



protecfire
German Engineering



MINING | CONSTRUCTION | TUNNEL BORING | FORESTRY | AGRICULTURE | HEAVY EQUIPMENT

Revolutionary Fire Suppression Systems



HEAVY MOBILE EQUIPMENT FIRE PROTECTION

detexline4MC

RAPTOR
detex

firespy
powder

RAPTOR
powder

detexAr

RAPTOR
nova

No Electricity

No Pressure

Low Maintenance

Safety & Environmental Protection is Our Priority



Fully Pneumatic - Self Contained

Stainless steel container

Safe and robust
Internal activation system
Maintenance free
Stainless steel

Fine Spray Nozzles

Patented
75° angle spraying
Robust and precise
Stainless steel
Very small and fits virtually anywhere

Optical and Acoustic Alarm

Compact control panel
Acoustic signal
Test button

Spy - Thermo-Pneumatic Detector

Patented
Multiple temperature ranges
Sensitive to hidden fires
Robust and accurate
Stainless steel

Made in Germany

detex360 version



360 degrees of fine spray and detectors, all in one piece.

A single small unit system with detection and extinguishing enables quick installation!
This system allows a homogeneous fine spray dispersion throughout the compartment.
The nozzles cover all directions for effective dispersion.

Watch the video





Single-line System (det-ex)

Detection and extinguishing in a single pipe line.



No Pressure

The extinguishing agent container is made of stainless steel and is pressure-free in the operating state. The tubing is also pressureless.



No Electricity

No electricity needed in the system.



5 Years - No Parts Change

Long savings - durable and resistant parts.



Ultra-Fast Detection

Response speed: Ultra Fast Response RTI 12. False alarm proof. Based on "temperature" parameter for pneumatic activation.



Operation Temperature Range: -50°C to 80°C

Prepared for extreme climates, whether in the desert or in the mountains.



Capable of Working in Extreme Conditions

Shock and vibration resistant.



Stainless Steel

Precision manufacturing - highly durable stainless steel.



Very Low Maintenance

Due to the absence of pressure and simplicity, maintenance routines are practically only visual.



Fully Mechanical / Pneumatic

The entire system is self-contained. It does not require manual operations and does not depend on external controls, such as control panels or electrical detectors.

Possibility of multiple temperature ranges in a single system.
57 °C | 68 °C | 79 °C | 93 °C | 110 °C | 141 °C | 182 °C | 230 °C | 260 °C

Operates in highly ventilated places and in open spaces



Extinguishing Agent

Liquid - TiBorex Absolute



**Can be installed in
Any Position/Angle**

Watch the video





System Components



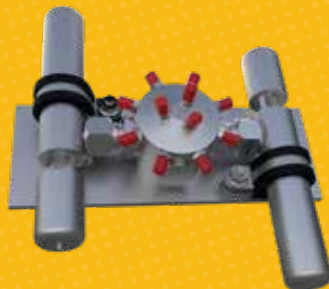
SPY Thermo-pneumatic Detector

Unique patented detector
No electricity required
High-finish stainless steel
Response speed: Ultra Fast Response RTI 12
Available detection temperatures:
57 °C | 68 °C | 79 °C | 93 °C | 110 °C | 141 °C | 182 °C | 230 °C | 260 °C



Fine-Spray Nozzles

Unique patented nozzle solution
Quick and easy to install - Reduces installation time by ~70%.
Very small - Virtually fits anywhere
Stainless steel
S1 factor 0.5 - Fine spray technology
Up to 75° spray pattern
High quality, heavy-duty nozzle caps



detex360

Multi-directional fine dispersion nozzles and detectors in one piece.
Very small - Virtually fits anywhere
Stainless steel
S1 factor 0.5 - Fine spray technology
Up to 90° spray pattern on each nozzle - high coverage.
Unique in the world.



Extinguishing Agent Container

Patented - Unique Pneumatic Release System
Can be placed in any position!
Stainless steel with electrostatic paint finish Ral3000
Patented - Stainless steel actuation system

Liquid Agent: Tiborex Absolute - exclusive protecfire agent
Effective against liquid, solid and grease fires.



