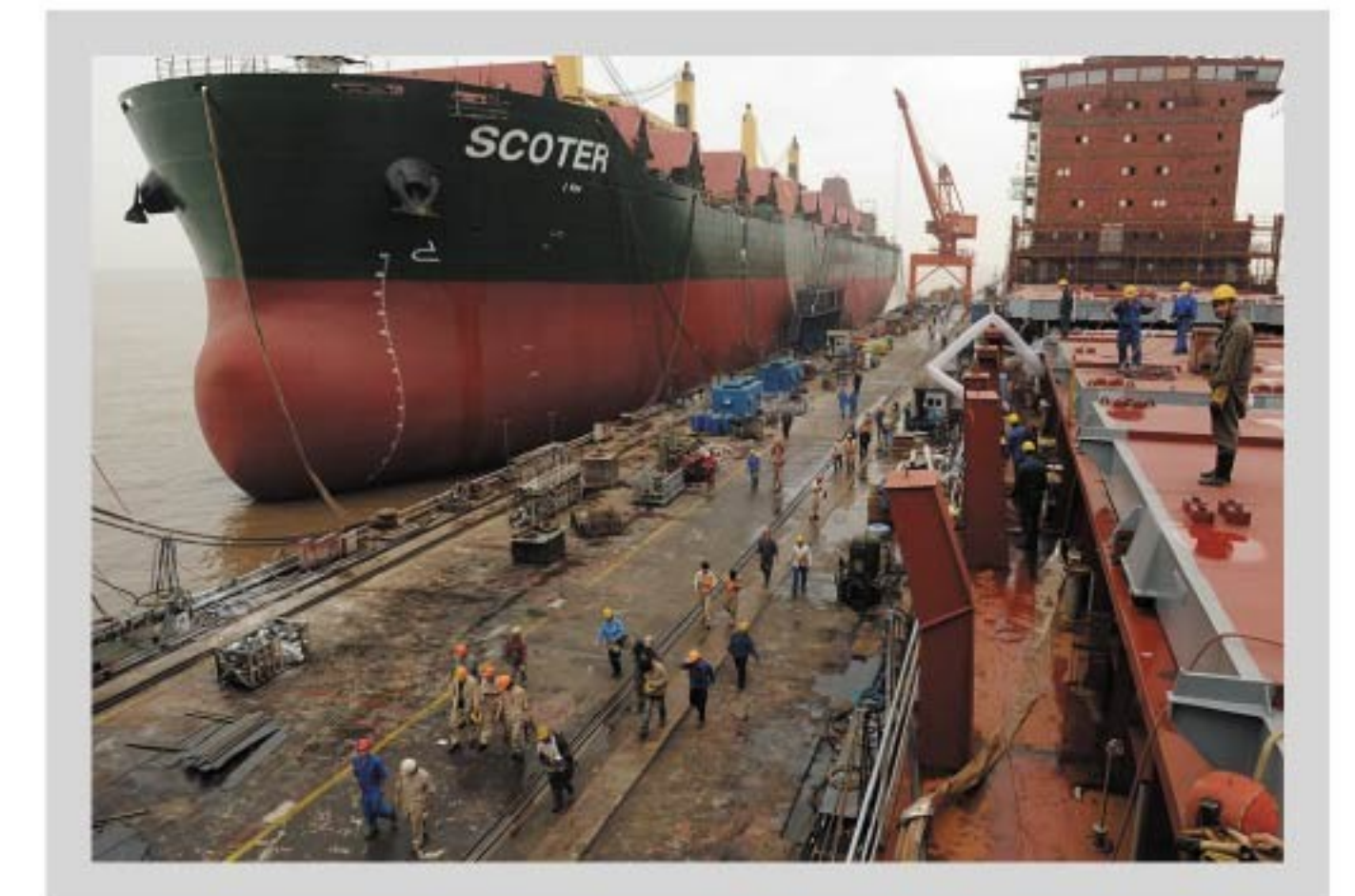
subway carriages and stations, road and railway tunnels, hangars, archives, libraries, hotels, historical & cultural architectures, office buildings, warehouses, computer rooms, telecom rooms and etc.

船用领域

Marine application

军舰、油轮、渡轮、货轮、帆船游艇、海上平台等；

military ships, tankers, ferries, cargo ships, sailing yachts, offshore platforms



工业及能源领域

Industrial and power application

涡轮机、柴油发电机、石油石化、机器设备间、变压器、开关设备间、线缆隧道等。

turbines, diesel generators, oil and petro-chemical, machinery equipment rooms, transformer rooms, switches equipment rooms, cables tunnels and etc.



EI MIST高压细水雾系统已经取得了以下认证

The EI MIST HP fire extinguishing system testing has been carried out by

- SP瑞典火灾防护国家测试研究实验室
- SP Swedish National Testing and Research Institute for Fire Protection

- VNIIP全俄罗斯火灾防护研究所
 - VNIIP All Russian Institute for Fire Protection
- 以上的研究所均是EGOLF欧洲火灾测试检测认证组织的成员机构。

The above institutes are members of EGOLF the European Group of Organization for Fire Testing, Inspection and Certification.

