

Bienvenido al Mundo FirePro

**FirePro.**

El principal fabricante mundial de  
Tecnología de Extinción de Fuego de Aerosol Condensado



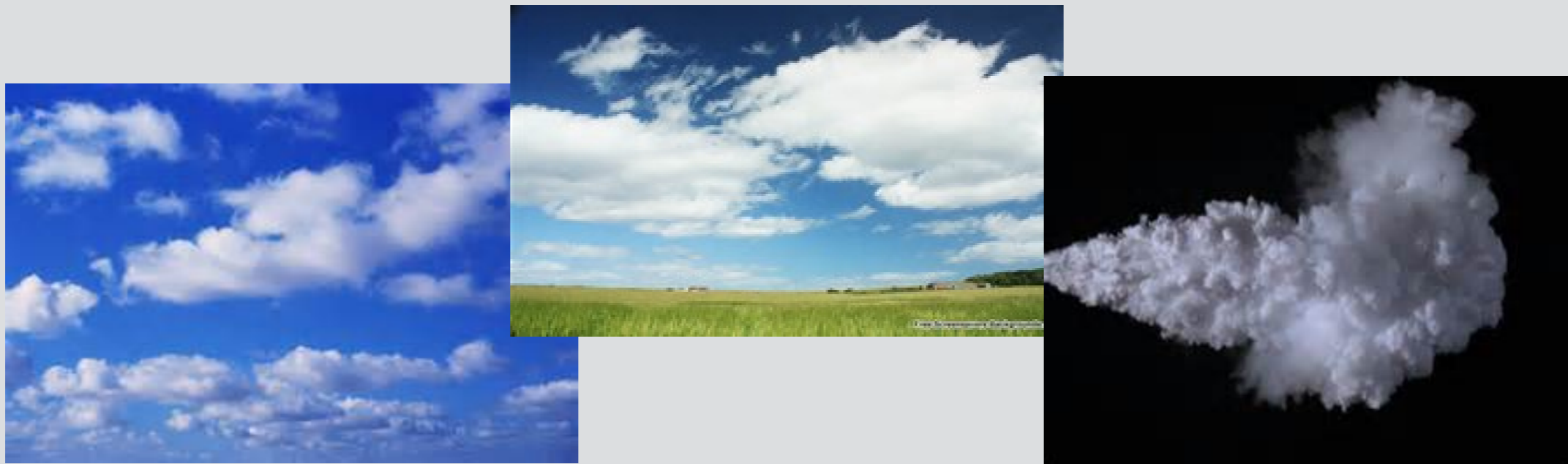
# ¿Qué es el Aerosol?



## Definición (es):

Aerosol = Una dispersión coloidal en un gas.

Coloides = Partículas que miden unas pocas micras - nanómetros que se encuentran suspendidos en un gas / sustancia.



# Aerosol - Extinción de Incendios



- Siglo 15 Sales de potasio utilizadas para extinguir incendios en Alemania
- 1950's Tecnología rusa (aerosol sólido al estado gaseoso) (Programa Aeroespacial)
- 1996 FirePro pre-ingeniería de sistemas de aerosoles condensados

# Perfil Empresa



FirePro Systems Ltda establecida en 1996  
Sede Principal y Planta de Fabricación en  
Chipre.

