



GRUNDFOS

FIRE PROTECTION SYSTEMS

FULL RANGE EXPERTISE

FIRE PUMPS FOR EVERY STANDARD



BE > THINK > INNOVATE >

GRUNDFOS 

FIRE PROTECTION SYSTEMS

INTRODUCTION

GRUNDFOS FIRE PUMPS SUPPLY HIGH-CLASS SAFETY TO CLIENTS AROUND THE WORLD. OUR EXPERTISE SPANS THE GLOBE AND COVERS ALL UL-FM APPROVED FIRE SYSTEMS

With Grundfos as your fire system supplier, you can rest assured that your system lives up to the highest international standards of quality. We have products that comply with your every need and the following approvals:

- PSB
- VNIIPO
- CCCF
- APSAD
- CEPREVEN
- VdS
- UNI
- LPCB
- EN 12845
- CNBOP
- FM
- UL
- NFPA 20



WE HAVE DOUBLED UP THE KNOW-HOW

Two experts for the price of one

Grundfos is a proud company with an extensive history of pump manufacturing and innovation. In order to further develop our expertise within fire systems, we've recently acquired another proud company with a famous 100-year history in the fire pump industry – the American pump icon, Peerless.

Peerless has extensive experience with fire pumps of the NFPA 20 standard and FM-UL approved systems. It is also a company that shares the Grundfos values of superior quality products, strong customer focus, and an in-depth understanding of the realities of fire protection.



Global presence

Grundfos secures efficient and direct deliveries to the construction sites of all our European customers, and with a sales and service centre in every market, Grundfos is never far away.

Our competence centre in Wahlstedt, Germany, is at the heart of fire competence in Europe. Here we manufacture and test FM and VdS approved systems. Comprehensive on-site design, testing and a full range of customer training facilities are also provided.

SERVICE AND EXPERTISE We cover the world



FIRE PROTECTION SYSTEMS

THE DETAILS

ELECTRIC FIRE PUMP – FM APPROVED

Electric fire pump controller

- FM approved controllers as standard with CE-mark designed to comply with NFPA 70
- Standard NEMA 2 enclosure – corresponds to IP 42
- Micro-processor based logic and pressure/event recorder (printer) as standard

Optional

- UL listings and CSA approval
- Starting options : Star delta, part winding, soft start, auto transformer
- USB communication port (7 days event and 15 days pressure)

Electric motor

- Power safety factor and high reliability
- Grundfos IEC motor accepted by FM
- High reliability Grundfos IEC motor accepted by FM

Optional

- UL Listed motor for Fire

Coupling

- Flexible pin coupling design from Flender, accepted by FM
- Maximum operational reliability (fail-safe)
- Prevents shaft stress by compensating for shaft mis-alignment

Base frame

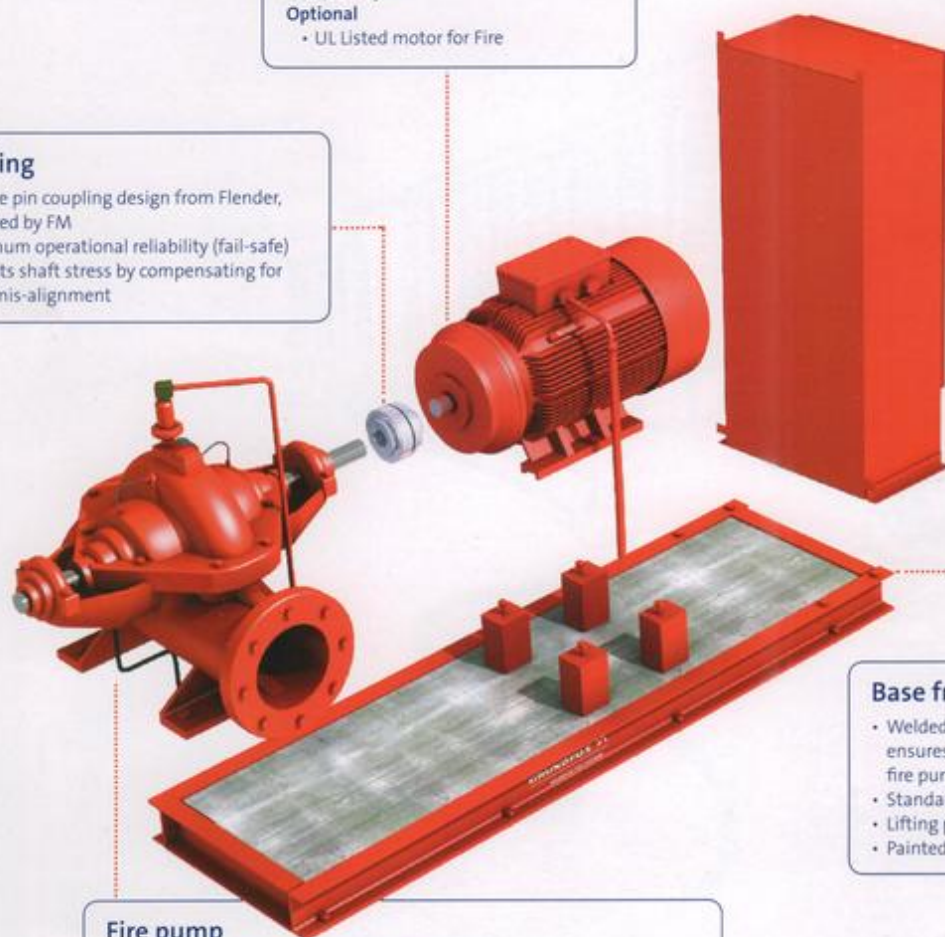
- Welded frame with a rigid design that ensures easy alignment on-site for driver, fire pump and controller
- Standard non-drip frame (open)
- Lifting points for easy transportation
- Painted in red RAL 3000 paint