在这些实验室中，EI公司的工程师按照以下的国际标准进行了相关的测试，EI高压细水雾系统完全符合相关的国际标准：

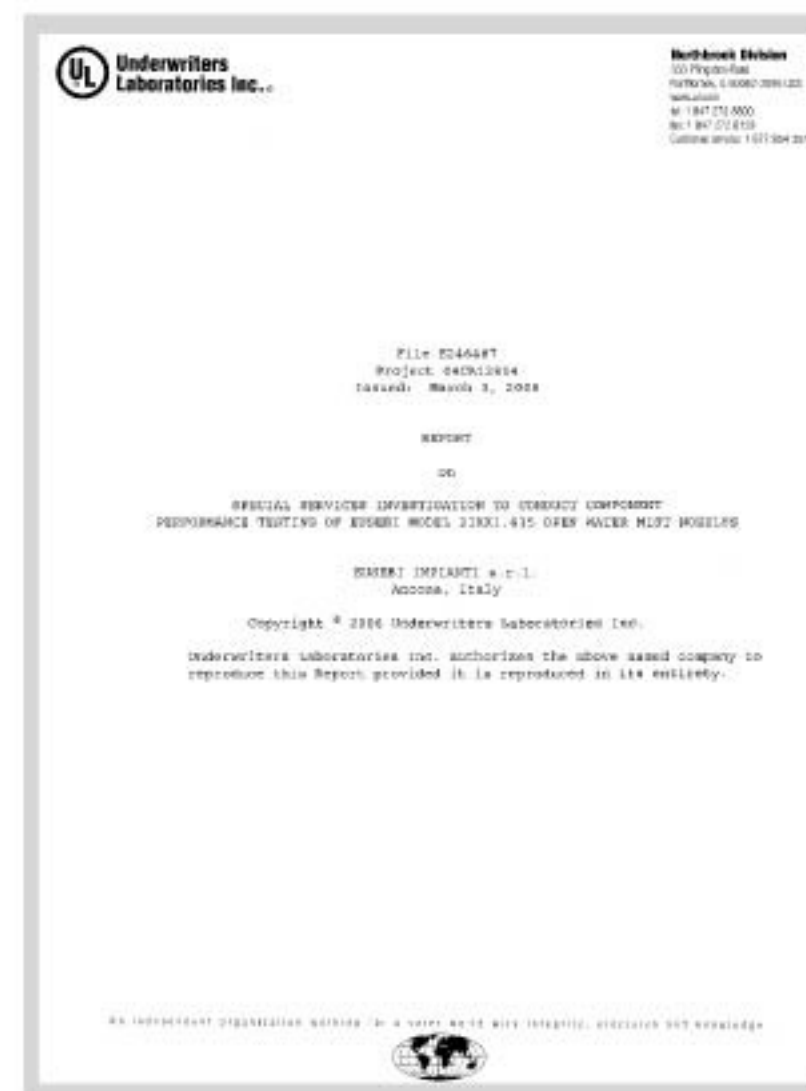
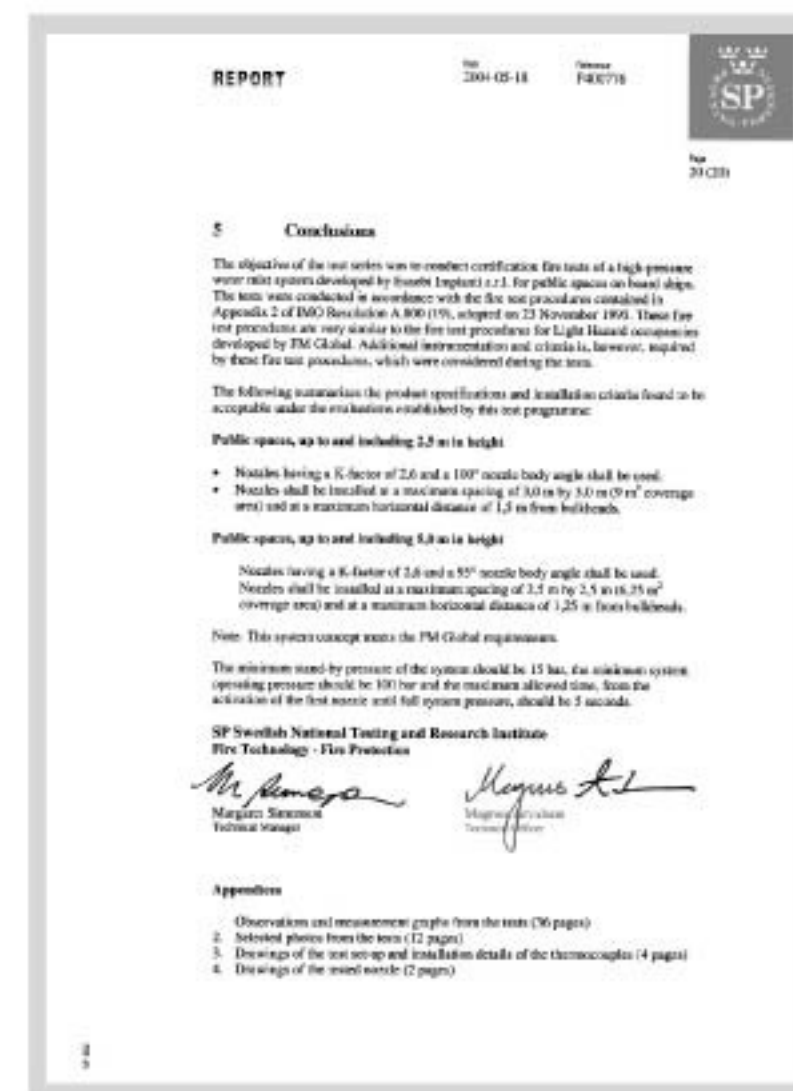
In these laboratories, Eusebi Impianti s.r.l. engineers, carried out several type of tests following the international protocols. The EI MIST HP complies with:

- NFPA 750
- IMO 913, A800 and IMO/CIR. 1165
- FM Standard Appendix G and H

EI细水雾系统还取得了BV(Bureau Veritas)认证。
The EI MIST HP is certified by BV (Bureau Veritas).

系统所采用的喷嘴也通过了UL认证，在文物古迹和电缆方面也通过了RINA的相关测试。EI高压细水雾系统的雾滴属于I类细水雾雾滴的直径小于100微米，同时适用于A类火灾（固体燃烧物火灾，如纸张、木材等）以及B类火灾（液体燃烧物火灾，如原油，汽油，碳氢化合物等等）。

The spray nozzles have been tested following the UL standards and it was performed tests for archives and electrical cables by RINA Industry. The system is classified as class I (droplets size less than 100 microns) and also suitable for extinguishing Class A fires (solid combustibles such as paper, wood, etc.) and Class B fires (liquid combustible such as crude, oils, hydrocarbons, etc.).



EI MX 1230 Fire Fighting System

EI MX 1230灭火系统

Efficient -Fast - Smooth - Clean
高效-快速-顺畅-洁净

Extinguishes without leaving any residue
灭火无残留

系统介绍

System Introductions



★ Eusebi Impianti生产的EI MX 1230灭火系统采用Novec™ 1230液体作为灭火药剂。EI MX 1230系统在防护区内的喷放时间极短（不超过10秒），灭火效率极高。灭火剂本身无毒无害，灭火后无残留，所需的存放空间小。

★ 灭火药剂Novec™ 1230
Eusebi Impianti生产的EI MX 1230灭火系统采用Novec™ 1230液体作为灭火药剂。EI MX 1230系统在防护区内的喷放时间极短（不超过10秒），灭火效率极高。灭火剂本身无毒无害，灭火后无残留，所需的存放空间小。

★ 灭火药剂Novec™ 1230可用于防控A类火灾和B类火灾，全淹没式系统采用的灭火药剂。无腐蚀性，也不导电，因此不会对珍贵的数据资料和电器元件带来短路问题，灭火后也无残留。无色，几乎无味，在室温状况下呈气态。分子式中包括碳元素、氟元素和氧元素。灭火药剂Novec™ 1230能够大量吸取燃烧产生的热量，从而中断燃烧反应。

★ Eusebi Impianti Srl is proposing EI MX 1230 fire extinguishing system using 3M™ Novec™ 1230 Fire Protection Fluid. It is characterized by its fast flooding of the room (< 10 seconds) and its highly extinguishing efficiency. The extinguishing agent itself is toxicologically harmless; it extinguishes without leaving any residue and gets along with a small storage volume.

