

wilo



WILO SiFire Product Compact

01 November 2016

WILO PUMPS KOREA

INTRODUCTION

- The fire protection market can be divided in two sub categories : **active fire protection** and **passive fire protection**.
- **Active fire protection** is the process of protecting a building from fire with systems that can be automatic or operated manually. They require some sort of action in order to work.
- Conversely, **passive fire protection** consists in containing fires through the use of, for example, fire-resistant walls, floors, and doors.
- Active fire protection equipment includes **sprinkler systems**, alarm and detection systems, fire extinguishers, fire hydrants and hose reels.

INTRODUCTION

- Fire fighting boosters are dedicated to **ACTIVE FIRE PROTECTION** for people, buildings and goods.
- Depending of the risk level and the type of building we have to use (or/and)

Hydrants



- Manual
- For water disposal
- Used by fire brigade
- Outside building



Hose reels



- Manual
- To attack fire
- Used by people or fire brigade
- Inside building



Sprinklers



- Automatic
- To delay the spread of fire
- Very often stops the fire
- Inside building

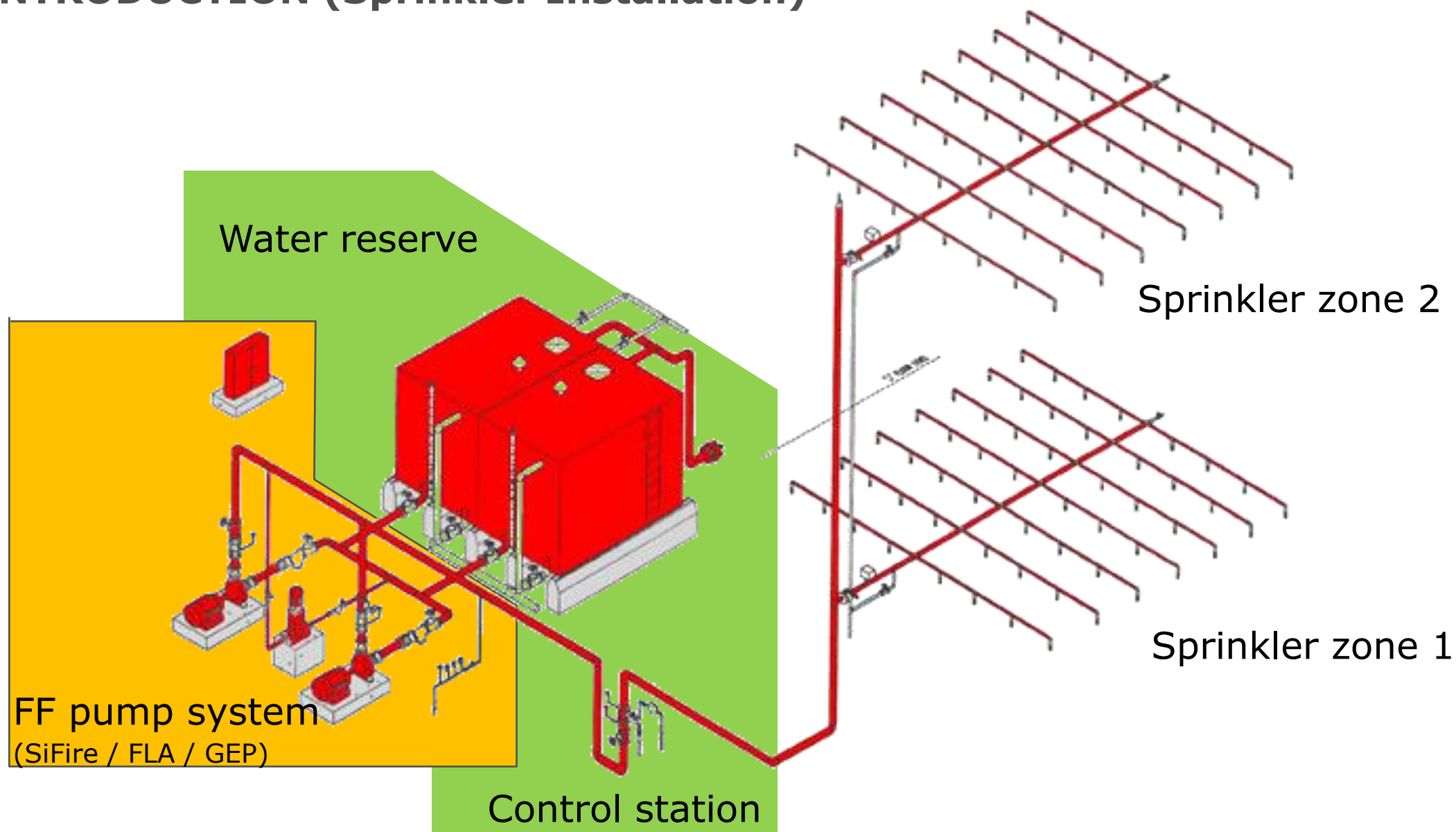


INTRODUCTION

- Sprinklers are since their invention in 1874 the most widely used and the most reliable automatic solution for an automatic fire protection.
- Sprinkler systems recognize the fire, start an alarm and control or suppress the fire.
- They spread only where it is necessary, ie in the immediate perimeter of the fire and spread instantaneously the water, so the building and its contents are protected .



INTRODUCTION (Sprinkler Installation)



WILO FFS Range

Building Services Commercial



Industrie



Wilo SiFire EN product description

- Standard pressure boosting system for Fire Fighting.
- Conform EN12845.
- EN12845 is the European standard level for Fire Fighting systems dedicated to Sprinkler installations.