Oficinas en Atenas, Grecia

Distribuidores en 75 países

Instalaciones en 110 países

**FirePro.**

# Cartera Internacional de Clientes



# Tecnología Patentada Compuesto FPC



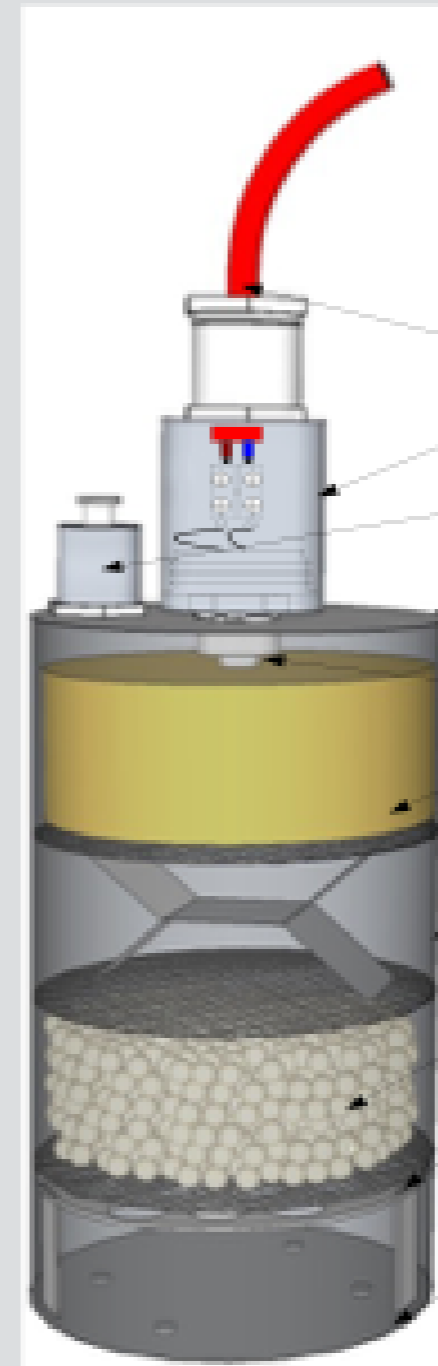
- No pirotécnico (patentado)
- Compacto - fuerte sólido
- Sales de potasio -  $K_2CO_3$
- Vida Certificada - 15 Años (10 años UL)
- Temperatura de auto-activación a  $300^{\circ} C$
- No hay reacción química con el material de refrigeración

# Características de Salud y Seguridad

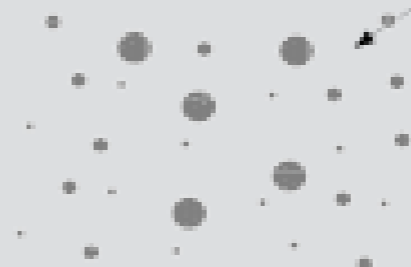


- Potencial de Calentamiento Global = 0
- Potencial de Agotamiento del Ozono = 0
- Insignificante Tiempo de Vida Atmosférica
- No hay agotamiento del oxígeno
- No es Tóxico
- No es Corrosivo

# Generador de Aerosol Condensado



- Electrical Wire
- Electrical Housing
- Thermal Connecting Housing
- Cover Plate
- Electrical Initiator
- Solid Aerosol Forming Compound (FPC)
- Metal Housing
- Cooling Material
- Sealing
- End Plate Discharge Outlet
- Fire Extinguishing Aerosol



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# Gama de Productos



# Etiqueta del producto





Aerosol Generating  
Fire Extinguishing  
System Unit

**EN 2**  
Class of fire

**NFPA 10**  
Class of fire

**Made in the EU**

To be installed, inspected, maintained and tested in accordance with the Standard for Fixed-Aerosol Fire Extinguishing Systems, NFPA 2010 and in accordance with the installation and Use Manual for EX2000, rev. 1. June 2018.

This system is made up of units tested with the equipment contained in the detailed Design, Installation, Operation and Maintenance instruction Manual.

The designer must be consulted whenever changes are planned for the system in any part thereof.

An authorized installer or designer must be consulted after discharge.

Operating temperatures from -40°F (-40°C) to +120°F (50°C).

Model  
Serial Number  
Mass of aerosol forming compound in gr  
Date of manufacture  
Replacement date

**UL LISTED** 1021

**ULC**

**EMERSON**

**CE**

**CCC**

**RoHS**

**REACH**

**ISO 9001**

**ISO 14001**

**SEPA**

**FirePro**

**Inspection & Maintenance:**  
The Extinguishing system unit shall be inspected monthly, or at more frequent intervals, when circumstances require, by trained personnel. During inspection check the following components: electric wiring, electric contacts, fire bulbs and generator's casing.

**Warning:** Discharge of agent can irritate or potentially lead to permanent fire retardant foams of agent. Avoid unnecessary exposure. Do not touch, breathe or inhale the label. Contents in solid form: Potassium Nitrate, Potassium Carbonate, Magnesium, Epoxy Resin, Polyurea.