Fire pump

- FM approved to NFPA 20 as standard
- Factory performance and hydrostatic tested
- Designed for highest efficiency, easy maintenance and service
- Quick delivery pump programme for end-suction and split-case models
- Available as in-line and vertical turbine pumps
- With ANSI flanges (End Suction pumps with DIN flanges as standard)

Optional

- UL listing for fire
- Adapters for DIN flanges



DIESEL FIRE PUMP – FM APPROVED

Diesel motor

- FM approved John Deere motor with industrial silencer and flexible exhaust
- Power safety factor is per NFPA 20
- To ensure optimal performance, each diesel fire pump set is tested at our test bed at rated flow after final pump assembly
- Engine is cooled by a heat exchanger to ensure proper operation

Optional

- UL listing
- Residential silencer
- Other engine brands

Fuel tank

- Designed and sized according to NFPA 20
- Single wall as standard

Optional

- Single wall with collection basin
- Double wall tank
- UL listing

Diesel fire pump controller

- FM approved controllers with CE-mark as standard
- Standard NEMA 3R enclosure, corresponding to IP 24
- Thru-the-door thermal printer for 7-day pressure / 15 day event recorder date retrieval
- Simple start-up and maintenance procedures

Optional

- UL listing

Coupling

- Flexible pin coupling design from Centraflex, accepted by FM
- Maintenance free
- Allows shaft movement in axial, radial and angular directions
- Maximum operational reliability (fail-safe)

Optional

- UL listed couplings

Battery set

- Two battery sets (lead acid) 24 volt provide redundant power supply and ensure full reliability
- Sized according to NFPA 20

Optional

- Nickel cadmium batteries

Base frame

- Welded frame with a rigid design that ensures easy alignment on-site for driver, fire pump and controller
- Drip rim base (closed) as standard
- Lifting points for easy transportation
- Painted in red RAL 3000 paint

