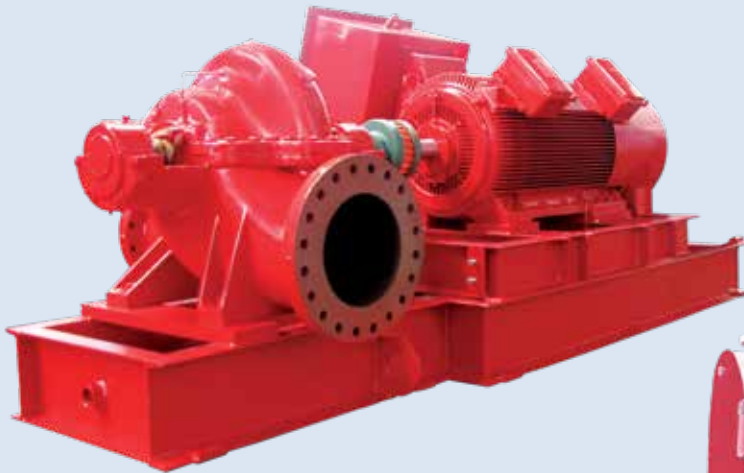




Specialist for Pumping Technology



FIRE SYSTEMS

Ruhrpumpen Fire Systems

Fire pumps play a vital role as the first line of response in fire situations, helping save lives and protect property from destruction. They are commonly installed in manufacturing and industrial facilities, residential complexes, power plants, schools, hospitals, airports, commercial buildings, and offshore oil platforms.

A fire pump supplies the water flow and pressure required for sprinklers and hose standpipes to control or contain a fire. Ruhrpumpen's centrifugal pumps combine advanced hydraulic design with decades of experience to meet today's demanding fire protection standards.

When fire protection is critical, customers demand proven performance, compliance confidence, and equipment designed for long-term reliability. Ruhrpumpen fire pumps are engineered in accordance with NFPA 20 installation practices and performance expectations, including the requirement to deliver 150% of rated flow at no less than 65% of rated head. In full compliance with NFPA 20, these systems provide flow ranges from 25 to 5,000 GPM with net pressures of 40 PSI or greater and are available as single units or complete pre-packaged fire pump systems, with or without full enclosure.



Single source responsibility and service

Backed by a highly experienced engineering team, ISO 9001 certified manufacturing, and robust design and construction, Ruhrpumpen fire pumps and systems deliver exceptional reliability when it matters most.

Through Ruhrpumpen's Global Service Network, customers benefit from comprehensive field support including start-up, inspection, and maintenance services, assuring optimal performance at any location worldwide.

Time and space saving

Our cost-effective packaged fire pump systems save both time and space by being precisely engineered to fit the specified installation area, simplifying on-site installation. Each system is delivered in a single shipment, requiring only piping and power connections to be completed in the field.

Fully customizable

To meet the specific requirements of each application, Ruhrpumpen's engineering team designs complete pre-packaged fire pump systems ranging from skid-mounted units with electric drivers to fully prefabricated solutions with environmental enclosures.



Ruhrpumpen: Your Single-Source Supplier

- Original Equipment
- Spare Parts
- Installation and start-up support
- Repair and maintenance services
- Engineering, training, and consulting

Benefits of our pumps:

- Proven Reliability
- High-Efficiency designs that help minimize operating costs
- Robust construction for long system life with minimal maintenance
- Optimized total cost of ownership



Before it's painted red...

Nothing is left to chance with a Ruhrpumpen fire pump system. Each system is fully assembled, tested, certified, and validated with detailed performance data generated at Ruhrpumpen facilities to ensure full compliance with the stringent requirements of governing and certifying bodies, including the National Fire Protection Association (NFPA), Factory Mutual (FM), Underwriters Laboratories (UL), and Electrical Testing Laboratories (ETL).



During manufacturing and assembly, each fire pump undergoes strict production controls, detailed inspections, and comprehensive testing. Advanced testing methods and precision calibration instruments are used to verify performance and ensure full compliance with applicable industry standards.