H.M.I. - PFC Solids Compound 0-0-0

**After Using:** Dispose the aerosol system after properly after use.



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# Nueva Política Alternativa Significativa



Lista SNAP - Listado

Protección del ozono estratosférico:  
Listado de Sustitutos para sustancias destructoras del ozono / Supresión de Incendios y Protección de Explosiones

Regla Final Directa / Sustituto Aceptable:  
Aerosol E en polvo (FirePro)

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# UL & ULC Listada



FWSAC.EX6960  
 Aerosol Generando  
 partículas de extinción de  
 incendios



# Garantía y Seguro de Responsabilidad de Productos



**FirePro Systems Ltd**  
6 Koumandarias Street & Spyrou Araouzou  
Tonia Court No. 2, 6<sup>th</sup> Floor  
3036 Limassol, Cyprus

**WARRANTY CERTIFICATE**


This is to Certify that:

- **The Certified Expected Lifetime** of the **FirePro®** product is 15 years, subject to aggressive chemical and/or harsh environmental conditions.
- **The Manufacturer's FirePro® Product Functionality Warranty** is 5 years, subject to aggressive chemical and/or harsh environmental conditions.
- **The Manufacturer's FirePro® Product Defect-Free Warranty** is 3 years, subject to aggressive chemical and/or harsh environmental conditions.

  
**Dr. Avgoustinos Avgousti**  
Managing Director

  
**Dr. G. Gianfilippi de Parenti**  
Director Technical Division

Limassol, 2<sup>nd</sup> January 2012

  
**GENERAL THIRD PARTY, PUBLIC AND  
PRODUCT LIABILITY INSURANCE  
Policy Schedule**

POLICY NO. : PL824

NAME OF INSURED : FIREPRO SYSTEMS LTD & FIREPRO CYPRUS LTD  
6, Koumandarias & Spyrou Araouzou Str.,  
Tonia Court No. 2, 6<sup>th</sup> floor  
CY-3036 Limassol, Cyprus

BUSINESS OR OCCUPATION : - **Fire Pro Systems :**  
Manufacture, Processing, Packing and Wholesale  
- **Fire Pro Cyprus :**  
Wholesale, Retailing and Maintenance & Inspection of the  
systems twice a year (only in Cyprus)


INTEREST : General Third Party, Public and Product Liability

LIMITS : € 750.000 any one occurrence and  
€ 1.500.000 in the annual aggregate

DEDUCTIBLES : € 10.000 per occurrence

PERIOD : From 07/03/2014 To 06/03/2015 (both days inclusive)

CONDITIONS : As per Atlantic's standard General Third Party, Public and  
Product Liability wording on occurrence basis, subject to:  
- No known or reported losses or circumstances which might  
lead to a claim, up until inception date of Renewal 2014  
- The first premium and all renewal premiums that may be  
accepted shall be adjusted by the actual amount of Turn-Over  
during each period of insurance. If the actual amount of Turn-  
Over shall differ from the original declared, the difference in  
premium shall be settled by a further proportionate payment  
to the Company or subject to the Minimum Premium specified  
in the schedule by a refund by the Company as the case may  
be.  
- The Insured shall take reasonable precautions and to comply  
with all obligations and regulations set out in any legislation  
applicable or imposed by any authority.



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# ¿Cómo funciona el aerosol?