Pneumatic Manual Actuator

Unique Patented Pneumatic Activation System
Stainless Steel
Safety Locking System
Argon Gas Activation



Alarm/Test Panel

Easy to Install
One-button Operation for Testing
Buzzer for Alarm
Optical LED Light for Test/Alarm

TiboRex
ABSOLUTE

Liquid Extinguishing Agent

Ultra-Rapid Extinguishing
Cooling and Blanketing Effect
Environmentally Friendly (Non-toxic | Biodegradable)
Fluorine Free
Residue Control by Ultraviolet Light





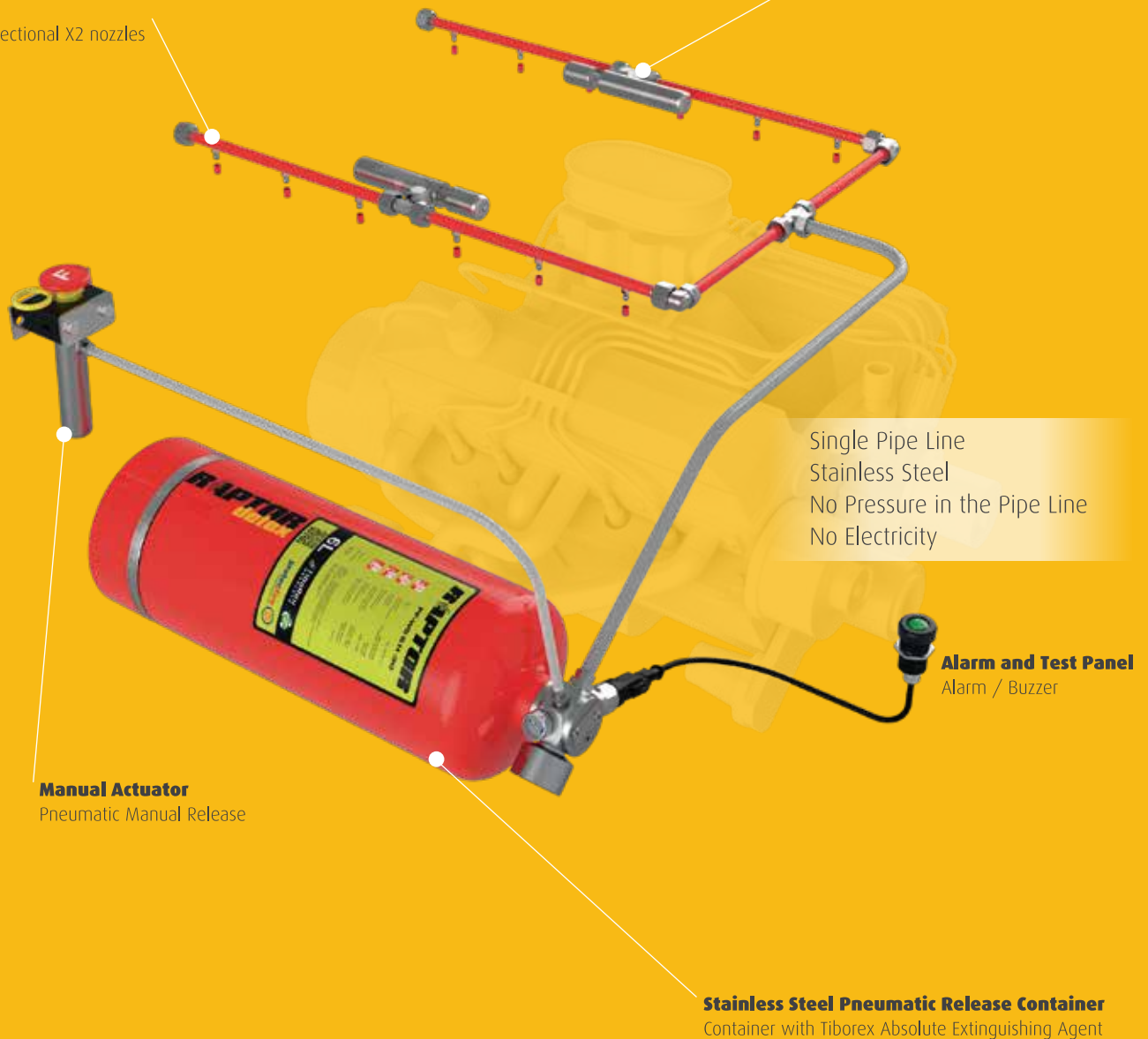
System Components

Fine-Spray Nozzles

Spray bars with 3x S1 nozzles
or
Directional X2 nozzles

SPY86

Thermo-Pneumatic detector



Example of a Pre-engineered Raptor Kit



System Components



SPY86 Thermo-Pneumatic Detector

Patented Unique Detector
No Electricity Required
Stainless Steel CNC Machined

Available Detection Temperatures
57°C • 68°C • 79°C • 93°C • 110°C • 141°C • 182°C • 230°C • 260°C



Fine Spray Bars - S1 Nozzles

Fine Spray Nozzle Bars / X2 Nozzles

Patented Unique Nozzle Solution
Easy and Fast to Install - Reduces Installation Time by 70%.
Very Small - virtually fits anywhere
Stainless Steel
S1 0.5 Factor - Fine Spray Technology / K1.0 factor on X2 Nozzles
Up to 90° Spray Pattern
High Quality and Resistant Nozzle Caps



X2 Fine Spray Nozzles

Extinguishing Agent Container

Patented - Unique Pneumatic Release System
Can be placed in any position (vertical or horizontal)
Stainless Steel with Powder Coating Finish Paint Ral3000
Patented - Stainless Steel Valve System

Liquid Agent: Tiborex Absolute - Exclusive protecfire Clean Agent
Effective against Liquid, Solid, and Grease fires



Pneumatic Manual Actuator

Patented Unique Pneumatic Activation System
Stainless-Steel
Safety Lock System
Argon Gas Activation



Alarm / Test Panel

Easy to Install
One Button Operation for Testing
Buzzer for Alarm
Optical Led light for Test / Alarm