New compact and rigid design

- 100% Wilo mastery
 - Ready for product evolution
 - Flexible for local adaptation
- Compact systems with
 - Smart control box colors
 - Smart HMI and red knob
 - 'Red Fire RAL3000' pumps
 - High quality electrozinc metal structure
 - Lateral bar for strong rigidity
 - Epoxy painted pipe works
 - Plastic cover on rear side
 - Hided cables

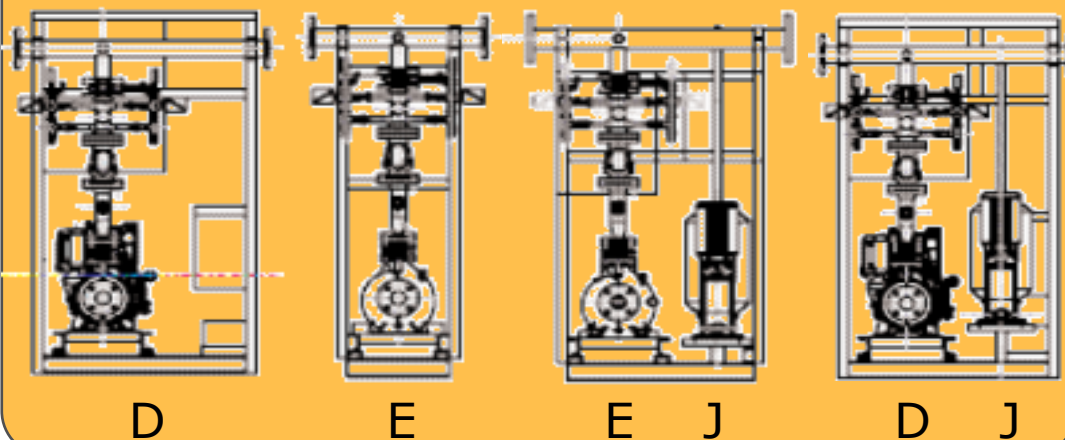


Wilo SiFire EN – A flexible range

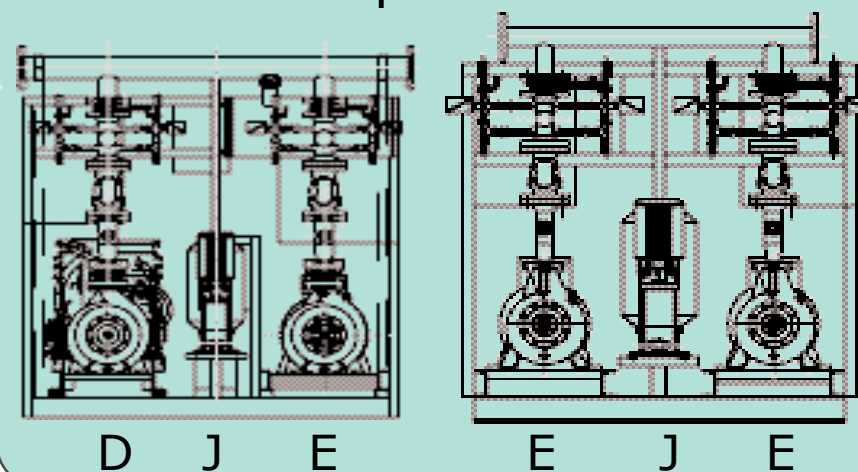
- High modularity for large offer with reduced internal complexity
- 6 Boosters architectures with **E**lectrical or **D**iesel motor driven pumps and **J**ockey pump