★ The extinguishing agent Novec™ 1230

The fire extinguishing agent Novec™ 1230 acts both physically and chemically. Novec™ 1230 is widely used throughout the world and thanks to its environmental properties it has become established in many countries as the extinguishing agent for manageable IT and electrical risks.

★ Novec™ 1230 is suitable for class A and class B fire and is used as total flooding agent. It is neither corrosive nor electrically conductive and therefore causes no damage through short circuits or through residues left on sensitive components. It is colourless and almost odorless and is in gaseous form at room temperature. Its molecules consist of carbon, fluorine and oxygen. Novec™ 1230 deprives the flames of heat, thus interrupting the combustion reaction.

★ 无毒性反应浓度10%

观察不到由灭火剂毒性影响产生生理反应的灭火剂最大浓度

★ 有毒性反应浓度>10 %

能观察到由灭火剂毒性影响产生生理反应的灭火剂最小浓度

★ NOAEL 10 % by volume

(no observed adverse effect level) The highest extinguishing gas concentration in % by vol., at which no detriments to health have been observed)

★ LOAEL >10 % by volume

(lowest observed adverse effect level). The lowest extinguishing gas concentration in % by vol., at which detriments to health have been observed)

★ Chemical formula 化学分子式 : CF₃CF₂C(O)CF(CF₃)₂

Specific weight 比重(20°C) : 1.6 kg/l

State of aggregation 状态 : Liquid液态 (at 25 0C /1.013 bar)

Boiling point 沸点 : 49.2°C (1.013 bar)

Environmental properties 环境特性 :

No ozone depletion potential (ODP 0) 臭氧消耗潜值为0

Low global warming potential (GWP I) 全球变暖潜值为1, 较低

Atmospheric lifetime <5 days 在大气中存在的时间短, 不超过5天



EI MX 1230灭火系统的优势

Advantages for EI MX 1230 Fire Fighting System

- ★ 非常高的环境相容性, 无污染无残留
Very high environmental compatibility
- ★ 洁净气体, 在将来的使用中受到3M™ “蓝天计划” 的保护
An extinguishing agent where its use in the future is protected by the 3M™ "Blue Sky Warranty"
- ★ 通过使用EI MX1230计算软件进行优化的系统设计
Optimized system design by using professional EI MX1230 calculation software
- ★ 坚固耐用的设计, 安装与维护的成本低
Robust design, so low installation and maintenance costs
- ★ 灭火效果极快
Rapid extinguishing effect
- ★ 绝对安全, 可用于人员工作的场所
Exceedingly safe for use in occupied areas
- ★ 无灭火剂残留, 无腐蚀性、不导电
No extinguishing agent residues, neither corrosive nor electrically conductive
- ★ 工作压力较高, 可以支持较长的管网, 可以用于多个保护区的防护
Higher operating pressure possible than comparable systems, so longer pipe works and multi-zone systems can be achieved
- ★ 结构紧凑, 节省空间
Compact and space-saving
- ★ 系统通过德国VdS认证
Approved system (VdS)
- ★ 世界范围内广泛认可、推广商用的灭火药剂
World-wide recognized and approved extinguishing agent

EI MX 1230系统齐全的规格型号

What you're looking for: EI MX 1230 system types from A to Z

Available cylinder sizes: 22, 25, 40, 50, 80, 100, 140, 180 liters

钢瓶体积 : 22、25、40、50、80、100、140、180升

-Pressure stages available: 25, 42, 50 bar

工作压力 : 25、42、50bar

-Single- or multi-cylinder systems

单瓶组或者多瓶组系统

-Single- or multi-zone systems

单防护区或者多防护区系统

A SHARED OBJECTIVE: ADEQUATELY RESPONDING TO OUR CLIENT'S CONSTANTLY EVOLVING NEEDS

共同的目标： 不断回应并满足客户持续的消防需求

凭借在消防领域的丰富专业经验，Eusebi Impianti能够在各种严酷的环境下提供可靠的消防安全保护。

在石油、天然气和能源领域，Eusebi Impianti为世界各地，甚至许多危险地区的炼油厂、各种发电厂、天然气输送管道、石油钻塔等提供着消防安全保护。

针对船舰和海上平台，我们也设计了高效、安全、环保的多种消防解决方案。

Eusebi Impianti的通过工程经验的不断积累与专业技能的持续进步，也能够为众多的军用领域提供消防保护，Eusebi Impianti为意大利和众多的其他国家提供消防服务，保护着国际航运船队、机库、坦克和潜水艇。

公司持续多年进行新技术研发，针对历史古迹、博物馆、古建筑和教堂形成了成熟的消防解决方案，能够同时保护人员、古建筑结构和建筑内众多珍贵文物，确保其免受火灾威胁。

石油与天然气
能源
船舰与海上平台
工业
民用建筑
历史建筑

Thanks to its substantiated experience in the field of fire fighting, Eusebi Impianti guarantees a fire safety service in heterogeneous circumstances.

In the oil, gas and energy fields Eusebi Impianti can offer high-tech fire protection to refineries, any type of power plant, gas pipelines and oil rigs situated all over the world, even in dangerous areas.

We have designed efficient, safe and eco-friendly firefighting options for the maritime and offshore fields.

Our experience and expertise have enabled Eusebi Impianti to also develop technologies for military applications, from Italian and international maritime fleets to hangars, tanks and submarines.

For years the company has been regularly investing in the development of new technologies for the protection of historical edifices, museums, ancient buildings and churches, in order to contemporaneously guarantee the safety of persons, structures and goods of great worth.

- Oil & Gas
- Energy
- Marine & Offshore
- Industrial
- Civil site
- Historical site

EI Fire Fighting Equipment Application

EI 消防设备领域应用

民用及公共、古迹建筑领域

Civil, public and historical buildings applications



阿拉木图国际机场
Alma-Ata International Airport, kazaestan

EI集团为阿拉木图国际机场提供全部的消防设施和探测设备。
EI provide the complete fire fighting systems and fire detection system