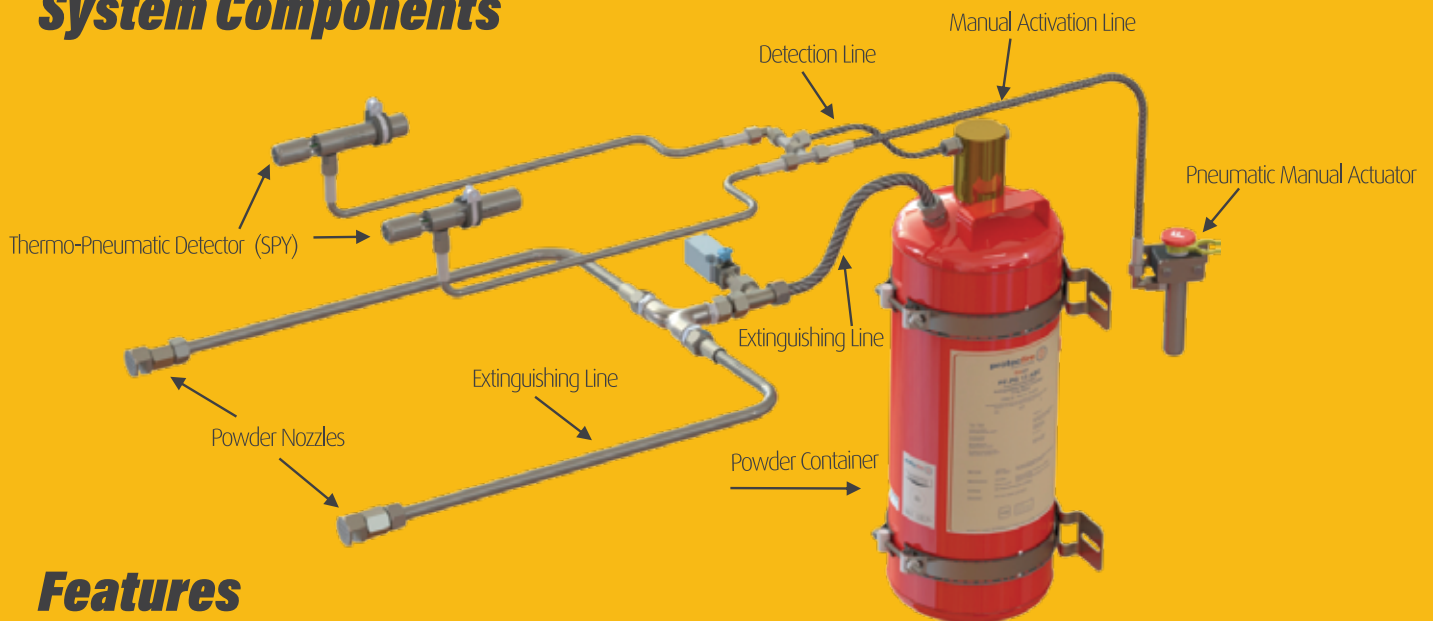


Liquid Extinguishing Agent

Ultra-Fast Extinguishing
Quenching Effect
Blanketing Effect
Environmental Friendly (Non-toxic | Biodegradable)
Fluorine Free
Residue Monitoring by Uv Light



System Components



Features

No electricity

No electrical power in the system is needed

No pressure

No pressure in all pipeline

Maintenance free

Almost maintenance free, no parts need to be replaced for up to 5 years

Simple & Easy to install

Both for new system or retrofit and in a limited and confined space.