KOH reacciona con CO<sub>2</sub> para formar carbonato de potasio



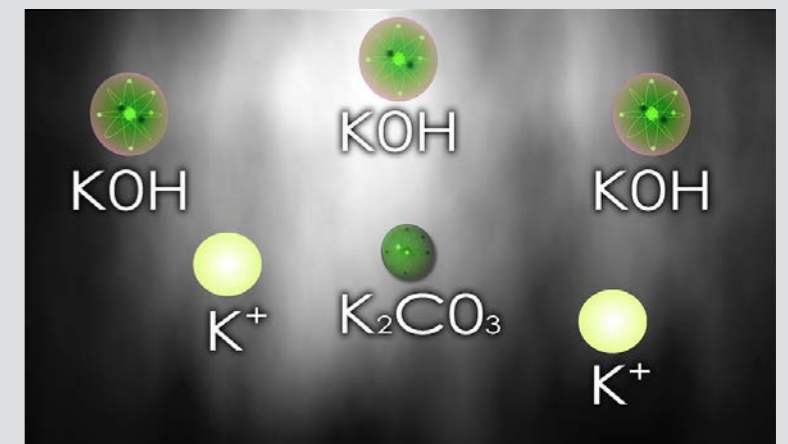
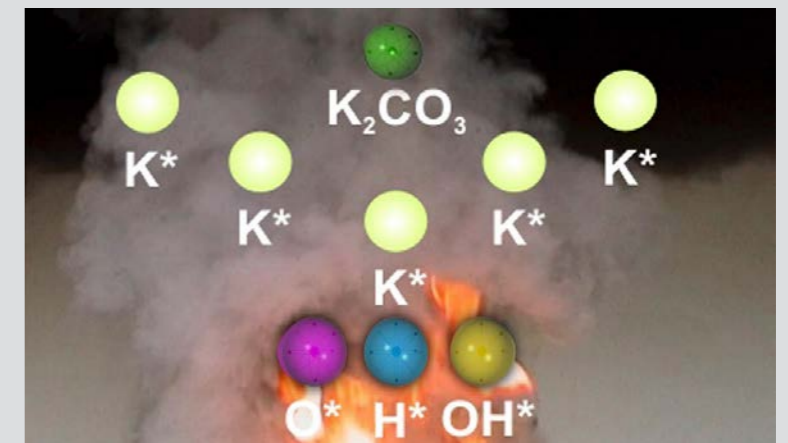
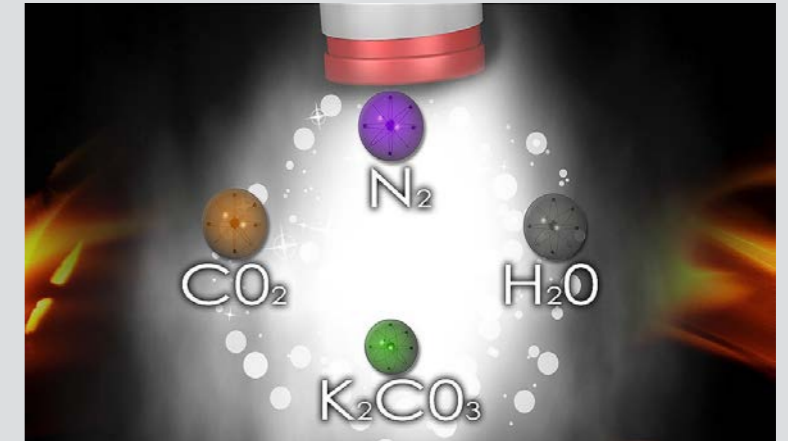
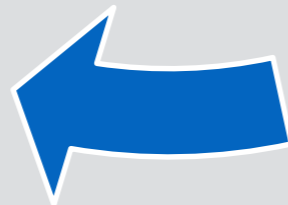
Formación de radicales libres de potasio



Formación de hidróxido de potasio



K + (radicales) reaccionan con los radicales libres de fuego (OH, O, H)