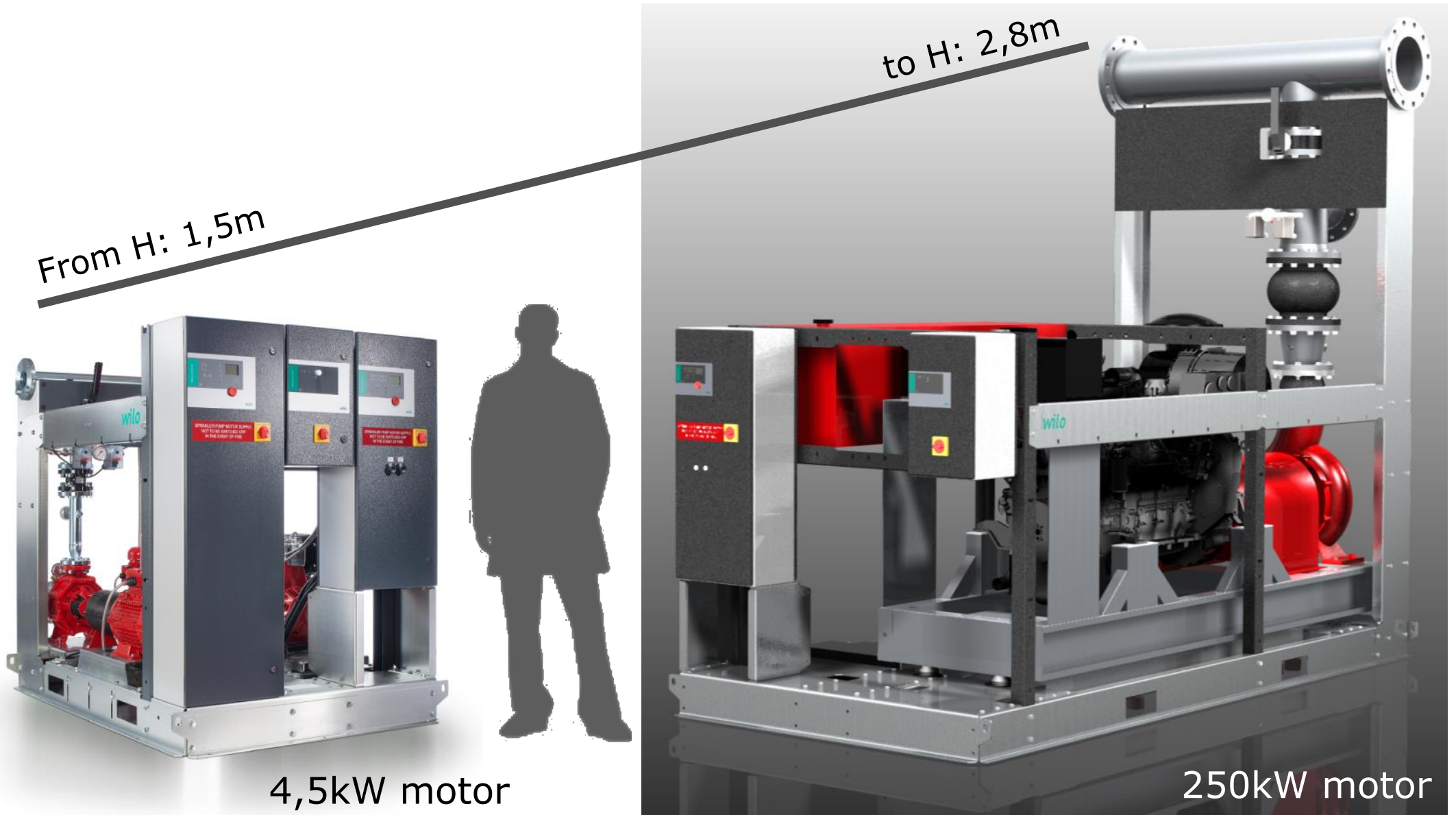
• 4 single models



• 2 compact models

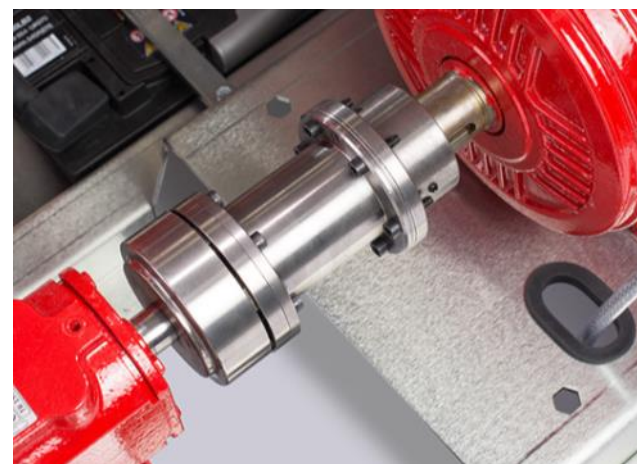
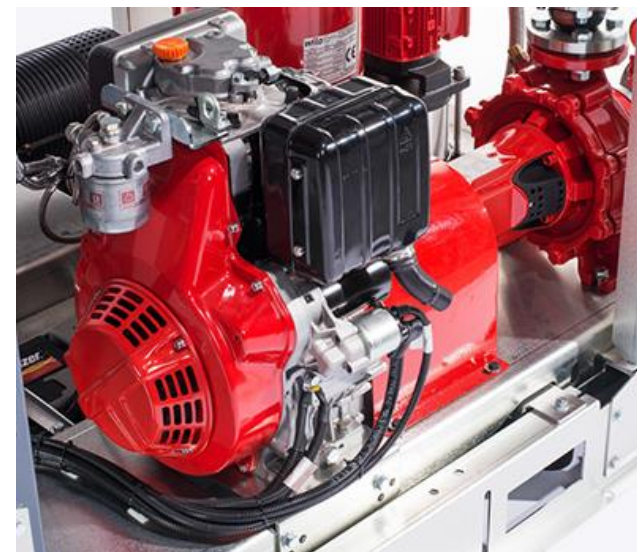


Wilo SiFire EN – Product scale



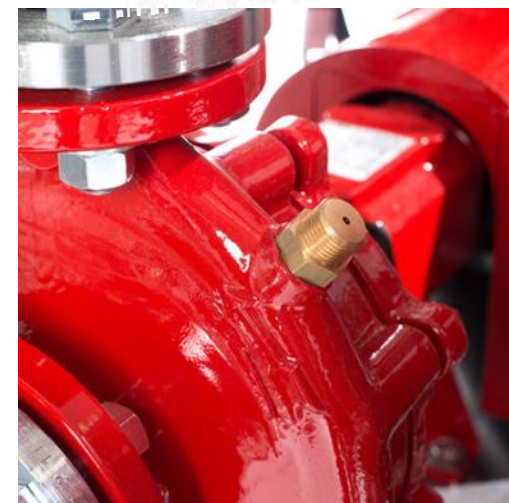
WNF – A reliable pumps for fire protection

- Main pumps with IE2 electrical motor plus diesel engine for safety purpose, calculated with large power reserve to guarantee work in case of hard running conditions.
- Spacer for all motor coupling to make possible easy access to pump internal parts without moving motor or pipes.



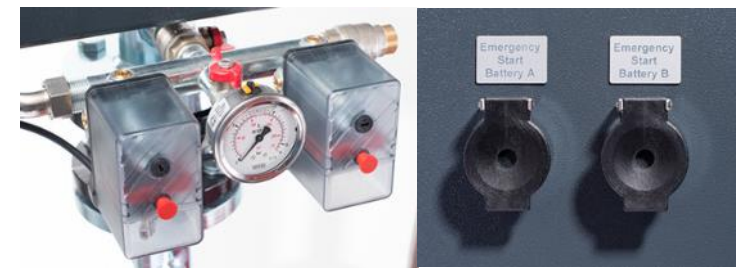
WNF – A reliable pumps for fire protection

- Robuste horizontal pump with AISI316 stainless steel impeller and bronze wear rings to ensure a long life time.
- High reliability with calibrated diaphragm on discharge side to protect the pump in case of low flow condition.