Applicable temperature: -30°C to 60°C

Able to work in extreme adverse conditions

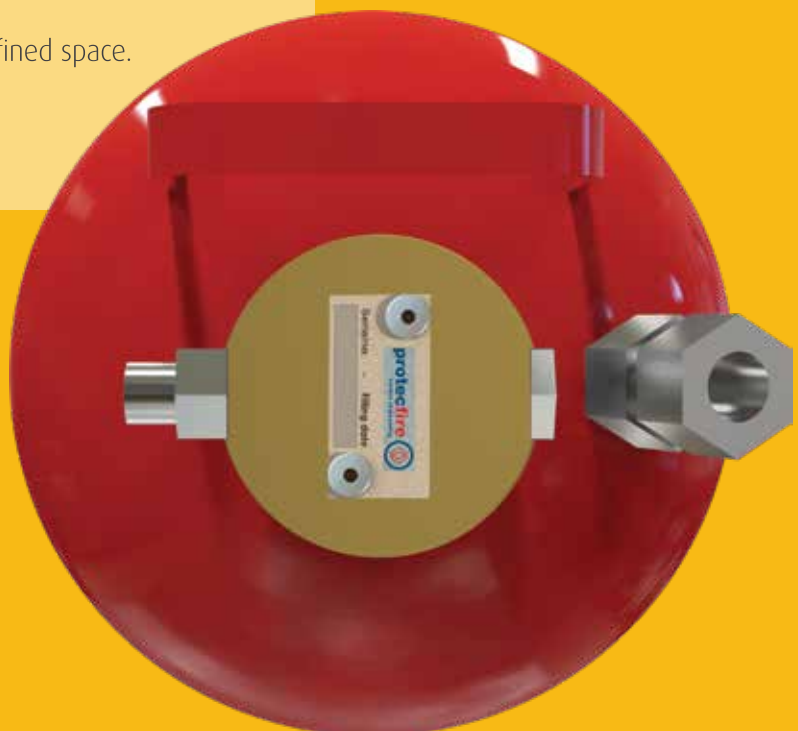
Made in Germany

2 Independent Lines (Detection / Extinguishing)

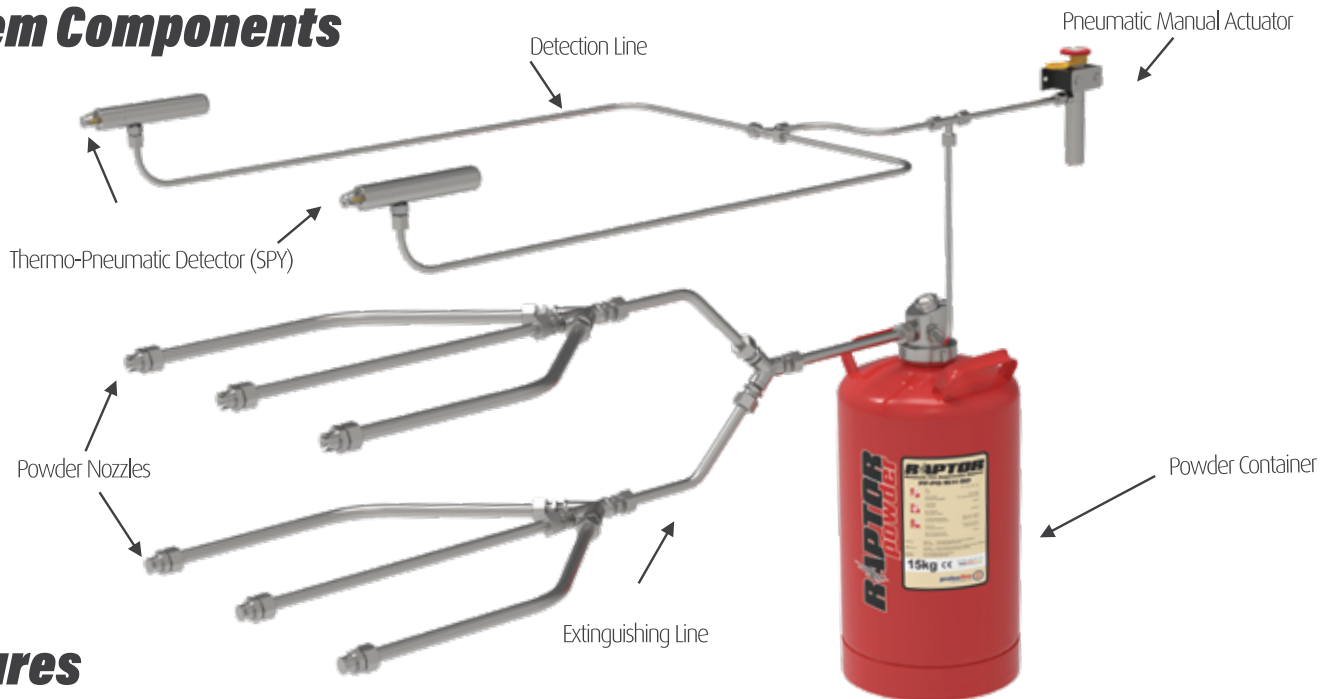
No Pressure

No Electricity

Stainless Steel



System Components



Features

No electricity

No electrical power in the system is needed

No pressure

No pressure in all pipeline

Maintenance free

Almost maintenance free, no parts need to be replaced for up to 5 years

Simple & Easy to install

Both for new system or retrofit and in a limited and confined space.

Temperature: -55°C to 80°C

Able to work in extreme adverse conditions