- Engineering calculations for bearing life, bolt stress, shaft deflection, and shear stress are submitted to and approved by UL and FM.
- Pump casings are hydrostatically tested at twice the rated maximum working pressure.
- Performance testing is witnessed by UL and FM representatives.
- UL and FM conduct quarterly follow-up audits of products and manufacturing facilities.
- Drawings for any component listed on the Primary Materials List must be approved prior to any design or material changes.

Ruhrpumpen Fire Pumps: the heart of your fire protection system



Horizontal Split Case Fire Pump

Horizontal, single and two stage, split case centrifugal pumps

Characteristics

- UL listed
- FM Approved
- NFPA-20 Compliant
- Flows from 150 to 5,000 GPM
- Pressures from 40 to 355 + PSI
- Head up to 250 m (820 ft)
- Temperatures up to 105 °C (220 °F)
- Electric or diesel driven
- Factory Tested

Benefits

- Easy installation and maintenance.
- Suitable for a wide range of applications.
- Construction materials available for seawater service.



Horizontal End Suction Fire Pump

Horizontal, single stage, end suction centrifugal pumps

Characteristics

- UL listed
- FM Approved
- NFPA-20 Compliant
- Flows from 150 to 400 GPM
- Pressures from 40 to 275 + PSI
- Head up to 193 m (635 ft)
- Temperatures up to 315 °C (600 °F)
- Electric or diesel driven
- Factory Tested

Benefits

- Back pull-out design simplifies maintenance and reduces issues related to pipe strain.



Vertical Turbine Fire Pump

Vertical, single and multi-stage, turbine pumps

Characteristics

- UL Listed
- FM Approved
- NFPA-20 Compliant
- Flows from 450 to 5500 GPM
- Pressures from 40 to 338 + PSI
- Head up to 227 m (746 ft)
- Temperatures up to 105 °C (220 °F)
- Electric or diesel driven
- Factory Tested

Benefits

- Minimal maintenance requirements.
- Suitable for applications where city water is unavailable, such as ponds or lakes.
- Materials available for seawater service.



In-Line Fire Pump

Vertical In-line Centrifugal Pumps

Characteristics

- UL listed
- FM Approved
- NFPA-20 Compliant
- Flows from: 150 to 1000 GPM
- Pressure: From 40 to 202 PSI
- Only electric driven
- Factory Tested

Benefits

- Top pull-out design simplifies maintenance
- Compact, space-saving design



Horizontal End Suction Fire Pump

Single stage end suction centrifugal pumps

Characteristics

- UL listed
- FM Approved
- NFPA-20 Compliant
- Flows from 200 to 1500 GPM
- Pressures from 32 to 252 PSI
- Electric or diesel driven
- Factory Tested

Benefits

- This pump is buyer friendly, which means that it has less complexity, a faster service and a lower downtime risk.



Jockey pump

Pressure maintenance jockey pumps are available in vertical multistage and end suction configurations.

Characteristics

- Typically sized at 1% of main pump flow and set 10-20 PSI higher.
- Maintains system pressure, preventing unnecessary fire pump starts due to small leaks.
- Factory tested.

Benefits

- Versatile performance and design.
- Low operating cost.

Construction Materials:

Our fire pump components, including casing, impeller, shaft, and bowls, are available in both standard and specialized metallurgies to meet specific application needs.