Wilo SiFire – Premium level equipment

- Jockey pump Wilo MVIL to maintain the necessary pressure in the installation with automatic start and stop.
- All main components are double for 100% reliability of main functions, such as pressure sensor or battery emergency start.



SC Fire – A new member of Wilo Smart Controller family

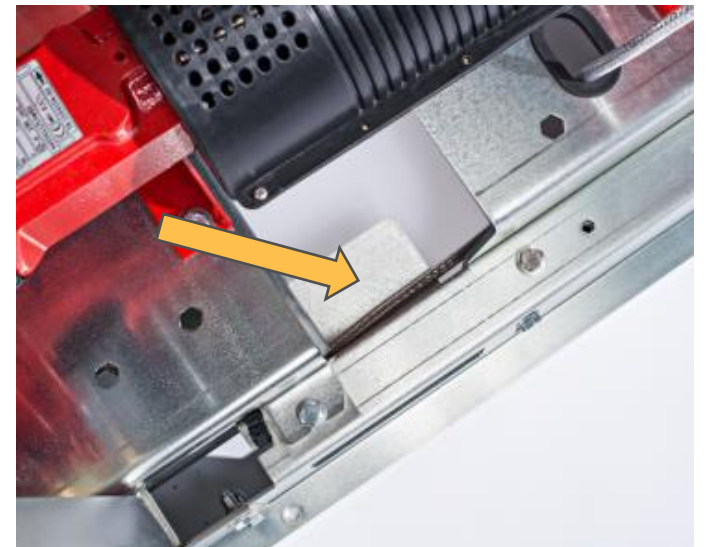
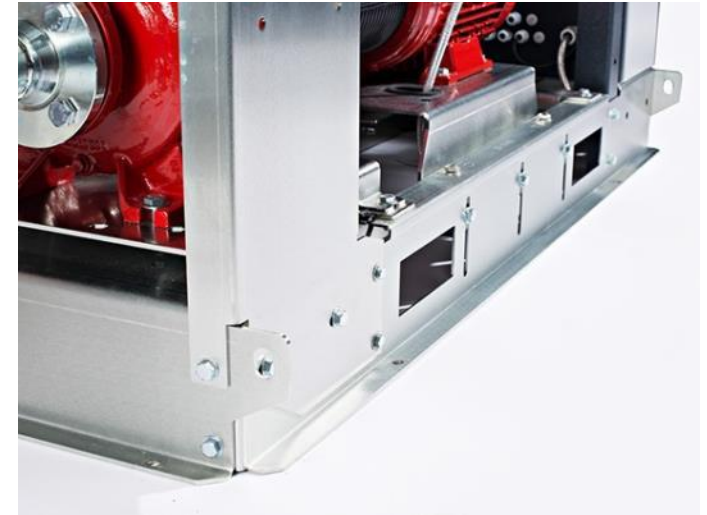
- Very high control quality and very simple operation with symbol-based LC display, well known rotary knob plus necessary informations for fire fighting functions.
- Wilo Group platform shared with other applications
-> Customer benefit: intuitive and easy use
- Optionnal communicate through
-> Customer benefit: surveillance 'ready to start'



Modbus®

Wilo SiFire – Easy installation, long life...

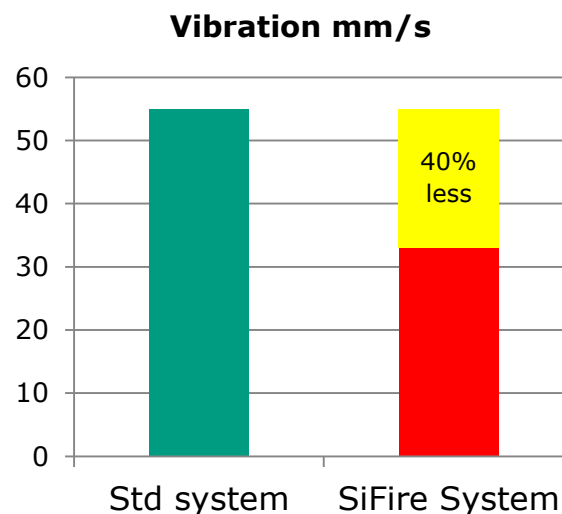
- Solid structure in special profile parts equipped to ease the transport with forklift or lifting strap
- A plate made of steel protects the cable when the forklift is carrying the SiFire



Wilo SiFire – Less vibration makes product long life...

- To absorb diesel vibrations

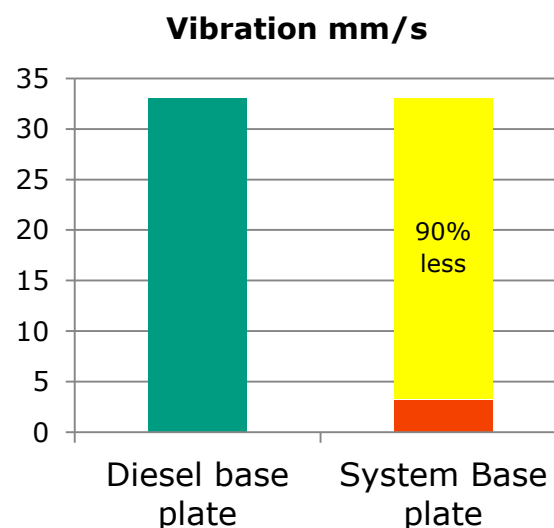
→ 40% better than a standard solution on the pump base plate