HIGH QUALITY

GERMAN ENGINEERING



2 Independent Lines (Detection / Extinguishing)

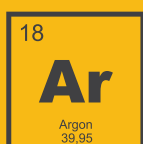
FIRE CLASS :



Available on:
6 kg
15 kg

Argon Gas Fire Suppression System

With one single pipeline!



Multiple Areas Protection Automatic Sectioned Protection by the Directional Control Valve

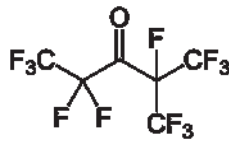
System only activates where the detection is triggered.

- Argon just goes where it is needed.
- More quantity is ejected where the fire is.
- Less cylinders are required.





FK-5-1-12



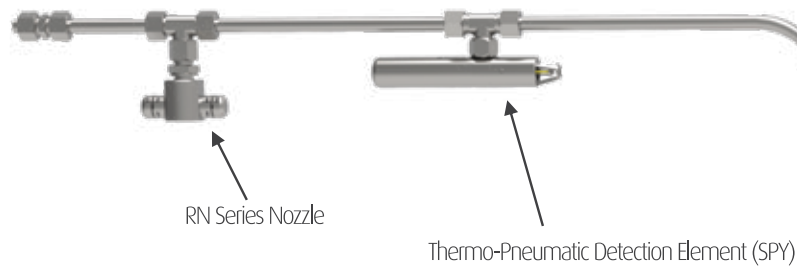
Non-electrical Conducting & Eco-friendly Protect 3.5m³ to 23m³ Electrical Cabinets.