Fire pump

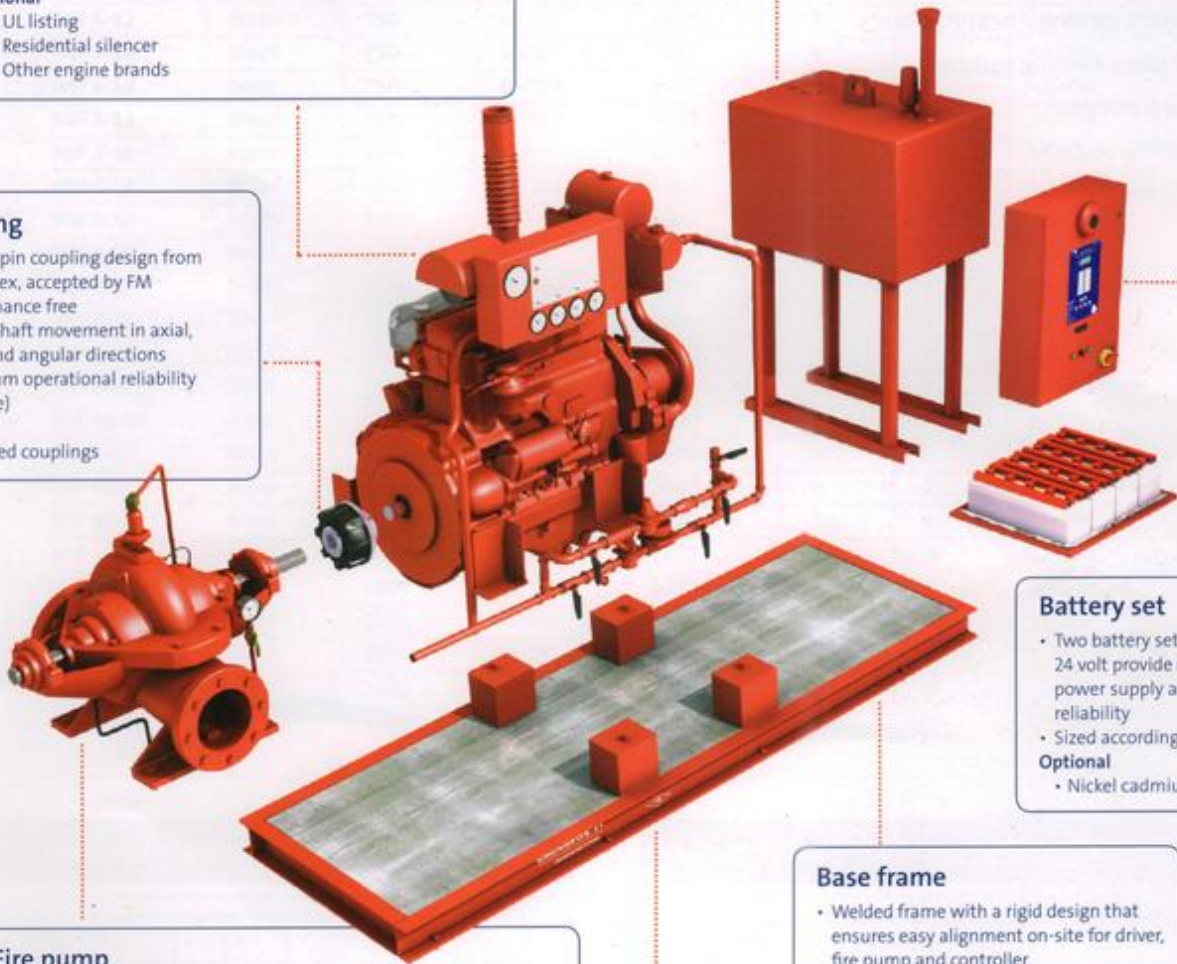
- FM approved as standard
- Factory performance and hydrostatic tested
- Designed for highest efficiency, easy maintenance and service
- Quick delivery pump programme in end-suction and split-case models

Optional

- UL listing
- In-line and vertical turbine pumps
- Adapters for ANSI – or DIN flanges

FM authorised

- The FM logo ensures that the diesel fire pump is assembled with FM approved components and at an OEM and FM approved and authorised manufacturing facility



FIRE PROTECTION SYSTEMS

VERSATILITY

RELIABILITY ACROSS THE FULL RANGE

Full-line supplier

Grundfos produces fire pump systems for:

- Fire hose reels
- Fire hydrants
- Fire sprinklers

We design and build systems ranging from simple pump-driver systems on a base frame to highly engineered and fully enclosed, packaged systems. We are proud to have the widest range of fire pump approvals and listings worldwide, and our expertise enables us to engineer, produce, stock, distribute and service our products all over the world.

There are three main reasons for choosing fire pumps that are approved and certified by accredited third party authorities. Firstly, based on the massive experience embodied in leading fire protection, regulations and codes, approved systems reduce the risk of damage to life and property in the case of fire.

Secondly, approved systems provide maximum reliability and superior quality. Thirdly, using approved and listed fire pumps typically reduces insurance rates significantly.

When third party approval is not required for a fire pump installation, Grundfos can supply non-listed fire systems that comply with specific fire standards.

BEYOND STANDARD PRODUCTS

At Grundfos, we have always considered a complex project a great challenge. That is why we offer completely customised solutions that match the requirements of even the most complicated tasks.

Expanded quick delivery programme

Our quick delivery programme contains more than the electrically or diesel-driven End Suction and Horizontal Split Case pumps. We also supply:

- In-Line fire pumps
- Vertical Turbine pumps (for wet pit applications, or applications where positive inlet pressure is not available)

Modularised systems

Grundfos designs and builds customised systems that meet your specific needs. We mount the fire pump, driver, controller and piping with complete interconnected wiring on a common base or a modularised base frame for final assembly on location.