Standard base plate

- To reduce vibration transfert

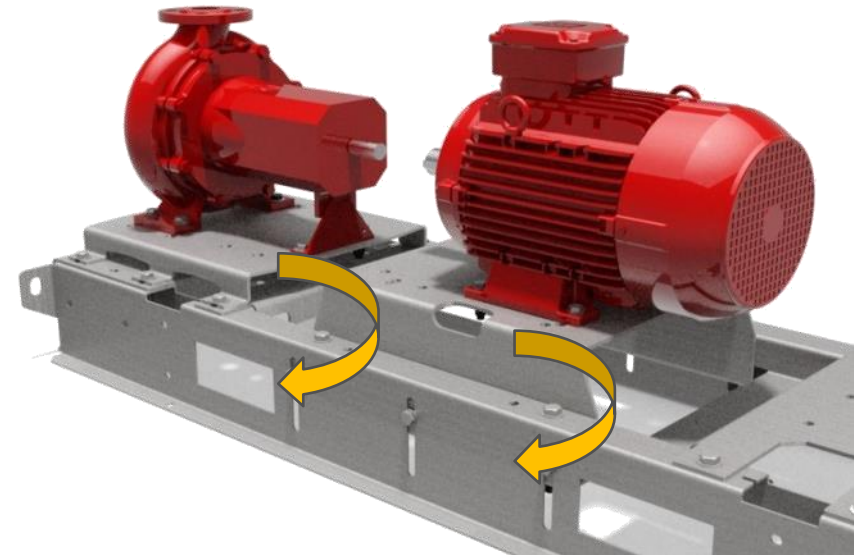
→ Special base plate for diesel engine is reducing 90% of vibrations transfer to protect the complete system and increase product reliability and life time.



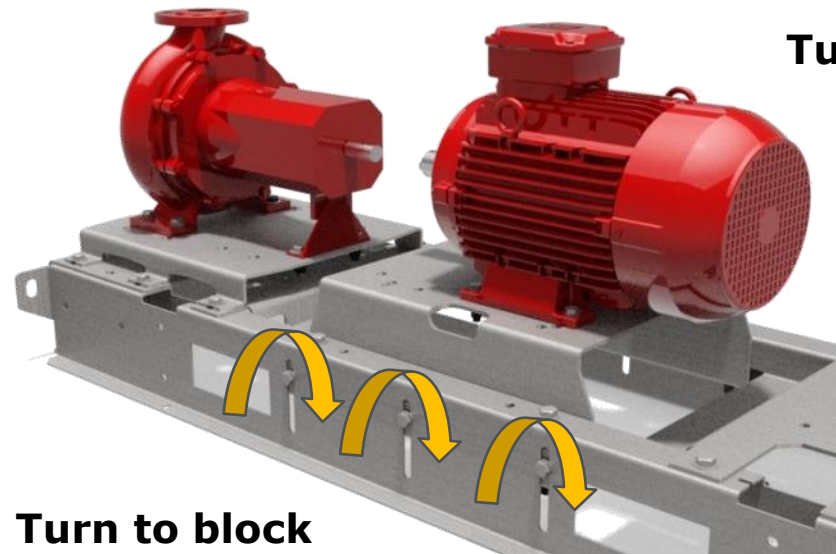
SiFire base plate

Wilo SiFire – Easy maintainance

- Special base plate for electric motor with adjustable height. Easy motor and pump axis alignment reducing time for maintenance.



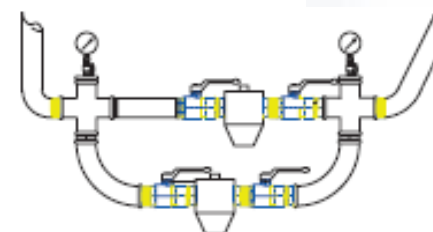
Turn to adjust



Turn to block

Wilo SiFire accessories

- Complete list of accessories
 - 500L priming tank
 - Eccentric cones for suction side
 - Valve with position contact
 - Mano vacuumeter
 - Antivibration sleeve
 - Flow meter
 - Alarm report level A & B
 - Silencer for diesel motor
 - Cooling circuit water/water for diesel motor.



Boosters compliant with the EN 12845 standard

- **Fire Room option**

- Equipped with SiFire
- Direct access from the outside
- At least 60 minutes fire resistant walls as required by EN 12845.
- Standards Compact design and large internal space
- Permanent and natural ventilation
- Easy to maintain, for ordinary or extraordinary inspections
- Maximum width is 2450mm. Easy to transport and install on site



Wilo SiFire – Technical datas

Item	Wilo SiFire
Number of main pump	1 or 2
- Electrical motor power P2 (kW)	4 to 250
- Diesel motor power P2 (kW)	4,25 to 246
Number of Jockey pump	1
- Electrical motor power P2 (kW)	0,55 – 0,75 – 1,1 – 1,5
Motor rotation speed (rpm)	2900
Flow range (m ³ /H)	From 15 to 750
Maximum head (m)	130
Maximum Nominal pressure (Bars)	PN10 / PN 16
Connections (mm)	DN65 – DN250
Product certification	CE
Fire Fighting Standard conformity	EN 12845-2009

Wilo Si family



Wilo SiFire EN



Wilo SiBoost Smart Helix V/VE/Excel

HPBS / COF

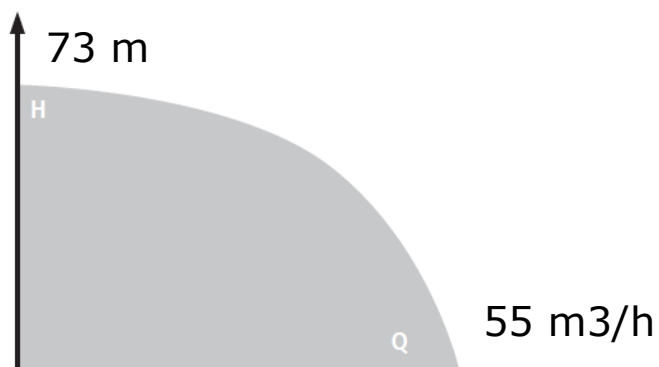


Product description

**Standard pressure boosting systems for firefighting Hydrant
Conform NFS 62201**

HPBS 32 - 40

Number of pump	2
Nominal flow	From 10 to 55 m ³ /h
Maximum head	73m
Motor	3~Electric
Maximum pressure discharge side	10 bars
Manifold	Galvanized
Connections	DN65