System Components



Available on :
3L (3.5m³) \ 4L (4.6m³) \ 6L (7m³)
10L (11.5m³) \ 20L (23m³)



HIGH QUALITY

GERMAN ENGINEERING

Features

No electricity

No electrical power in the system is needed

No pressure

No pressure in all pipeline

Maintenance free

Almost maintenance free, no parts need to be replaced for up to 10 years

Simple & Easy to install

Both for new system or retrofit and in a limited and confined space.

Suppression agent: FK-5-1-12

Able to work for Electrical Cabinet Fire

Temperature: -30°C to 80°C

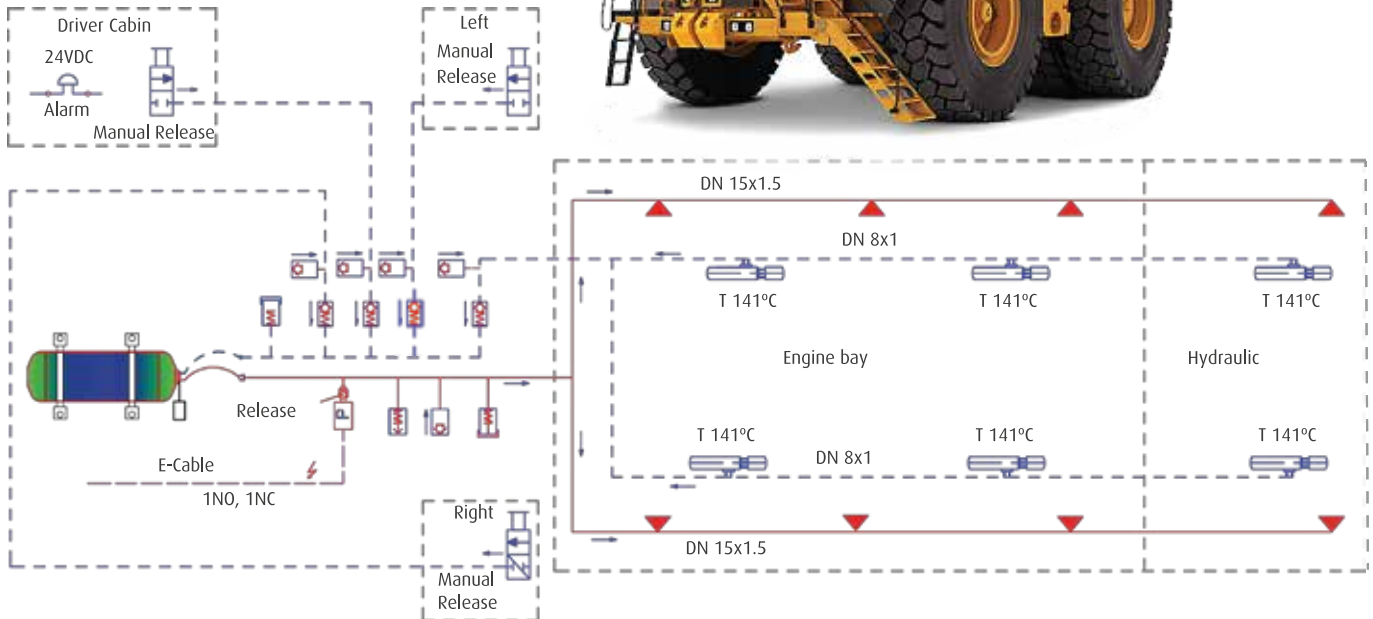
Able to work in extreme adverse conditions