意大利威尼斯
CASAGREDO 酒店

CASAGREDO Hotel, Venice, Italy

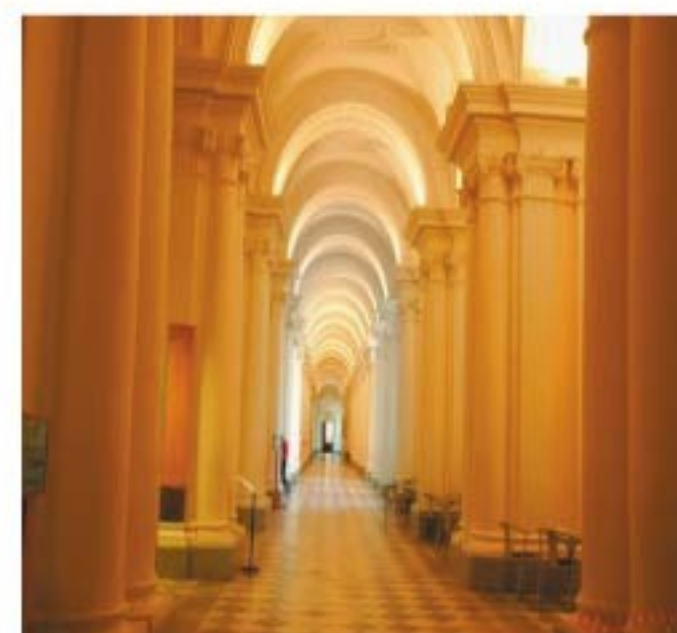


米兰IBM运营中心
IBM Operation Center, Milan, Italy



ENI公司米兰总部
ENI Company, Milan headquarter

EUSEBI系统公司在古迹建筑、博物馆、古宅以及教堂消防作了很多投入，在这些场所需要重点保护的不仅是其中的人们，而且还有价值巨大的建筑和藏品
Fire fighting systems supplied by Eusebi Impianti are protecting a lot of historical buildings, fighting against the fire risks that threat to people's lives, and also preventing the valuable cultural relics and buildings from fire threats.



EI Fire Fighting Equipment Application

EI 消防设备领域应用

工业及能源领域

Industrial and power applications



涡轮机组 Turbines

许多工厂,库房,物流中心以及工业设施都采用EUSEBI公司所生产的消防系统保护。在这些区域通常有大量的人员在工作,因而必须有高效的消防系统。

Eusebi fire fighting systems are in a lot of plants, warehouses, logistic centers, and industrial facilities, where many people are working, and they need highly effective fire fighting protections.



意大利EDI电站
EDI Power Plant, Italy

意大利TORVISCOSA
电站的全部消防系统
TORVISCOSA Power
Plant, all the fire fighting
systems, Italy



意大利TURBIGO电站
的所有防火系统。
TURBIGO Power Plant,
all the fire fighting
systems, Italy



油田领域

Gas and oil field applications

今天许多航行在世界各海域的船只都EUSEBI系统公司灭火系统的保护。基于其丰富的经验,EUSEBI系统公司无疑是能够最为完善的为各类船舶提供消防系统的公司之一。



Large quantities of ships which are in the seas and oceans all over the world are being protected by Eusebi fire fighting systems. With rich experiences, there is no doubt that Eusebi Impianti is one of the most capable companies that supply complete marine fire fighting systems to all kinds of ships.



意大利海军加富尔号航母
Aircraft Carrier Cavour,
Italian Navy

EI是RINA认证的意大利海
军消防产品供应商。
EI is RINA certified.



伊朗南部4&5区
Iran South Area 4 & 5

EUSEBI系统公司向世界上最重要的油气产区供应消防产品,提供消防保护。这些客户为沙漠里的炼油厂,或者是穿越沙漠的天然气管道,需要的是高新技术的灭火系统。

Eusebi Impianti is protecting the most important and largest gas and oil fields all over the world. The clients needs to protect their refineries in the deep deserts, or the natural gas pipelines going through deserts; to protect those fields, high technical fire fighting products and services are a must.



莫斯科—俄罗斯 莫斯科塔

EI-MIST高压及低压细水雾系统对Ostankino电视塔进行了全方位的消防保护，该电视塔高540米，是欧洲最高的建筑，同时名列世界高塔前五位；不幸的是在2000年8月，高塔曾经历了一场严酷的火灾。

EI-MIST细水雾系统对所有的服务管路和通信线缆隧道进行了保护，同时也保护诸如办公室、会议室以及观景台等公共空间，以及设备控制间、仓库等。

电视塔内所有的内部消防栓系统也是使用EI-MIST消防水龙，使用去矿物质水作为灭火介质。

Moscow - Russia MOSCOW TOWER

The EI MIST® high and low pressure water mist system protects the Ostankino TV Tower which, at 540 meters, is the tallest in Europe and one of the five tallest in the world, and which suffered a dreadful fire in August 2000.

The EI MIST® system safeguards all the service ducts and technical tunnels, the public areas such as offices, meeting rooms and the observation site, as well as the engineering rooms and warehouses.

The inner fire hydrant network is also based on the EI-Mist Hose Reel® using vaporized water.

米兰-意大利 摩天大楼

Eusebi Impianti s.r.l.对Palazzo Lombardia摩天大楼进行了全方位的消防保护，意大利伦巴第大区的政府总部及各类机构均在该大楼内办公。

大楼内防护的区域包括：26000平方米的地下停车场，采用水喷淋灭火系统和消火栓进行保护；6500平方米的档案室和1500平方米的设备间使用IG惰性气体灭火系统进行保护；560平方米的图书馆采用Novec1230进行保护；整个大楼的玻璃幕墙及幕墙后的反光挡板通过使用EI-MIST高压细水雾系统，实现了各防护区的有效隔离；楼顶的直升机停机坪则是采用泡沫系统进行保护的。

Milan - Italy PALAZZO LOMBARDIA

Eusebi Impianti has fully protected Palazzo Lombardia, Lombardy's regional committee headquarters which includes the presidency and the whole department body.

The Area is comprised of over 26,000 square meters of underground parking, which is protected by sprinklers and fire hydrants, 6,500 square meters of archives and 1,500 square meters of equipment rooms which are protected by inert gaseous systems, 560 square meters of libraries protected by the Novec™ 1230 systems, partitioning of the climatic walls with the EI Mist® system and a heliport with foam systems.



多功能导弹护卫舰

Eusebi的EIMX® 1230灭火系统使用Novec™ 1230灭火药剂对FREMM多功能导弹护卫舰进行消防安全保护。FREMM多功能导弹护卫舰是新一代的护卫舰舰型，是由意大利和法国共同合作开展的项目，其中Carlo Bergamini号导弹护卫舰就是已经完成的新一代护卫舰的代表舰艇。

EIMX® 1230灭火系统使用Novec™ 1230灭火药剂保护所有的电气设备间，为精密复杂的作战设备、导航设备和航行设备等提供可靠安全的保护。

FREMM

The Eusebi EIMX® 1230 systems which utilize Novec™ 1230 safeguard FREMM (Multi-Mission Frigate) ships, an abbreviation classifying a new generation frigate, which was constructed as a joint Italian-French project and features a completed prototype in the futuristic Carlo Bergamini.

The EIMX® 1230 systems using Novec™ 1230 fluid protection all the electrical rooms, such as those allocated to the maneuvering of sophisticated combat, navigation and sailing equipment.