Wilo FLA



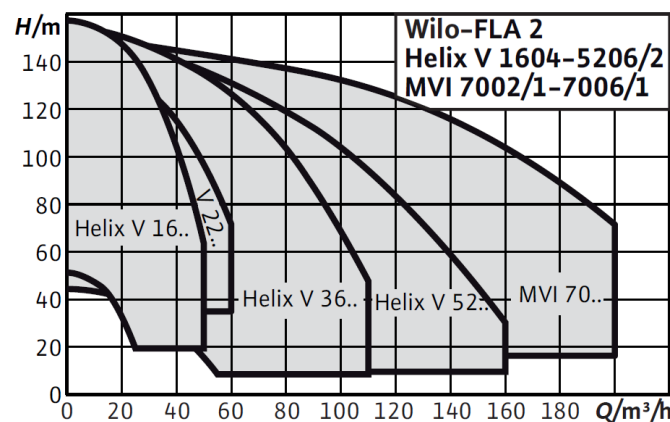
Product description

Standard pressure boosting systems for firefighting wall hydrants

Conform Din 14462

Wilo FLA

Number of pump	1 or 2
Nominal flow	10 → 130m ³ /h
Maximum head	135m at nominal flow
Tension	3~400V / 50Hz
Maximum pressure discharge side	16 bars
Manifold	Stainless steel 1.4571
Connections	R/Rp2 – DN125



Wilo FLA Compact



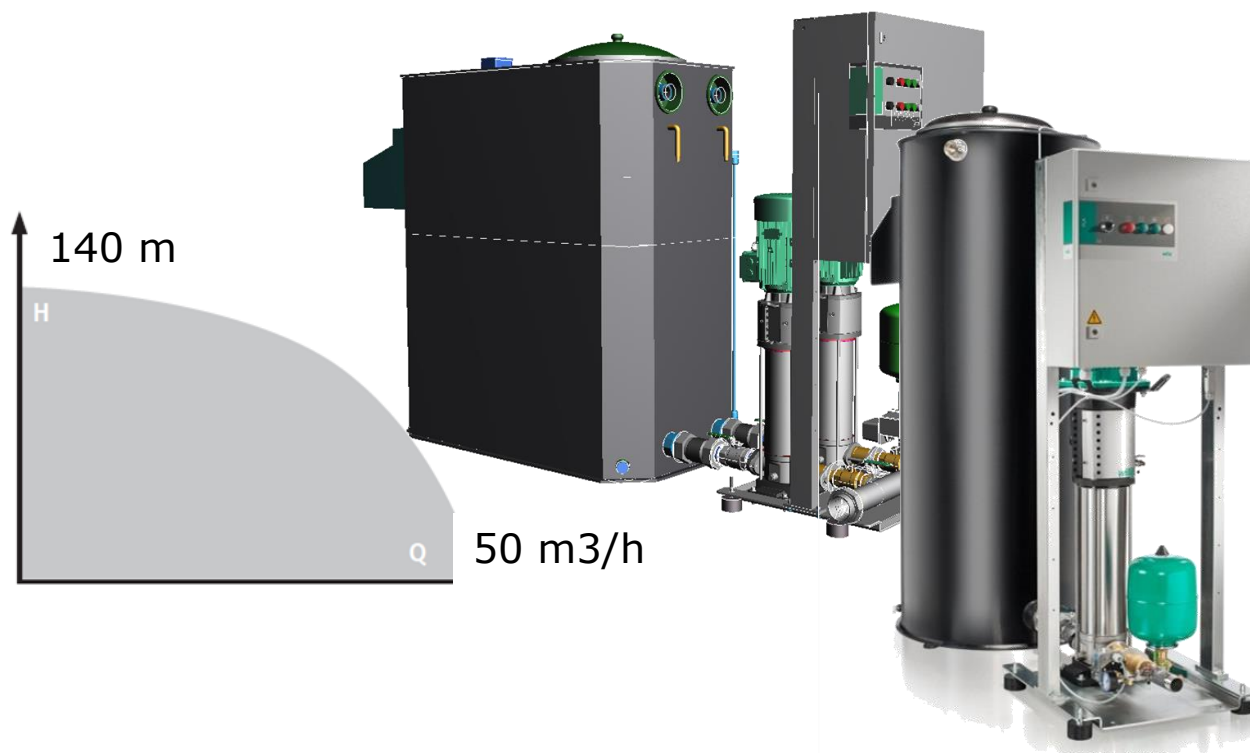
Product description

Standard pressure boosting systems for firefighting wall hydrants

Conform Din 14462

Wilo FLA Compact

Number of pump	1 or 2
Nominal flow	18 → 36 m ³ /h
Maximum head	140m
Tension	3~400V / 50Hz
Maximum pressure discharge side	16 bars
Manifold	Stainless steel 1.4571
Connections	R/Rp2 – DN125