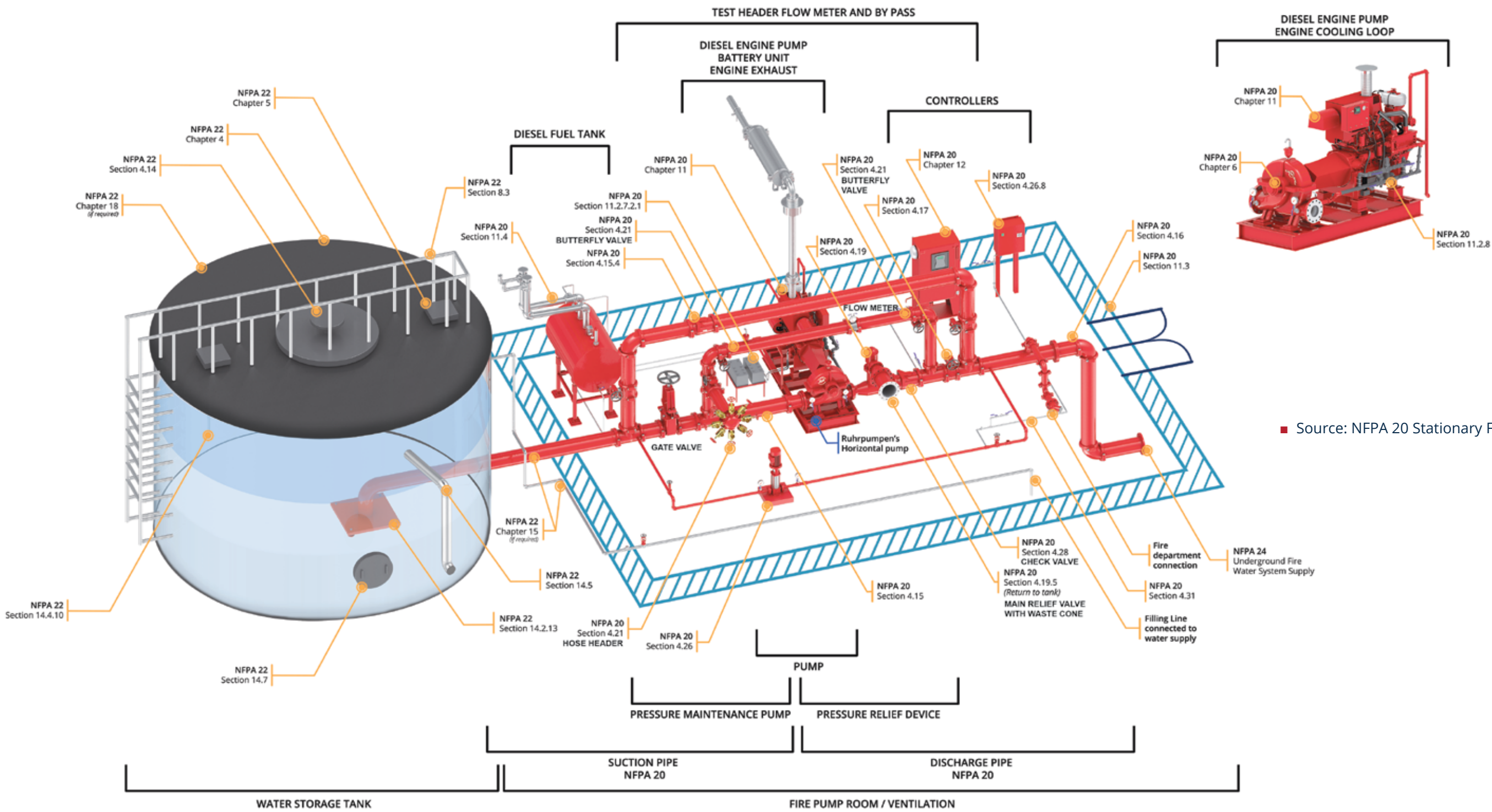
Standard materials include:

- Cast iron
- Ductile iron
- Carbon steel

Metallurgies for seawater/ brackish applications and harsh environments include:

- Stainless steel
- Duplex
- Super Duplex
- Nickel-Aluminum-Bronze

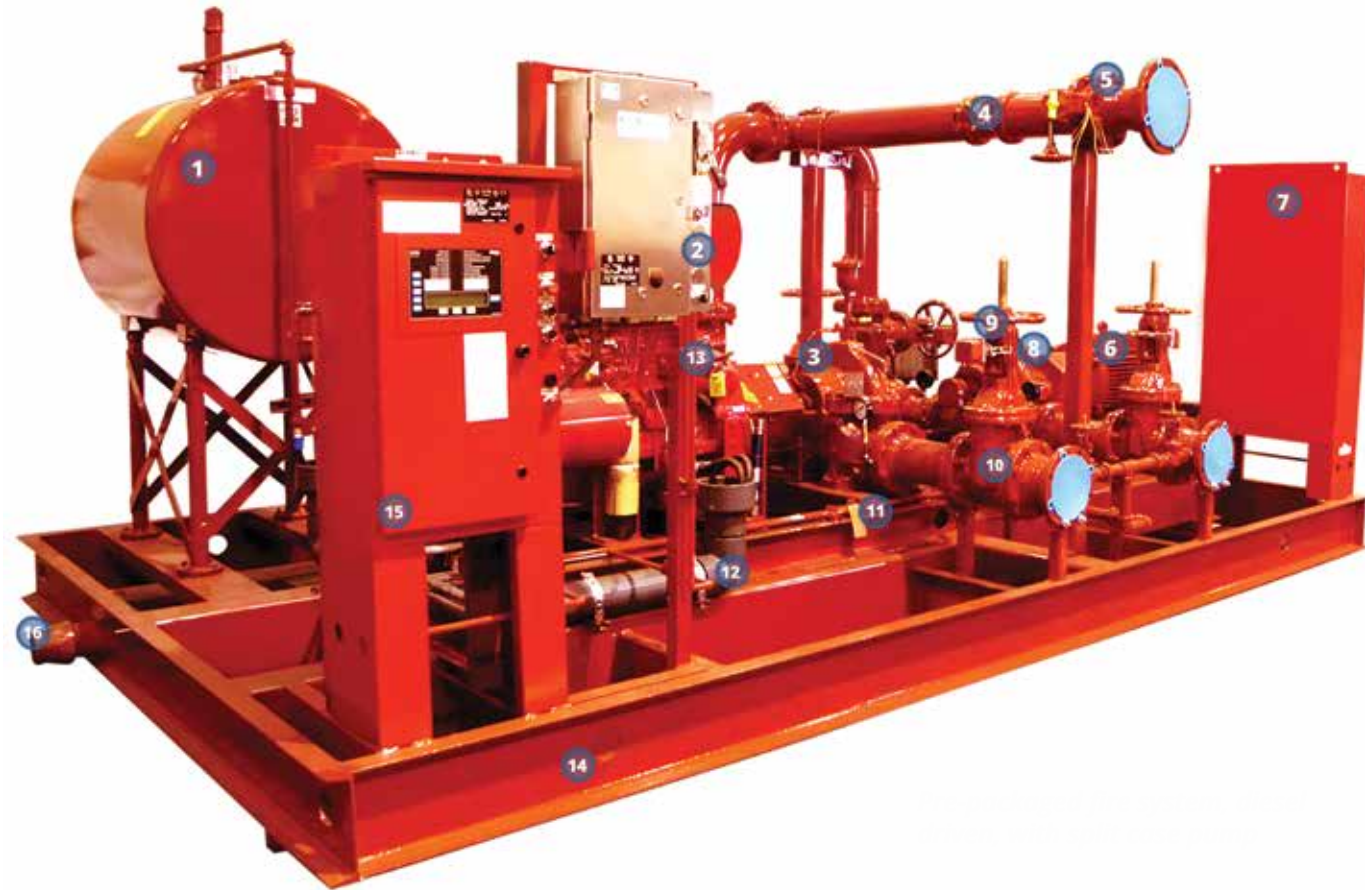
Firefighting system arrangement according to NFPA



Packaged Fire Pump Systems

Our fire protection pumping solutions are installed worldwide across industrial, commercial, and residential applications. Pre-packaged fire systems are engineered to meet customer requirements while complying with international and local safety standards.

Each system integrates RP fire pump models with drivers, control systems, and piping on a common base for simple, plug-and-play installation. Units are available skid-mounted, with or without enclosure, and can be supplied with electric motors or diesel engines.



- | | |
|--------------------------------------|--|
| 1. UL-142 Double Wall Day Tank | 9. Tamper Switches |
| 2. UL Listed Jockey Pump Controllers | 10. UL/FM Listed OS&Y Gate Valves |
| 3. UL/FM Fire Pump | 11. Copper Sensing Lines |
| 4. FM Flow Meter | 12. Schedule 8-CPVC Containment Piping for Fuel Piping |
| 5. Throttling Valve | 13. UL/FM Listed Diesel Engine |
| 6. Electric Motor | 14. ASTM A36 Structural Steel Skid |
| 7. UL/FM Electric Control Panel | 15. UL/FM Diesel Control Panel |
| 8. Jockey Pump | 16. Floor Drain System |

Optional Features - Pre-Packaged Fire Systems:

- High-performance coatings for marine, corrosive, and coastal environments.
- Stainless steel piping for seawater or brackish applications.
- NFPA 20 compliant mobile fire systems available.
- ABS certification for offshore platform and skid-mounted units.
- Leveling bolts for easy installation.
- Custom alarm panels.