F590





Kashagan石油项目—哈萨克斯坦 阿吉普国际财团

Eusebi Impianti的消防系统为Kashagan油田项目提供消防安全保护。Kashagan油田，位于哈萨克斯坦阿特劳港东南80公里处，是过去三十年间全世界最重要的发现之一。为保护巨大而重要的Kashagan油田项目，在石油行业采用了最先进的技术解决方案。直升机停机坪采用Eusebi泡沫系统进行保护，在设备间则采用气体灭火系统进行保护。

Eusebi的各类固定式灭火系统在陆上和船上的各种场所均可应用，提供安全可靠的消防保护。

Kashagan - Kazakhstan AGIP KCO

Eusebi Impianti systems protect the immense Kashagan field, 80 km south-east of Atyrau (Kazakhstan), which is believed to be one of the greatest discoveries in the world in the past thirty years. The technological solutions adopted for the giant Kashagan oilfield are among the most innovative ones ever applied in the oil industry. Eusebi Foam systems have been installed to protect helidecks, and gas extinguishing systems for the protection of the equipment rooms.

Eusebi safety and fixed fire fighting equipments are used for the security of the on shore and off shore sites.

米兰—意大利 Turbigo发电厂

Eusebi Impianti为Turbigo发电厂从850MW改造成联合循环电站项目中，提供了各种消防系统进行消防保护。发电厂位于米兰大区的Turbigo和Robecchetto市，占地56公顷。

变压器和油箱采用高压细水雾系统进行保护，二氧化碳灭火系统保护变压器站，燃气轮机采用高压细水雾预作用系统进行保护，在综合控制室和控制设备间采用IG惰性气体灭火系统进行保护。所有的消防灭火系统都由Eusebi Impianti制造的火灾探测报警系统控制。

Milan - Italy TURBIGO POWER STATION

Eusebi Impianti has safeguarded the initial environmental requalification phase of the Turbigo power plant, while it was changed from 850 MW into a combined cycle. The power plant covers an area of 56 hectares and is situated in the territories of the Municipalities of Turbigo and Robecchetto, in the province of Milan.

Water mist systems have been installed to protect the transformers and oil boxes, CO2 systems to protect the MT stations, pre-action systems to protect the turbine bearings, inert gas systems in the control rooms and panel rooms. All the systems are managed by Eusebi Impianti's fire detection systems.

FLEXIBILITY IS THE FOUNDATION OF OUR COMPANY

灵活性是公司的基石

持续的研究和不懈的发展帮助Eusebi Impianti成为值得信赖的合作伙伴，也成为国际国内主要的工程总承包商之一。

每一个项目，从最初的设计阶段直到最后设备安装调试验收阶段，都是由具备丰富消防技术经验的项目经理领导下，带领整个专业团队完成项目的全部工作。

项目经理负责专业团队的整体协调以及项目管理，他们的职责在于保证团队中每一位成员的专业技能和专业精神能够在整个项目周期内以最优化的方式充分发挥。

产品质量、环境保护和技术创新正是Eusebi Impianti区别于其他公司的显著优势。

Eusebi Impianti针对不同的项目和消防需求，提供设计和多种备选消防解决方案，同时对于各类消防应用领域，提供消防保护以及消防安全设备与服务，从项目设计、交钥匙工程直到售后维保。

Eusebi Impianti能够在消防领域提供任何种类的消防产品，能够为任何场所任何情形提供消防安全保障。

- 交钥匙解决方案
- 项目管理
- 项目执行
- 按照国际标准
- 调试与系统启用
- 协助与维护服务
- 在全球范围内提供产品与服务

Intensive research and development has allowed Eusebi Impianti to become a trusted partner with some the main national and international general contractors.

Each project, from the engineering up until the installation of the system, is monitored by a team of experts led by a Project Manager with specific experience in fire fighting techniques.

The Project Manager is responsible for the coordination of a team entrusted with project management, and it is his responsibility to ensure that the professionalism and expertise of each single team member is utilized in the best way possible throughout the entire project cycle.

Quality, environment and technological innovation are the distinguishing characteristics of Eusebi Impianti.

Besides designing and creating fire fighting options to deal with any type of hazard, Eusebi Impianti also provides fire protection and safety for any type of application, from pre-engineering to turnkey supply and maintenance.

Eusebi Impianti offers every type of option in the field of fire fighting, as well as a safety guarantee in every location and every situation.

- Turn key solutions
- Project Management
- Executive projects
- pursuant to international standard
- Commissioning and start up
- Assistance and maintenance services
- Global presence



Reference List in 2008 to 2012

2008-2012 部分工程业绩表

GEORGIA- PACIFIC SRL - GAPAC	供应和安装水喷淋系统和喷淋水泵	意大利	2008
TOO POINT A	低压CO2系统	哈萨克斯坦	2008
THYSSENKRUPP ACCIAI SPECIALI TERNI SPA	供应和安装火灾探测系统和防电弧设备	意大利	2008
FINCANTIERI CANTIERI NAVALI ITALIANI SPA	供应细水雾系统的部件-1	意大利	2008
FINCANTIERI CANTIERI NAVALI ITALIANI SPA	供应细水雾系统的部件-2	意大利	2008
FINCANTIERI CANTIERI NAVALI ITALIANI SPA	供应细水雾系统的部件- 3	意大利	2008
FINCANTIERI CANTIERI NAVALI ITALIANI SPA	供应细水雾系统的部件- 4	意大利	2008
ROSETTI MARINO SPA	CO2系统	克罗地亚	2008
TECNIMONT (EX MAIRE ENGINEERING SPA)	供应消防栓等系统	阿尔巴尼亚	2008
OOO EUSEBI IMPIANTI	供应全部防火系统	俄罗斯	2008
DANIELI & C. OFFICINE	供应CO2和氩气灭火系统	乌克兰	2008
MECCANICHE SPA	供应和安装水蒸气收尘器	意大利	2008
NUOVO PIGNONE SPA	供应二氧化碳系统, 电气设备, 火灾探测器等设备	伊拉克	2008
TECNIMONT SPA	供应全部的灭火系统和火灾探测设备	智利	2008
ILVA SPA - RIVA FIRE SPA	供应和安装水灭火系统	意大利	2008
DELICARTA SPA – SOFIDEL	供应和安装水喷淋系统	意大利	2008
威尔德(北京)香精有限公司	IG01氩气灭火系统	北京-中国	2008
天津社保中心服务器机房及数据中心	IG100氮气灭火系统	天津-中国	2008
山西网络中心机房及数据中心	HFC227七氟丙烷	太原-中国	2008