Wilo GEP-Fire H



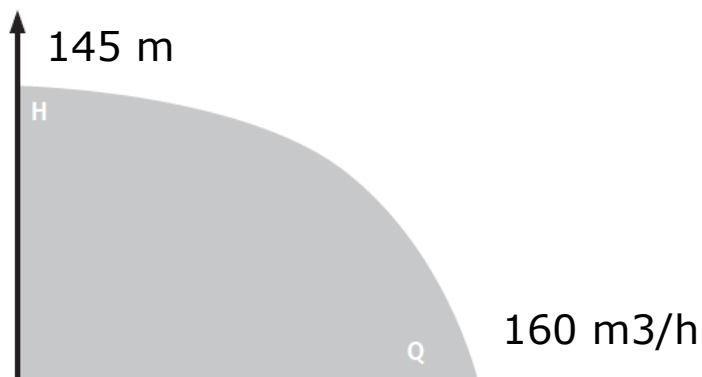
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Product description

**Standard pressure boosting systems for firefighting Hydrant
Based on Din 14462**

C300

Number of pump	1 or 2
Nominal flow	From 10 to 160m ³ /h
Maximum head	145m
Motor	3~Electric
Maximum pressure discharge side	16 bars
Manifold	Stainless steel
Connections	DN65 → DN100



Wilo GEP-Fire S

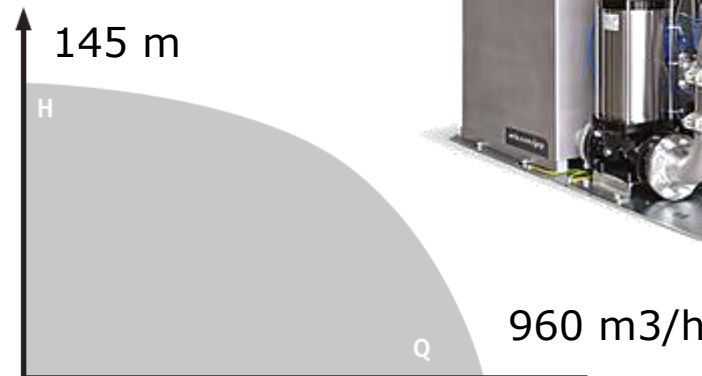


Product description

Standard pressure boosting systems for firefighting Sprinkler
Based on EN 12845

C300

Number of pump	1 or 2
Nominal flow	Up to 960 m ³ /h
Maximum head	145m
Motor	3~Electric
Maximum pressure discharge side	16 bars
Manifold	Stainless steel
Connections	DN65 →



SiFire Case story – France

- Project Name: **Orly Sud – Extension Est**
- Location: **Paris France**

- Application: **Sprinkler** for new terminal

- Product:
SiFire-EN-65/250-240-37/37/1,1EEJ



- Project Name: **SITOM– Gard Sud**
- Location: **Nîmes France**
- Application: **RIA** for rubbish treatment plan

