

GRUNDFOS FIRE



When Reliability Matters Trust Grundfos

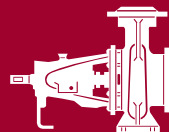
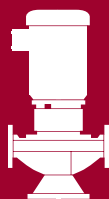
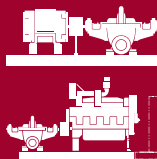
Thousands of Grundfos Pump installations (UL, ULC or FM approved) deliver superior fire protection to facilities worldwide. Grundfos Pump has been offering complete service, from engineering assistance to in-house fabrication to field start-up. Products are designed from a broad selection of pumps, drives, controls, baseplates and accessories. Pump choices include horizontal, in-line and end suction centrifugal fire pumps as well as vertical turbines.



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Grundfos fire product Line features and Specifications



Pumps	Horizontal FirePumps, UL Listed,ULC Listed and FM Approved	In-Line Fire Pumps,UL and ULC Listed	Listed End Suction FirePumps, UL and FM Approved	Vertical Fire PumpsUL Listed, ULC Listed and FM Approved Horizontal
Type	Horizontal centrifugal pumpswith appropriate fittings for providing water supply to fireprotection systems inbuildings, plants and yards.Types AF, ADF, AEF, TUF,TUTF.	Compact in-line centrifugal fire pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plantsand yards. Type PVF.	End suction centrifugal firepumps with appropriate fittings for providing watersupply to fire protectionsystems in buildings, plantsand yards. Type UNF.	Vertical turbine pumps with appropriate fittings for providing water supply to fire protection systems inbuildings, plants and yards.
Capacities	250 to 5,000 gpm(57 to 1,136 m3/hr)	50 to 1,500 gpm(11 to 114 m3/hr)	Up to 1,500 gpm(114 m3/hr)	250 to 5,000 gpm(57 to 1,136 m3/hr)
Head	92 to 630 feet(28 to 192 meters)	Up to 406 feet(123 meters)	Up to 340 feet(104 meters)	92 to 1,176 feet(28 to 359 meters)
Pressure	Up to 640 psi(45 kg/cm2, 4,414 kPa)	Up to 175 psi(12 kg/cm2, 1,207 kPa)	Up to 147 psi(10 kg/cm2, 1,014 kPa)	Upto 500 psi (35.15 kg/cm2, 3,515 kPa)
Horsepower	Up to 800 hp (597 kW)	Up to 125 hp (93 kW)	Up to 75 hp (56 kW)	Up to 600 hp (448 kW)
Drives	Horizontal electric motors,and diesel engines	Vertical close coupled electric motors	Horizontal electric motorsand diesel engines	Vertical electric motors and diesel engines with right angle gears
Liquids Pumped	Water.	Water.	Water.	Water.
Temperature	Ambient within the limits forsatis factory equipment operation.	Ambient within the limits for satisfactory equipment operation.	Ambient within the limits for satisfactory equipment operation.	Up to 115°F (46°C)
Materials of Construction	Cast iron, bronze fitted asstandard. Optional materialsavailable for sea waterapplications.	Cast iron, bronze fitted.	Cast iron, bronze fitted.	Cast iron, bronze fitted asstandard. Optional materialsavailable for sea waterapplications.

Approvals

Firetrol fire pump controllers are listed by Under writers laboratories, Inc., in accordance with UL218, Standard for Fire pump controllers, CSA, Standard for industrial control equipments (cUL) , approved by Factory mutual and approved by the city of New York for fire pump service. They are built to meet or exceed the requirements of the approving authorities as well as NEMA and the latest editions of NFPA 20, Standard for the installation of stationary Pumps for Fire Protection, and NFPA 70, National Electrical Code

Simplex, duplex, & Triplex Motor Controls
 Variable frequency drive control systems
 Sump & sewage motor controls
 Computer and PLC Based systems

Other Firetrol Products & Services

Information on the following is available from a Firetrol representative or from the factory:

- Jockey Pump controllers
- Fire pump remote alarm panels
- High voltage fire pumps controllers - 100-4000
- HP (74-2984 kW), 7200 Volts maximum
- Diesel Engine fire pump controllers
- Engineering assistance for special fire pump control applications, including high sone/ low szone systems and controllers for hazardous locations

Firetrol combined automatic and manual fire pump controllers are intended For starting electric motor driven fire pumps and are available in the following configuration :

- FTA 1000 -full voltage starting
- FTA 1250 -Part winding reduced current starting (closed circuit transition)
- FTA 1300- Wye-delta reduced voltage starting (open circuit transition)
- FTA 1350 -Wye-delta reduced voltage starting(closed circuit transition)
- FTA 1500- Primary resistance reduced voltage starting (closed circuit transition)
- FTA 1800- Autotransformer reduced voltage starting (closed circuit transition)
- FTA 1930- Digital solid state reduced voltage starting (closed circuit transition)
- FTA 3100- Variable frequency drive

These controllers are available assembled with power transfer switches for use with an emergency generator or second power source .

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