SAIPEM SPA	供应全部消防系统	卡塔尔	2009
中建六局机房及数据中心	IG100氮气灭火系统	天津-中国	2009
Elplus company	CO2系统	格鲁吉亚	2009
大连华瑞公司	HFC227七氟丙烷	项目地点 瑞士	2009
天津静海电信机房 中国电信静海机房及数据中心	HFC227七氟丙烷	天津-中国	2009
广州萝岗区疾病预防控制中心	IG100氮气灭火系统	广州-中国	2010
埃塞俄比亚DMC项目5000t/d 熟料水泥生产线项目	IG100氮气灭火系统	埃塞俄比亚	2010
北辰世纪中心IT机房	IG01氩气灭火系统	北京-中国	2010
广州宝津安消防公司	IG541气体灭火系统	广州-中国	2010
EUSEBI IMPIANTI	CO2称重装置	意大利	2010
广州恒生照明科技有限公司 中国国电湖南邵阳宝庆电厂	IG541气体灭火系统	广州-中国	2010
天津宏大力丰消防工程设备有限公司	IG100氮气灭火系统	天津-中国	2010
东方电气集团 东风电机有限公司 阿塞拜疆芭芭拉, 明哥桥; 越南 达克明水电站项目	CO2系统	阿塞拜疆 越南	2011

Palazzo Lombardia 米兰 摩天大楼	水喷淋灭火系统、IG惰性气体灭火系统、高压细水雾灭火系统	意大利	2011
北京市朝阳区环保局监测站点	HFC227七氟丙烷	北京-中国	2011
中国石化胜利油田胜利工程建设(集团)有限责任公司 阿尔及利亚工程	IG55氮气, 氩气灭火系统	阿尔及利亚	2011
山东菏泽静亚 管路系统有限公司 辰坤集团 精密设备车间	IG01氩气灭火系统	菏泽-中国	2011
沈阳华晨宝马喷涂车间	CO2灭火系统	沈阳-中国	2011
上海华晖消防机电 工程有限公司 上海ING公司机房及数据中心	IG01氩气灭火系统	上海-中国	2011
上海招商银行机房及数据中心	HFC227灭火系统	上海-中国	2011
天津航空机电有限公司 隐蔽火试验台 油盘火试验台 密封腔	消防试验设备	天津-中国	2011
上海特孚贸易有限公司 山东东营汽车测试中心	CO2灭火系统	东营-中国	2011
上海优华劳斯喷涂车间	CO2灭火系统	上海-中国	2011
宝胜普睿司曼电缆有限公司 宝胜普睿司曼电缆有限公司 消防改造工程设计	消防工程设计	宝应-中国	2011
成都楠华东森科技有限公司 成都西子电梯	IG541气体灭火系统	成都-中国	2011

天津天利航空机电有限公司 天津时代奥城农业银行机房及数据中心	HFC227灭火系统	天津-中国	2011
北京汽车株洲分公司发动机厂	CO2灭火系统	天津-中国	2011
Ostankino电视塔	高压细水雾系统	俄罗斯	2012
石家庄烟草专卖局 物流中心仓库	HFC227灭火系统	石家庄-中国	2012
EUSEBI IMPIANTI SRL	火灾报警控制盘 烟感探测器	意大利	2012
乌镇大剧院	泵组式高压细水雾系统	嘉兴-中国	2012
中华艺术宫 2010年上海世博会 中国馆改造项目	IG541灭火系统	上海-中国	2012
上海昌兴消防设备有限公司 沙特阿拉伯商务展示项目	气体灭火系统	上海-中国	2012
EUSEBI IMPIANTI 美国通用电气 GE 中国邯郸钢铁项目	CO2灭火系统	邯郸-中国	2012
马拉维卡普拉奇电站	CO2灭火系统	马拉维	2012
哈萨克斯坦水泥厂项目	火灾报警系统	哈萨克斯坦	2012
北京中医药大学医院改造项目	HFC227灭火系统	北京-中国	2012
越南广福水电站项目	CO2灭火系统	越南	2012
凯普索实业有限公司 伊朗南部油田办公楼 机房电气室项目	IG55灭火系统	伊朗	2012

Marine & Off-shore Platform Reference List

舰船&海上平台部分业绩表

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
ROSETTI MARINO SPA ITALY 意大利	SUPPLY OF CO2, INERGEN, POWDER AND FOAM SYSTEMS 供应二氧化碳、氮气、干粉及泡沫灭火系统	ANNAMARIA B PLATFORMS ANNAMARIA B海上平台	ARBATAX TORTOLI' RIJEKA	CROATIA 克罗地亚	2008
FINCANTIERI SPA ITALY 意大利	SUPPLY AND INSTALLATION OF WATER MIST SYSTEM 供应并安装高压细水雾灭火系统	HULL 6146 – FREMM 6146号船 FREMM 多功能护卫舰	RIVA TRIGOSO (GE) GENOA 热那亚	ITALY 意大利	2008
FINCANTIERI SPA ITALY 意大利	SUPPLY AND INSTALLATION OF TURNKEY WATER MIST SYSTEMS RANGE TC2I AND TECHNICAL ASSISTANCE 高压细水雾灭火系统交钥匙工程, 供货安装、技术支持	HULL 6212 – FREMM 6212号船 FREMM 多功能护卫舰	RIVA TRIGOSO (GE) GENOA 热那亚	ITALY 意大利	2008
OOO PLAMYA E1 RUSSIA 俄罗斯	SUPPLY OF HIGH PRESSURE WATER MIST SYSTEM TO PROTECT ACCOMODATION AREAS 供应高压细水雾系统以保护住宿区	SAILING YACHT SCV-64 CHOREN DESIGN @ CONSULTING	GDANSK	POLAND 波兰	2009
FINCANTIERI SPA ITALY 意大利	SUPPLY AND INSTALLATION OF HIGH PRESSURE CO2 SYSTEM AND SUPPLY OF SPARE PARTS 供应并安装高压二氧化碳灭火系统及备品备件	HULL 6213 RUSSIAN SHIP FLEET TANKER 6213号船 俄罗斯船舶油槽船队	MUGGIANO (SP)	ITALY 意大利	2009