Perfect fit installations



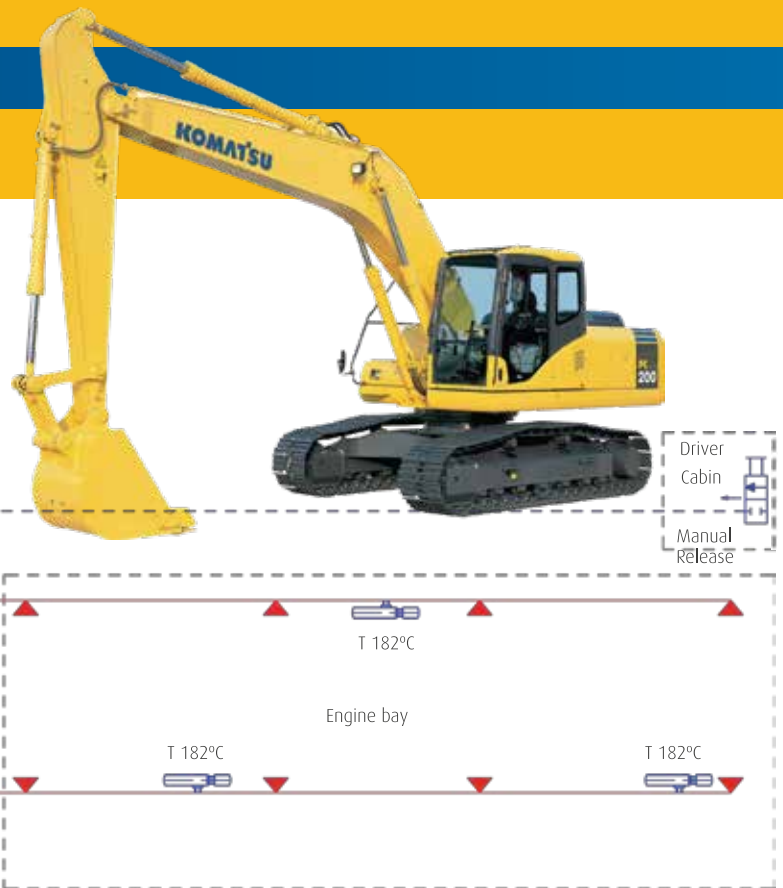
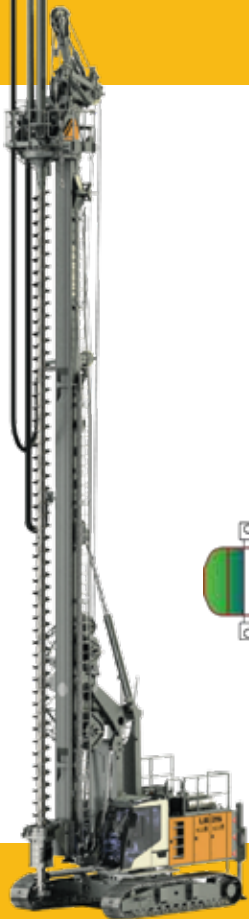
CAT Dump Truck