# FirePro - Eficiencia



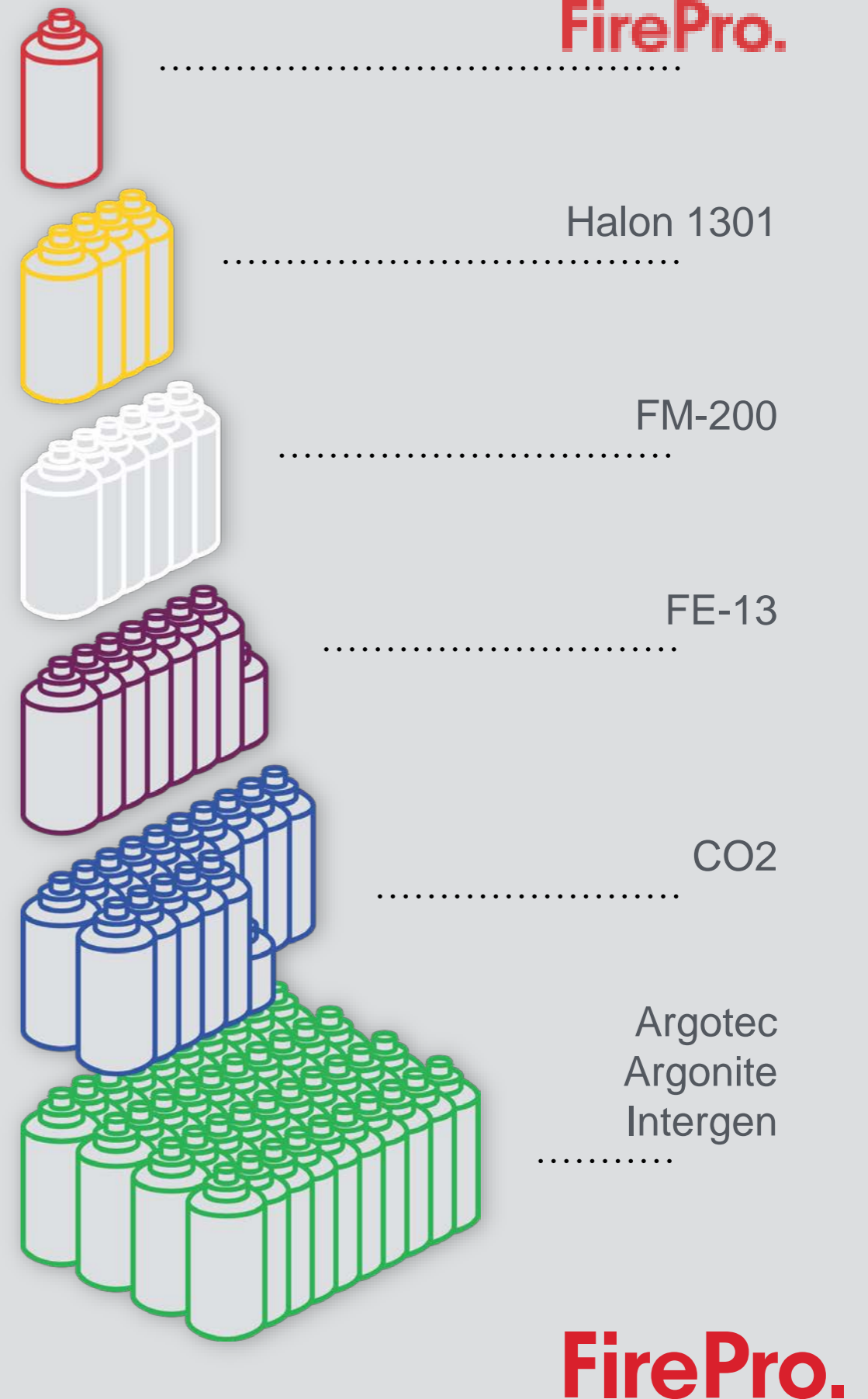
4x más eficiente que halón 1301

6x más eficiente que FM-200

7.5x más eficiente que FE-13

15.5x más eficiente que el CO2

40x más eficiente que los gases inertes

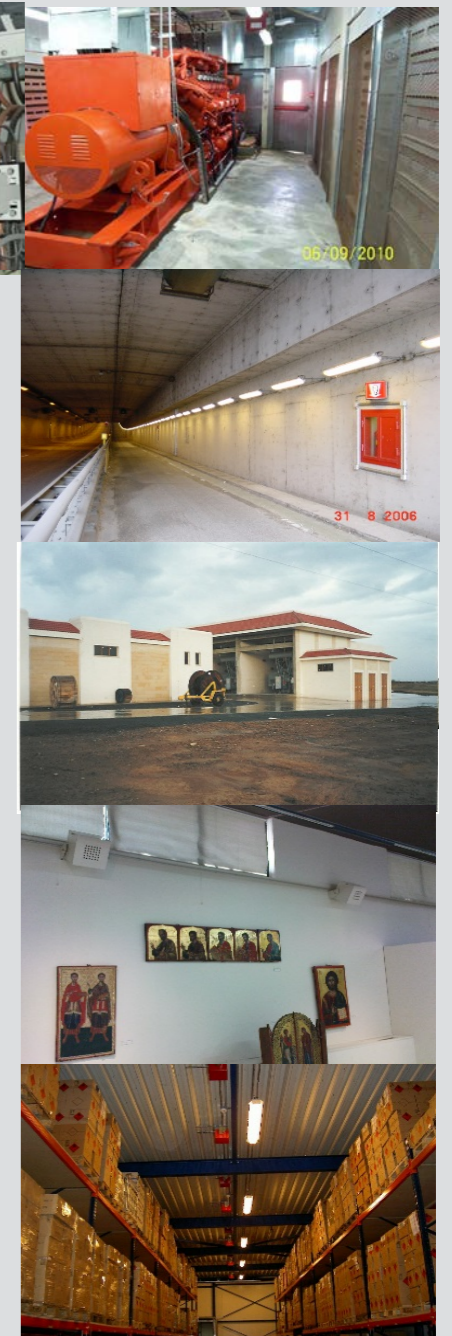


# FirePro Aplicaciones



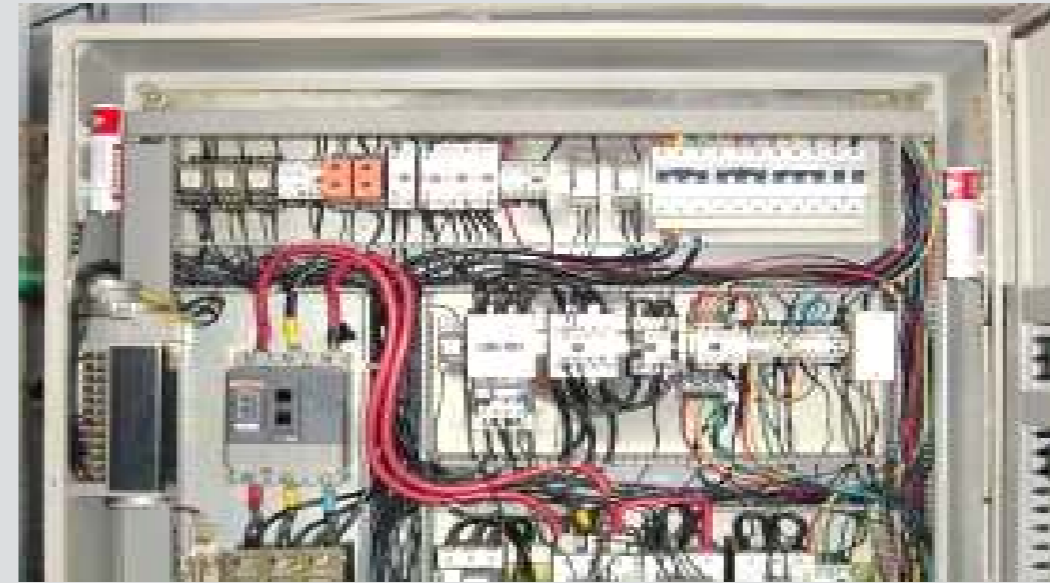
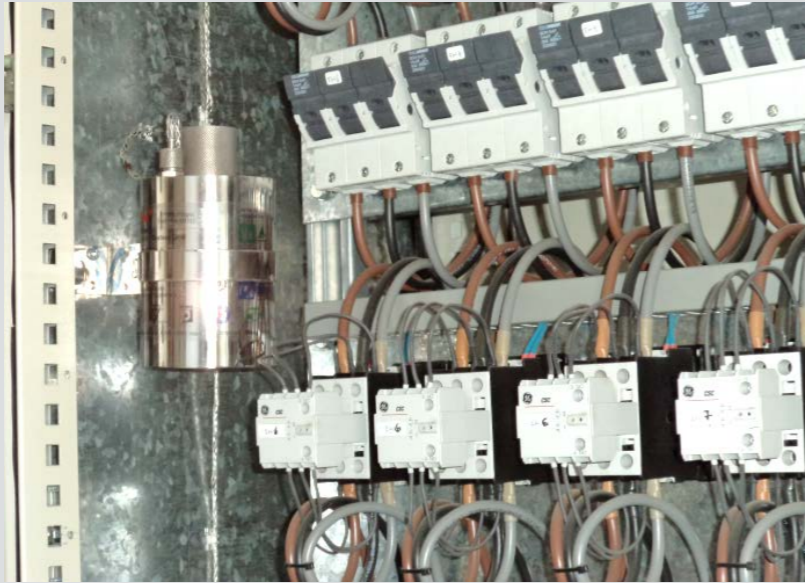
- ✓ Estaciones de Electricidad
- ✓ Industrial
- ✓ Telecomunicaciones
- ✓ Ferrocarriles
- ✓ Minería
- ✓ Hospitales
- ✓ Marina (incl. Plataformas petrolíferas)
- ✓ Militar
- ✓ Almacenamiento - Almacenes

- ✓ Salas Eléctricas
- ✓ Tableros Eléctricos
- ✓ Salas de Baterías
- ✓ Paneles de conexión
- ✓ Radares
- ✓ Aerogeneradores
- ✓ Caminos de cables / Túneles
- ✓ Motores / equipos
- ✓ Vehículos