Packaged / containerised systems

With Grundfos' enclosed systems, your installation-to-operation time is minimal. Our enclosed systems are typically built as an integrated pump and control centre with:

- Diesel engine
- All the required controllers
- In-house piping
- Fittings
- Interconnected wiring
- A complete installation that meets the requirements of UL, FM, NFPA 13 and NFPA 20



MARK GRUNDFOS FIRE PUMP

UL LISTED / FM APPROVED

Product	Listing Country	Rated Capacity, (gal/min)	Rated Net Head at Rated Capacity, (psi)	Rated Speed, (r/min)	Suction Inlet, dia., (in.)	Discharge Outlet, dia., (in.)	Certification Type
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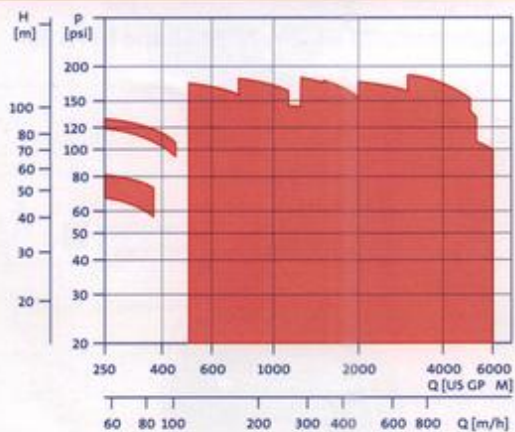
Centrifugal Fire Pumps, Horizontal End-Suction Type

DNF 65-20	Brazil	250	66-80	2900	4	2 1/2	FM
DNF 65-25	Brazil	250	116-130	2900	4	2 1/2	UL/FM
DNF 65-25	Brazil	300	119-129	2900	4	2 1/2	UL/FM
DNF 80-20	Brazil	500	64-75	2900	5	3	UL/FM
DNF 80-25	Brazil	500	101-125	2900	5	3	UL/FM

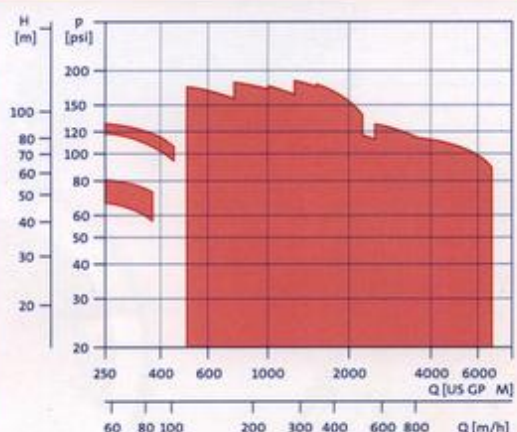
Centrifugal Fire Pumps, Horizontal Split-Case Type

HSF 6-12	Brazil	500	40-49	1450	8	6	FM
HSF 6-12	Brazil	750	44	1450	8	6	UL/FM
HSF 6-16	Brazil	750	54-88	1450	8	6	UL/FM
HSF 6-18	Brazil	750	60-104	1450	8	6	UL/FM
HSF 5-11	Brazil	750	67-127	2900	6	5	UL/FM
HSF 6-16	Brazil	1000	50-86	1450	8	6	UL/FM
HSF 6-18	Brazil	1000	83-103	1450	8	6	UL/FM
HSF 6-12	Brazil	1000	109-194	2900	8	6	UL/FM
HSF 6-18	Brazil	1250	76-98	1450	8	6	UL/FM
HSF 6-12	Brazil	1250	104-187	2900	8	6	UL/FM
HSF 6-18	Brazil	1250	162-191	2000	8	6	UL/FM
HSF 8-20	Brazil	1500	75-101	1450	10	8	UL/FM
HSF 8-20G	Brazil	1500	79-123	1450	10	8	UL/FM
HSF 10-20	Brazil	1500	95-118	1450	12	10	UL/FM
HSF 6-12	Brazil	1500	115-179	2900	8	6	UL/FM
HSF 6-18	Brazil	1500	188	2000	8	6	UL/FM
HSF 8-17	Brazil	2000	56-86	1450	10	8	UL/FM
HSF 10-20	Brazil	2000	93-116	1450	12	10	UL/FM
HSF 8-20G	Brazil	2000	94-120	1450	10	8	UL/FM
HSF 10-16	Brazil	2500	49-81	1450	12	10	UL/FM
HSF 10-20	Brazil	2500	88-111	1450	12	10	UL/FM
HSF 10-16	Brazil	3000	46-79	1450	12	10	UL/FM
HSF 10-16	Brazil	3500	59-76	1450	12	10	UL/FM

Performance range of electric fire pumps 50 Hz



Performance range of diesel fire pumps



GRUNDFOS

FIRE PROTECTION SYSTEMS

Grundfos is a full-line fire system supplier that fully complies with a globally recognised list of approvals and listings. We design, manufacture and service our fire pump systems all over the world, and our products are renowned for their quality, high performance and reliability.

Grundfos application areas:

- Industrial plants
- Public water supply
- District cooling / heating plants
- Air-con / heating systems
- Fire protection
- Cooling systems
- Irrigation



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