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
FINCANTIERI SPA ITALY 意大利	SUPPLY AND INSTALLATION OF NOVEC SYSTEMS 供应并安装 NOVEC1230 灭火系统	HULL 6211 – FREMM 6211号船 FREMM 多功能护卫舰	RIVA TRIGOSO (GE) GENOA 热那亚	ITALY 意大利	2010
C.R.N. SPA ITALY 意大利	SUPPLY OF FIRE DETECTION SYSTEM AND CO2 FIRE FIGHTING SYSTEM 供应火灾探测系统和二氧化碳灭火系统	HULL M/Y CL112#17 M/Y CL112#17号船	ANCONA 安科纳	ITALY 意大利	2010
SUDPROGETTI SPA ITALY 意大利	SUPPLY OF AMMONIA ABATEMENT SYSTEM THROUGH A HIGH PRESSURE WATER MIST SYSTEM 供应高压细水雾系统作为氨消减系统	RAFFINERIA DI GELA ISLE NO. 5	GELA (CL)	ITALY 意大利	2010
FINCANTIERI SPA ITALY 意大利	SUPPLY AND INSTALLATION OF NO. 9 HALF FIXED NOVEC MODULES 供应并安装 9 套半固定式 NOVEC1230 灭火系统	HULL 6211 – FREMM 6211号船 FREMM 多功能护卫舰	RIVA TRIGOSO (GE) GENOA 热那亚	ITALY 意大利	2010
INTERMARINE SPA ITALY 意大利	SUPPLY AND INSTALLATION OF CO2 FIRE FIGHTING SYSTEM AND DETECTION SYSTEM TO PROTECT HYPERBARIC CHAMBER CRUISER 供应并安装二氧化碳灭火系统和火灾探测系统 保护巡洋舰高压氧舱	"GAETA" MINESWEEPER "GAETA"号扫雷舰	SARZANA (SP)	ITALY 意大利	2010
FINCANTIERI SPA ITALY 意大利	SUPPLY AND INSTALLATION OF HIGH PRESSURE WATER MIST SYSTEM 供应并安装高压细水雾灭火系统	CARNIVAL - HULL 6223 6223号船	MONFALCONE (GO)	ITALY 意大利	2010

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
FINCANTIERI SPA ITALY 意大利	SUPPLY AND INSTALLATION OF HIGH PRESSURE CO2 SYSTEM 供应并安装高压二氧化碳灭 火系统	HULL 6224 6224号船	MONFALCONE (GO)	ITALY 意大利	2011
EUSEBI SERVICE SRL ITALY 意大利	SUPPLY OF HIGH PRESSURE WATER MIST SYSTEM 供应高压细水雾灭火系统	AGIP KCO 阿吉普国际财团	KAZAKHSTAN 哈萨克斯坦	ITALY 意大利	2011
CCI OIL & GAS CONTRACTORS INC. PANAMA 巴拿马	SUPPLY OF FIXED FOAM SYSTEM 供应固定式泡沫灭火系统	P-62 OFF-SHORE PLATFORM P-62海上平台 PETROBRAS 巴西国家石油公司	PAPA TERRA CAMPOS BASIN	BRAZIL 巴西	2012
COCHIN SHIPYARD LTD INDIA 印度	SUPPLY OF CO2 HIGH PRESSURE SYSTEM 供应高压二氧化碳灭火系统	INDIAN NAVY 印度海军	COCHIN PORT 科钦港	INDIA 印度	2012
EIFFAGE CONSTRUCTION METALLIQUE FRANCE 法国	FIRE WATER FOAM SKIDS PACKAGE 水泡沫集成灭火系统	OFQ LIVING QUARTER PLATFORM PROJECT OFON PHASE 2 浮式海上平台 OFON 二期 TOTAL E&P NIGERIA LIMITED 道达尔勘探与生产尼日尼亚 有限公司	OFON FIELD 奥方油田	NIGERIA 尼日尼亚	2012
FINCANTIERI SPA ITALY 意大利	SUPPLY AND INSTALLATION OF HIGH PRESSURE WATER MIST SYSTEM 供应并安装高压细水雾灭 火系统	HULL 6231 6231号船	MONFALCONE (GO) 蒙法尔科内	ITALY 意大利	2013
HIGHPOWER SYSTEMS INC. BRITISH VIRGIN ISLANDS 英属维京群岛	SUPPLY OF CO2 HIGH PRESSURE SYSTEMS AND FOAM SYSTEMS 供应高压二氧化碳灭火系统 和泡沫灭火系统	FIXED PLATFORM PZHM-1 固定式海上平台 PZHM-1	FILANOVSKY FIELD - CASPIAN SEA 里海	RUSSIA 俄罗斯	2013

Oil & Gas Reference List

石油石化部分工程业绩表

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
TECNOSISTEMI FZ LLC UAE 阿联酋	SUPPLY AND INSTALLATION OF CO2 FIRE FIGHTING SYSTEMS AND FIRE DETECTION SYSTEMS TO PROTECT NO.11 SUBSTATIONS INSIDE CONTAINERS COMPRISING MEDIUM VOLTAGE ELECTRICAL PANELS 供应并安装二氧化碳灭 火系统和火灾探测系 统，用以保护11座 位于集装箱内的变 电站，包括防护中 压配电板	ZUBAIR FIELD PROJECT ZUBAIR项目 ENI IRAQ 意大利埃尼集团 伊拉克分公司	ZUBAIR	IRAQ 伊拉克	2013
NEW VALLEY GENERAL TRADING COMPANY IRAQ 伊拉克	SUPPLY OF HFC227ea SYSTEMS 供应七氟丙烷灭 火系统	SCOP		IRAQ 伊拉克	2013
WORLEY PARSONS EUROPE LIMITED 沃利帕森斯工程公 司欧洲分公司 UNITED KINGDOM 英国	SUPPLY OF HIGH PRESSURE WATER MIST SYSTEMS, FOAMS SYSTEMS, WATER SPRAY SYSTEMS 供应高压细水雾系 统，泡沫系统， 水喷雾系统	ESKENE WEST RAIL PROJECT AGIP KCO 阿吉普国际财团		KAZAKHSTAN 哈萨克斯坦	2013
PUBLIC JOINT - STOCK COMPANY RUSSIA 俄罗斯	SUPPLY OF HFC SYSTEMS, FOAM SYSTEMS, DELUGE SKID, PORTABLE AND WHEELED FIRE EXTINGUISHERS, HYDRANTS, HOSE BOXES, MONITORS, SAFETY SHOWERS, FIRST AID KIT AND WIND SLEEVES 供应七氟丙烷灭 火系统、泡沫 灭火系统、雨淋 集成式灭 火系统、手提 式及推车式 灭火器、消 火栓、消 防水带、 监控器、 安全淋浴、 急救包等	NMAGEP NORTH MIDDLE AREA GAS EXPLOITATION PROJECT NMAGEP中北部地区天 然气开发项目 STROYTRANS GAZ	AL-RAKKA	SYRIA 叙利亚	2013