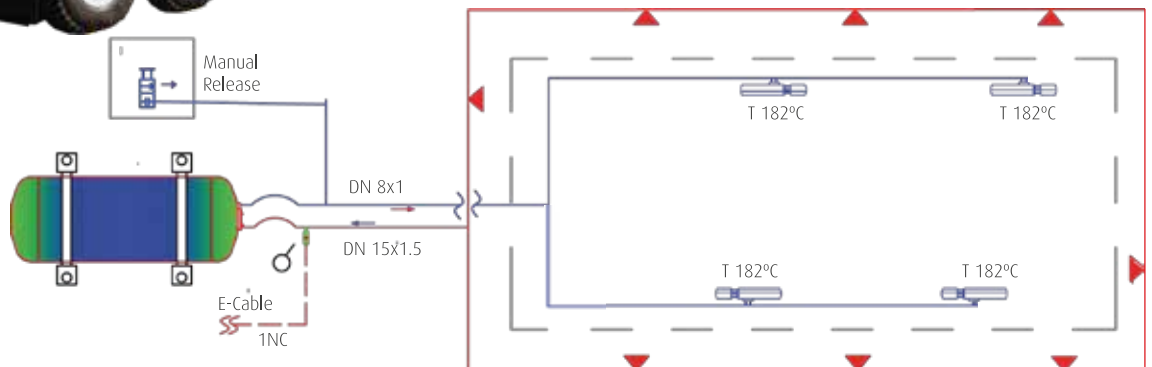
Rubber Belt Conveyor Protection



Excavator / Drilling Machine



Fracking Truck / Drilling Machine

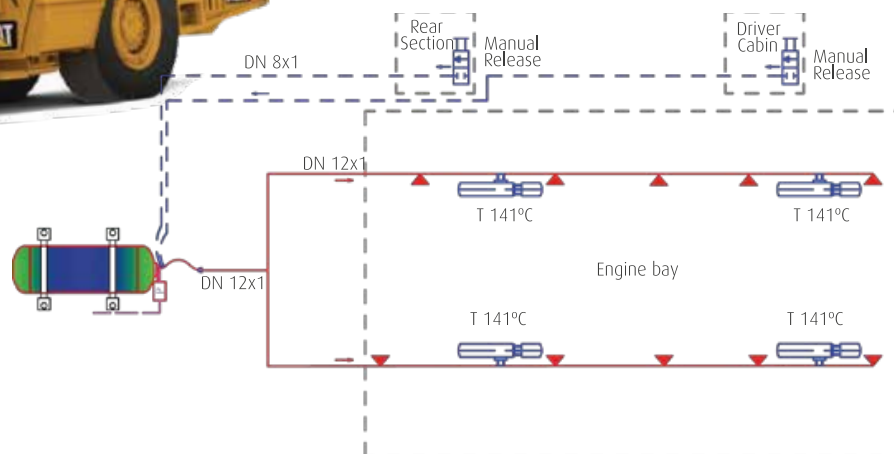


Tailor-fitted Systems

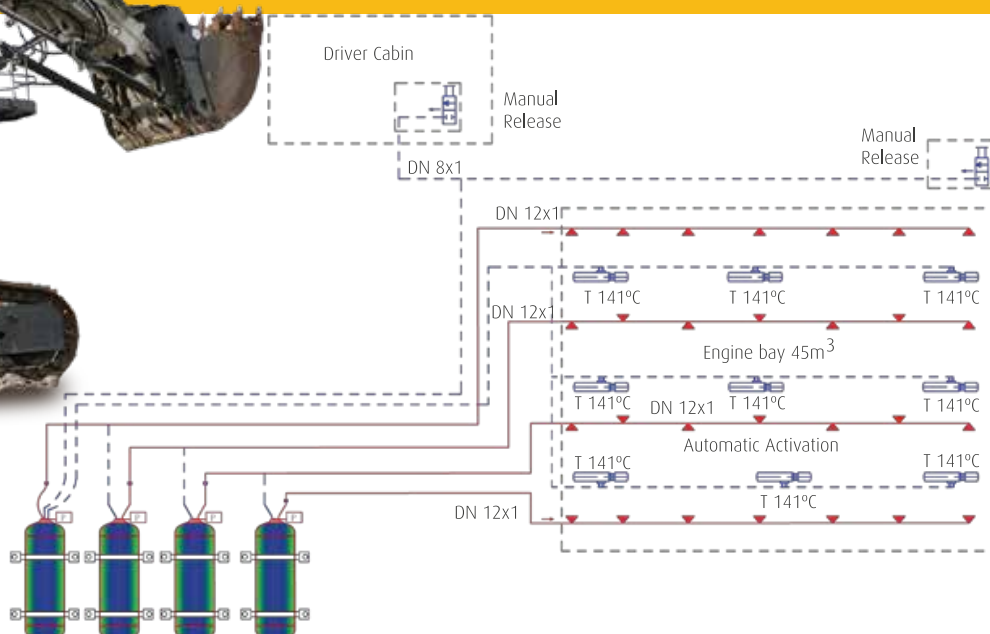
Protecfire develops custom tailored size installs.
All projects are studied before installation.



Underground Excavator



Excavator



tyre protection



underground mining



above ground mining



Certifications



SPCR183
SPCR199
AIS135
SBF127
UNECE R-107
EN17446

TÜVNORD

DMT



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