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# Tableros Eléctricos



# Tableros de Control Parque Solar - Corea del Sur



# Subestaciones Eléctricas Chipre



# Subestaciones Eléctricas Chelsea, Westminster Hospital



# Almacenes y Archivos



VROM NETHERLANDS



FINANCIAL INSTITUTIONS, CYPRUS



TELECOM ROMANIA

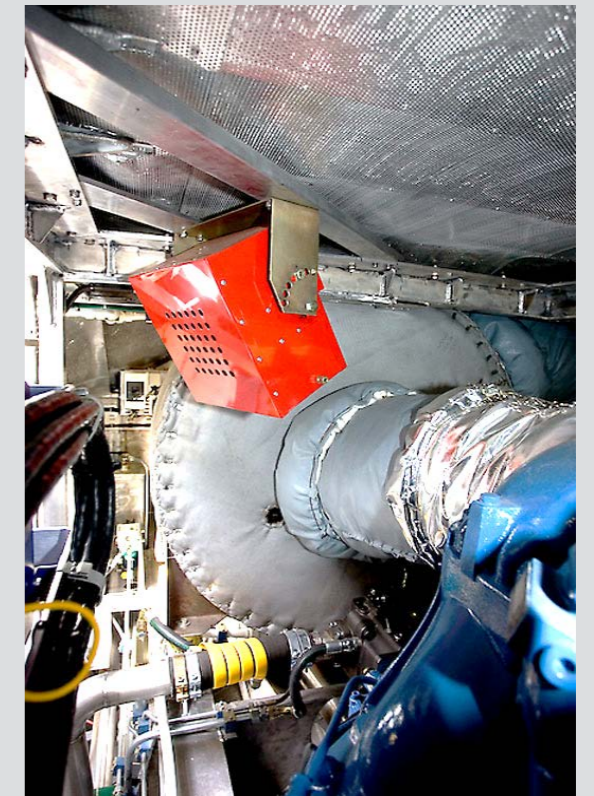
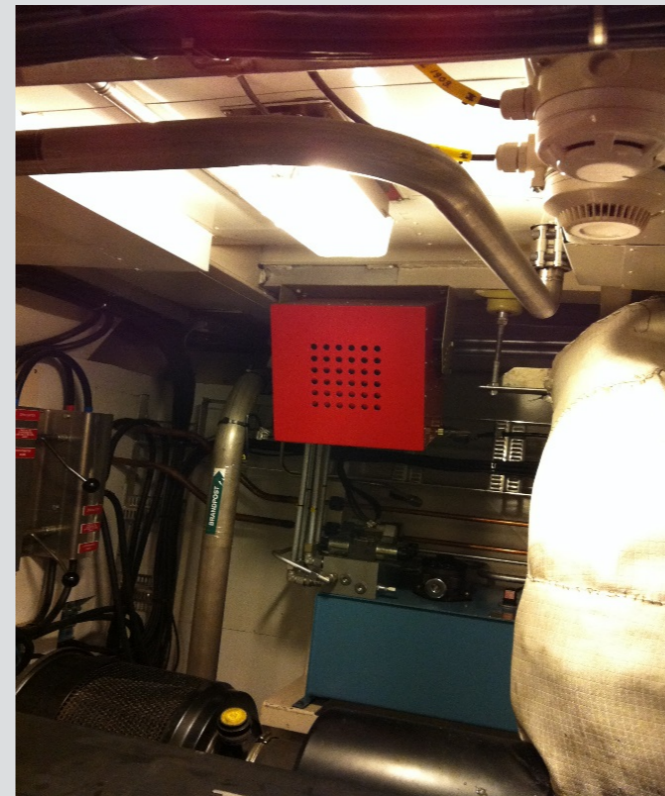
# Estación de Investigación Princesa Elisabeth, Antártida



# Aerogeneradores (Hyundai) Corea del Sur



# Embarcaciones Pesca, Yates, Armada



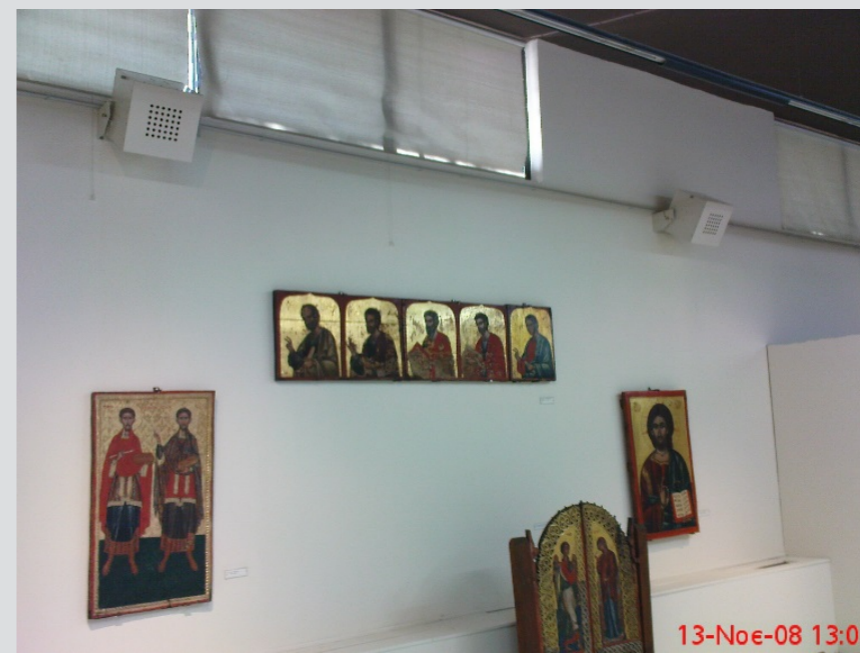
# Aplicaciones Militares (Tierra - Mar)