- Product:
FireSKID-EN-40/200-200-11/12,9/0,75EDJ



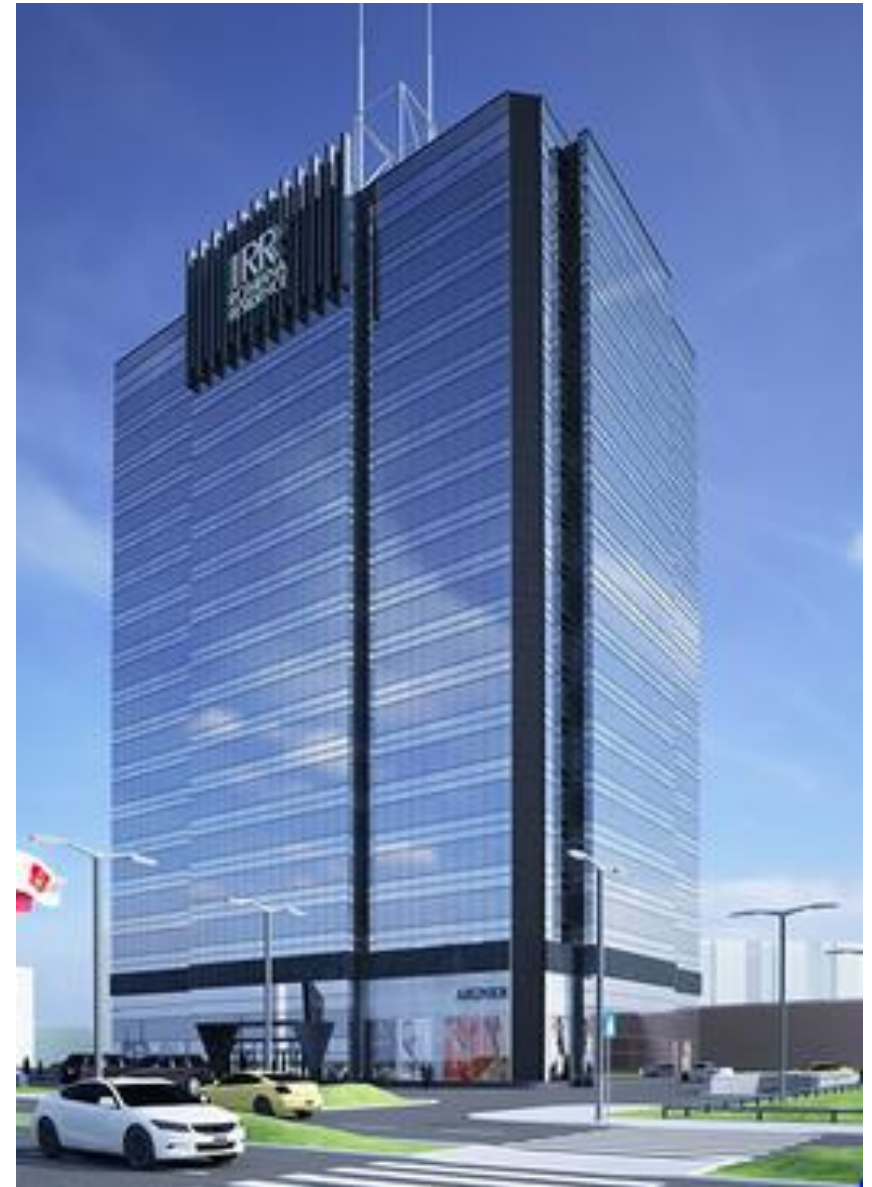
SiFire Case story – Mongolia

- Project Name: **Nubia Airport**
- Location: **Ulaanbaatar, Mongolia**
- Market Segment: **Building Services**
- Customer group: **Installer**
- Application: **Sprinkler** for Terminal, Control tower, Operation building, Fire station, Water treatment plan.
- Products:
7x SiFire EN 32/200 - 50/250 - 80/250 - 100/250



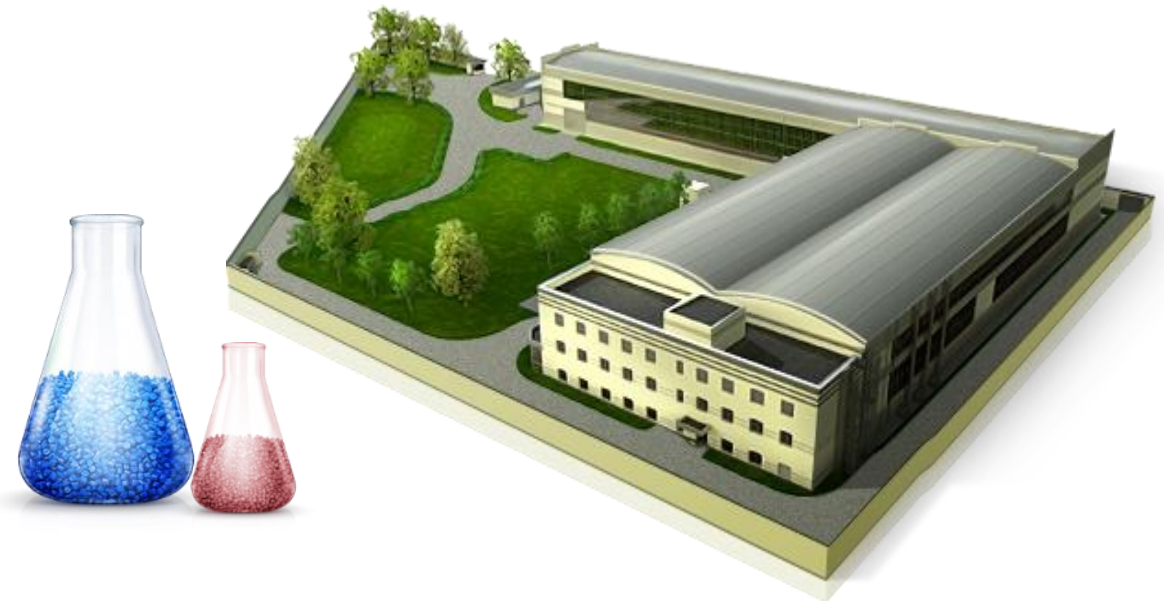
SiFire Case story – Mongolia

- Project Name: **Romana Residence**
- Location: **Ulaanbaatar, Mongolia**
- Market Segment: **Building Services**
- Customer group: **Installer**
- Application: **Sprinkler** for residential building, shopping center, car park, ...
- Product installed:
SiFire EN 65/315-292-75/75/1,5 EEJ



SiFire Case story - Uzbekistan

- Project Name: **AVTOSANOAT-CEPLA**
- Location: **Tashkent, Uzbekistan**
- Market Segment: **Industry**
- Customer group: **Installer**
- Application: **Sprinkler** and **Hydrant**
- Execution with **Split Case** Pump
- Product:
2 SiFire S 125/335-327-315/315/5,5EEJ



- Polypropylene compound for Car Industry



SiFire Case story - Romania

- Project Name: **Bucharest One**
- Location: **Bucharest, Romania**
- Market Segment: **Building Service**
- Customer group: **Installer**
- Application: **Sprinkler** and **Hydrant**
- Execution with **Ring Section** pump for 16 and 17,5 bars
- Product:
2 SiFire EN-M-125L-2-23-132/4 EJ
1 SiFire M-65-5-12-45/45/4 EEJ



SiFire Case story – Ethiopia

- Project Name: **AWASH BANK Head Office**
- Location: **Addis Ababa, Ethiopia**
- Market Segment: **Building Services**
- Customer group: **Distributor**
- Application: **Sprinkler** for building
- Product installed:
SiFire EN 50/250-257-30/31,5/1,1EDJ



SiFire Case story – Cameroun

- Project Name: **Retrofit CAMTEL building**
- Location: **Cameroun**
- Market Segment: **Building Services**
- Customer group: **Contractor**
- Application: **Sprinkler** for building
- Product installed:
SiFire EN-65/250-259-55/55/1,1EEJ



SiFire Case story – South Africa

- Project Name: **Sol Plaatjie Universiteit**
- Location: **South Africa**
- Market Segment: **Building Services**
- Customer group: **Contractor**
- Application: **Sprinkler** for building
- Product installed:
SiFire EN 65/250-240-37/47.7/1.1
SiFire EN 65/250-252-45/47.7/1



SiFire Case story – Congo

- Project Name: **SOCOMETAL KINSHASA**
- Location: **Congo**
- Market Segment: **Industry**
- Customer group: **Contractor**
- Application: **Sprinkler** for foam factory
- Product installed:
SiFire EN-80/200-192R-31,5D



Thank you for your attention