Individual split case pump baseplate with on-skid control panel

NFPA-20 Compliant Fire Pump Houses

Fully pre-assembled and enclosed packages for fast, trouble-free installation

Our packaged systems can be housed in a weatherproof, non-combustible enclosure engineered in accordance with NFPA 20, including:

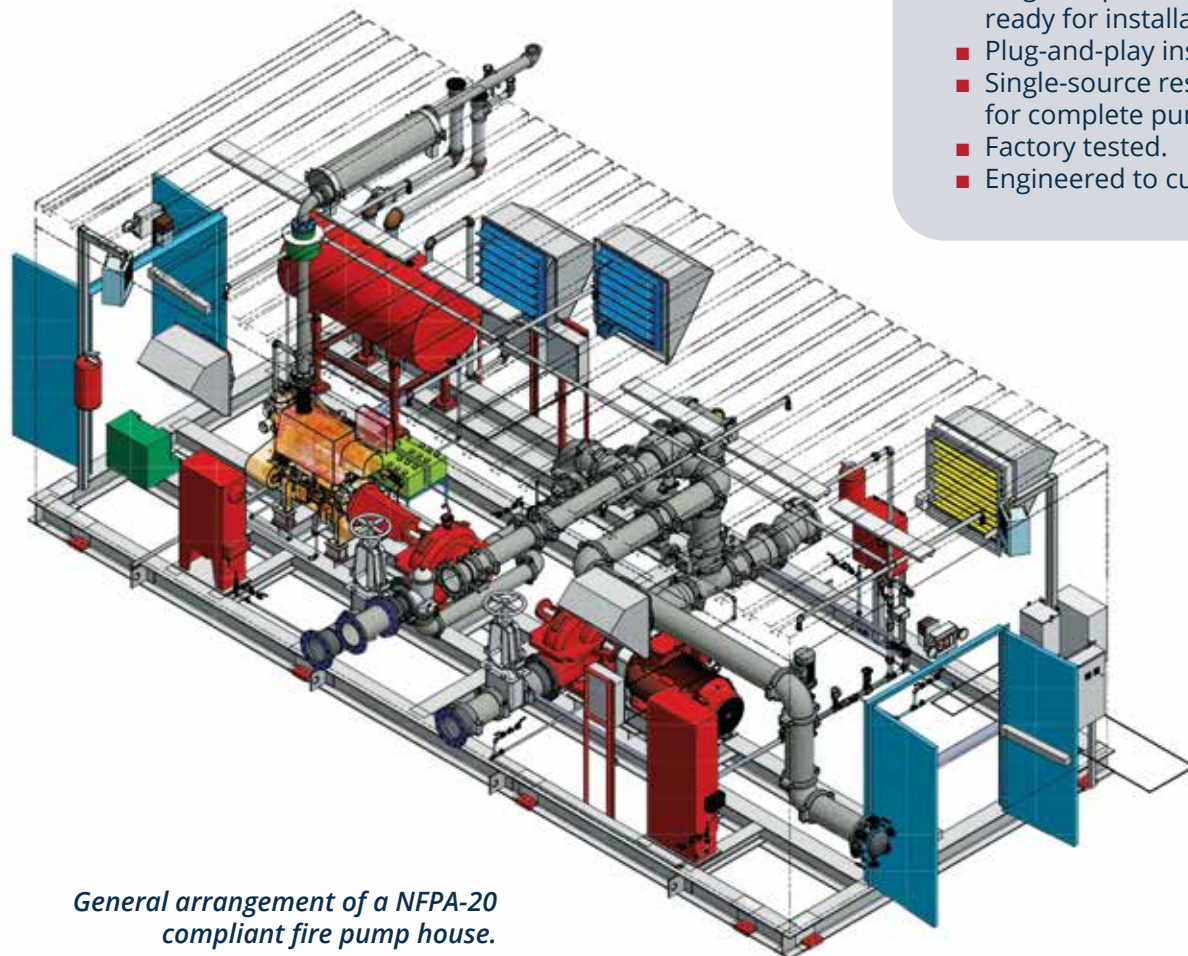
- Heating and Ventilation.
- Approved or listed heat source.
- Anormal and emergency lighting.
- Drainage system.
- Convenience outlet.