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
SAIPEM CONTRACTING NIGERIA LIMITED NIGERIA 尼日利亚	SUPPLY OF FIRE FIGHTING PUMPING STATION 供应消防泵站系统	SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LTD. - NIGERIA 荷兰壳牌石油开发公司 尼日利亚公司		NIGERIA 尼日利亚	2012
SAIPEM SPA ITALY 意大利	SUPPLY OF NOVEC 1230 FIRE FIGHTING SYSTEMS WITH SPARE PARTS TO PROTECT SUBSTATION - COMMISSIONING & START-UP INTERVENTION 供应NOVEC 1230灭火系统, 用以保护变电站, 提供调试与启动服务	ARZEW LNG (GL3-Z) PROJECT ARZEW液化天然气 (GL3-Z)项目	ARZEW	ALGERIA 阿尔及利亚	2012
PETROFAC INTERNATIONAL LLC UAE 阿联酋	SUPPLY OF DELUGE VALVE SKID, WATER SPRAY NOZZLES AND FOAM GENERATOR, FOAM SKID FIRE FIGHTING EQUIPMENTS AND INERT GAS FIRE EXTINGUISHING SYSTEM - FIRE HYDRANTS, MONITORS, FIRE VALVES, FIRE HOSE CABINETS AND PORTABLE & MOBILE FIRE FIGHTING EQUIPMENTS 供应雨淋集成式系统、水喷淋喷头、泡沫发生器、泡沫集成式系统、IG惰性气体灭火系统、消防栓、监控器、消防阀门、消防水带、手提式及移动式灭火设备	SOUTH YOLOTEN GAS FIELD DEVELOPMENT PROJECT 南部YOLOTEN天然气田开发项目 SC TURKMENGAS		TURKMENISTAN 土库曼斯坦	2012
TSJ LIMITED MALTA 马耳他	SUPPLY OF FIRE FIGHTING SYSTEM ARGOSYSTEM 供应IG惰性气体灭火系统	3583 PP/PE RUWAIS (UAE) EPC BOROUGE 3 PROJECT	ABU DHABI 阿布扎比	UAE 阿联酋	2011

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
CHINA PETROLEUM ENGINEERING AND CONSTRUCTION 中国石油工程建设集团公司 CHINA 中国	SUPPLY OF SPARE MATERIAL FOR FIRE FIGHTING SYSTEM 供应消防系统配件	OIL FIELD SURFACE FACILITIES DEVELOPMENT PROJECT 油田地面建设工程项目	AHDEB AHDEB油田	IRAQ 伊拉克	2010
BENTINI SPA ITALY 意大利	SUPPLY OF ARGOSYSTEM PLANT 供应IG惰性气体灭火系统	STABILIMENTO BENTINI BENTINI SPA PLANT	FAENZA (RA)	ITALY 意大利	2010

Power Plant Reference List

发电厂部分工程业表

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
WELLSOFT IMPORT LLP UNITED KINGDOM 英国	SUPPLY OF CO2 FIRE FIGHTING SYSTEMS BIG PACK TO PROTECT BOILER 供应二氧化碳灭火系统	STAZIONE DI COMPRESSIONE GAS		RUSSIA 俄罗斯	2013
BBM AKUSTIK TECHNOLOGIE GMBH GERMANY 德国	SUPPLY OF CO2 FIRE FIGHTING SYSTEMS AND FIRE DETECTION SYSTEMS 供应二氧化碳灭火系统和火灾探测系统	CENTRALE ELETTRICA NOVOGORKOVSKAYA TEZ ELECTRIC POWER PLANT		RUSSIA 俄罗斯	2013

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
BEDESCHI SPA 意大利柏岱斯蒂集团 ITALY 意大利	SUPPLY AND INSTALLATION OF FIRE DETECTION SYSTEMS, DELUGE AND ARGON FIRE FIGHTING SYSTEMS 供应并安装火灾探测系统, 雨淋系统以及氩气灭火系统	ENEL POWER PLANT OF BRINDISI 意大利ENEL电力公司 BRINDISI电站	BRINDISI	ITALY 意大利	2013
CTCI 中鼎工程股份有限公司 CHINA TAIWAN 中国台湾	SUPPLY OF HYDRANTS, MONITORS, NOZZLES AND DELUGE VALVES 供应消防栓系统, 监控器, 喷头及雨淋阀	FURNACES & ETHYLENE TANK PROJECTS		QATAR 卡塔尔	2012
ENEL PRODUZIONE SPA ITALY 意大利	SUPPLY AND INSTALLATION OF HIGH PRESSURE WATER MIST SYSTEMS 供应并安装高压细水雾系统	HYDROELECTRIC POWER PLANTS OF DEVERO AND ROVESCA DEVERO AND ROVESCA 水电站	DEVERO E ROVESCA (VB)	ITALY 意大利	2012
GE ENERGY PRODUCTS FRANCE SNC 美国通用电气能源事业部 法国公司 FRANCE 法国	SUPPLY OF HIGH PRESSURE CO2 FIRE FIGHTING SYSTEM AND CONTROL PANEL 供应高压二氧化碳灭火系统及控制盘	E1210 STALOWA WOLA POWER STATION E1210 STALOWA WOLA 电站	STALOWA WOLA	POLAND 波兰	2012
SINERGIA SRL ITALY 意大利	SUPPLY OF CO2 SYSTEM 供应二氧化碳灭火系统	ELECTRICAL COMBINED CYCLE POWER PLANT 联合循环电站	QURAYYAH	SAUDI ARABIA 沙特阿拉伯	2011
ITALY 意大利	Water mist systems CO2 systems 高压细水雾系统 二氧化碳灭火系统	TURBIGO POWER STATION Turbigo发电厂	MILAN 米兰	ITALY 意大利	2011

客户 CLIENT	描述 DESCRIPTION	项目 PROJECT	项目所在地 SITE	最终用户 所在国家 COUNTRY	年度 YEAR
客户所在国家 COUNTRY		最终用户 END USER			
ANSALDO ENERGIA SPA ITALY 意大利	SUPPLY AND INSTALLATION OF CO2, DELUGE, FM200 AND DETECTION SYSTEM - VARIOUS MATERIAL 供应并安装二氧化碳灭火系统、雨淋灭火系统、FM200 灭火系统、火灾探测系统	SORGENIA POWER - THERMOELECTRIC POWER PLANT 火电站	APRILIA (LT)	ITALY 意大利	2010
HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD 韩国现代工程建设有限公司 KOREA 韩国	SUPPLY OF FIRE FIGHTING MATERIAL: MONITOR NOZZLES, CRATES, VALVES, STAINERS, FOAM SKID AND FIRE DETECTION SYSTEM 供应消防防火设备: 监控喷头、板条箱、阀门、染色机、泡沫集成式灭火系统以及火灾探测系统	4 X 350 MW POWER PLANT PROJECT 4 X 350 MW 电站项目	AL KHALIJ	LIBYA 利比亚	2009
AEM GESTIONI SRL ITALY 意大利	SUPPLY AND INSTALLATION OF WATER MIST SYSTEM WITH HIGH PRESSURE CYLINDERS 供应并安装瓶组式高压细水雾系统	TURBINES 涡轮机	CREMONA	ITALY 意大利	2009