# Plataformas Petrolíferas Marinas



# Museos– UNESCO Iglesias

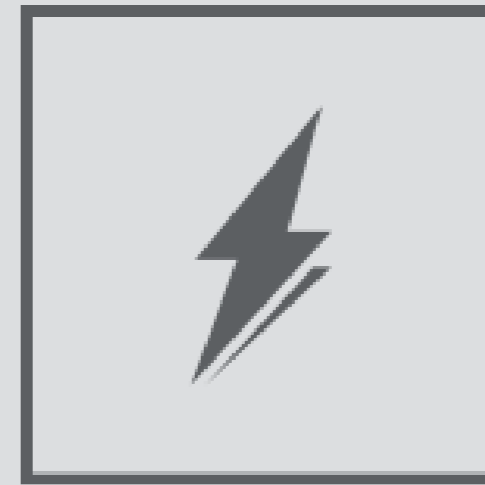




15 años de vida de funcionamiento



Cero ODP & GWP



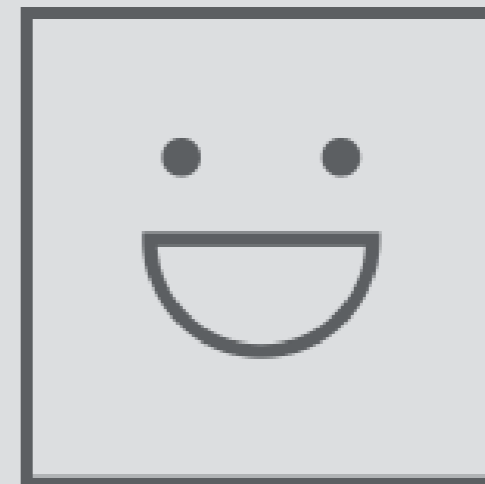
No Conductivo



No Corrosivo



No Pirotecnico



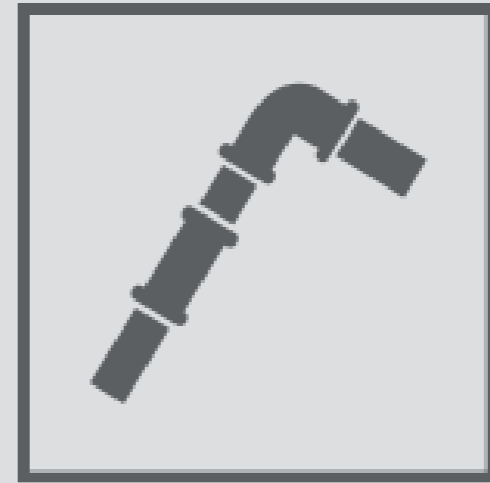
Seguro para respirar



Diseño Sencillo



Personalización completa



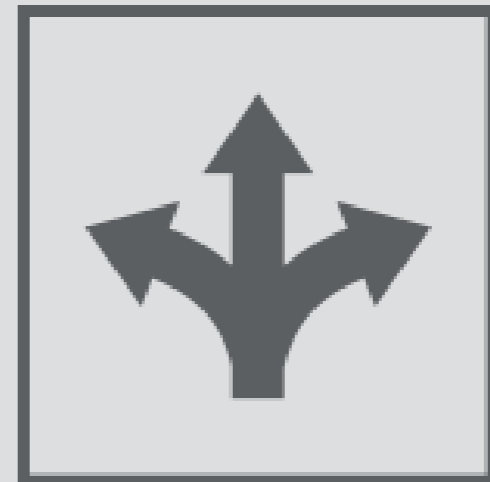
No Tuberías



Ahorro de Tiempo



Económico



Numerosas Aplicaciones

**FirePro.<sup>®</sup>**