Optional features:

- Pre-wired and pre-piped design
- Pre-piped sprinkler systems for pump house interior
- Exhaust fan and ventilation options
- Integrated mini power zone
- Wall or floor piping access
- Containment piping
- Architectural finishes available
- Integrated safety equipment
- Grating or diamond plate floor deck options
- Seismic calculations with PE stamp
- Open skid design available



- UL Listed and FM Approved pumps.
- ETL listed (Non-Mandatory)
- Single shipment delivery, ready for installation.
- Plug-and-play installation.
- Single-source responsibility for complete pump house
- Factory tested.
- Engineered to customer.



General arrangement of a NFPA-20 compliant fire pump house.

Control Panels

When every second counts, reliability matters. Ruhrpumpen offers electric, diesel, and jockey pump control panels designed for single or multiple drivers, with options for fully automatic or manual operation.

Electric and diesel control panels are UL/ULC listed and FM and CSA approved, meeting or exceeding NFPA 20 and NFPA 70 requirements.



Electric Control Panels

Low-voltage configurations include:

- Across the line
- Soft start
- Open or closed delta
- Primary resistor
- Auto-transformer
- Part winding

Medium-voltage configurations include:

- Across the line

Diesel Panels

Available for 12 V diesel fire pump engines, with 120 or 220/240 VAC configurations.

Jockey Panels

Single or three-phase panels designed for 50 & 60 Hz operation across a wide range of voltages.

Ruhrpumpen UL/FM Certified Facilities

Monterrey, México



TBC 7,500 HP, 16,000 SQM
HS/ZW/IRP/IVP/VTP

Pump Manufacturing

- ATO / Commercial
- ETO / Industrial

Tulsa, OK



TBC 2,000 HP, 28,000 SQM
HS/ZW/IRP/IVP/VTP

- ATO / Commercial

Lancing, UK



TBC 670 HP, 1,700 SQM
HS/ZW/IRP/IVP

- ATO / Commercial

* Roller doors are 5x3.5m which limits skid capacity

Cairo, Egypt



TBC 2,680 HP, 2,280 SQM
HS/ZW/IRP/IVP/VTP

- ATO / Commercial
- ETO / Industrial

Chennai, India



TBC 6,000 HP, 7,500 SQM
HS/ZW/IRP/IVP/VTP

Pump Manufacturing

- ATO / Commercial
- ETO / Industrial

Rio de Janeiro, Brazil



TBC 6,000 HP, 7500 SQM
HS/ZW/IRP/IVP/VTP

- ATO / Commercial

NOTE: TBC = Test Bed Capacity, HS/ZW = Horizontal Split Case, IVP = In Line Vertical Pumps, IRP = End Suction Pumps, VTP = Vertical Turbine Pumps

75+ years powering the world with advanced pumping technology

Ruhrpumpen is an innovative pump technology company delivering highly engineered and standard pumping solutions for the oil & gas, power generation, industrial, water, and chemical markets. We offer a broad range of centrifugal and reciprocating pumps designed to meet or exceed the most demanding quality specifications and industry standards, including API, ANSI, UL, FM, ISO, and Hydraulic Institute.

Ruhrpumpen Plants

-  ARGENTINA, Buenos Aires
-  BRAZIL, Rio de Janeiro
-  CHINA, Changzhou
-  EGYPT, Suez
-  GERMANY, Witten
-  INDIA, Chennai
-  MEXICO, Monterrey
-  UK, Lancing
-  USA, Tulsa

-  Manufacturing plant & service center
-  Service center