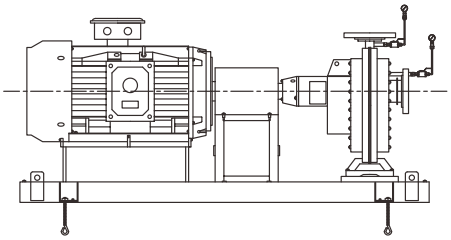
Single-stage end suction fire pump

Single-stage end suction fire pump from TPMC delivers dependable, high-head water supply for standpipe, sprinkler systems, and high-rise building fire protection. The compact volute casing and single impeller efficiently convert rotational energy into pressure. Back pull-out construction allows rapid access to internal components without disturbing piping or motor alignment, simplifying maintenance and reducing downtime.





- Certificate: UL Listed / FM Approved
- Standard: NFPA 20
- Configuration: Single-stage, end suction, top discharge
- Flow: 150 ~ 1000 gpm (34 ~ 227 m^3/h)
- Pressure (Head): 40 ~ 151 psi (2.8 ~ 10.4 bar)
- Speed: 2900 rpm (50 Hz) / 3500 rpm (60 Hz); 4-pole (1450/1750 rpm) available
- Liquid: Clean water, 0°C ~ 40°C
- Surface: Red FBE coating per AWWA C550



Main parts and material

Pump casing	Ductile iron, cast iron or cast steel	**Impeller / trim**	Cast iron, bronze or SS (AISI 304/316)
Shaft	SS or high-strength alloy steel shaft with SS/bronze sleeves	**Sealing**	Standard mechanical seal, or soft gland packing
Driver	High-efficiency electric motor, or heavy-duty diesel engine	**Controller**	Electrical motor controller, or diesel engine controller
Standard accessories	Circulation relief valve, air release valve, vibration-proof pressure switch, pressure gauges	**Optional accessories**	Pressure relief valve, gate valves, check valves, flow meter, baseplate for skid-mounted package, etc.

Single-stage end suction fire pump

Electric motor drive package

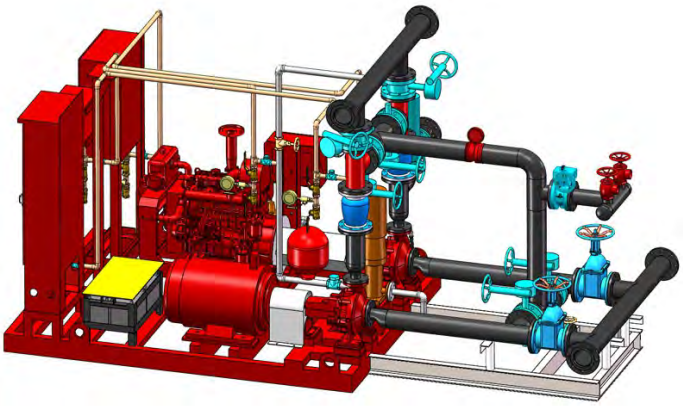
Motor	· UL Listed, NFPA 20 compliant. · TEFC (IP55, Class F) or ODP enclosures. · 3-phase, 50/60 Hz, available in low-voltage (208 V – 690 V) or medium-voltage (2.3 kV – 4.16 kV). · Suitable for across-the-line, reduced-voltage, or soft-start operation.
Controller	· UL Listed and FM Approved, NFPA 20 & UL 218 compliant. · Across-the-line, wye-delta, or soft-start. Microprocessor-based with auto/manual modes. · Phase-reversal and overload protection, display, transducer, recorder. Dry contacts for BMS/FAS.

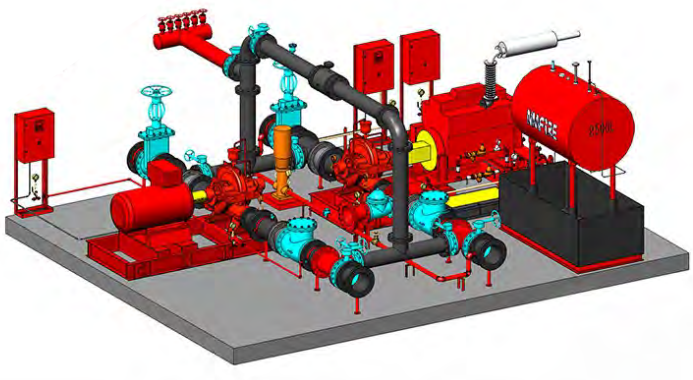
Diesel engine drive package

Engine	· UL Listed and FM Approved, NFPA 20 compliant. · Radiator or heat-exchanger cooled. Dual battery banks with auto switching. Jacket water heater. · Electronic governor. Fuel day tank with filter/separator. · Instrumentation: oil pressure, coolant temperature, battery voltage.
Controller	· UL Listed and FM Approved, NFPA 20 compliant. · Auto start/stop, manual override. Dual battery chargers (12/24V). · Microprocessor monitors: oil press, coolant temp, battery V, speed, run-time. Dry contacts for BMS/FAS.

Jockey pump & controller (Optional)

Pump	· CE certified. · Electric-motor-driven pressure-maintenance pump. · Typically sized at 1-3% of main pump capacity with set pressure 10-20 psi above main pump start pressure.
Controller	· CE certified. · Automatically starts/stops jockey pump to maintain system pressure between main pump operations. · Enclosure options (NEMA 2 / IP55) match main pump controllers.





Single-stage end suction fire pump

Available sizes (Electric motor drive)

US system			Metric system			Ref. No.
Capacity (gpm)	Pressure (psi)	Head (ft)	Capacity (m^3/h)	Pressure (bar)	Head (m)	
150	40 ~ 134	92 ~ 310	34	2.8 ~ 9.2	28 ~ 94	U0201
200	40 ~ 133	92 ~ 307	45	2.8 ~ 9.2	28 ~ 94	U0202
250	43 ~ 132	99 ~ 305	57	3.0 ~ 9.1	30 ~ 93	U0203
300	55 ~ 130	127 ~ 300	68	3.8 ~ 9.0	39 ~ 91	U0204
400	57 ~ 143	132 ~ 330	91	3.9 ~ 9.9	40 ~ 101	U0205
450	54 ~ 141	125 ~ 326	102	3.7 ~ 9.7	38 ~ 99	U0206
500	75 ~ 151	173 ~ 349	114	5.2 ~ 10.4	53 ~ 106	U0207
750	83 ~ 151	192 ~ 349	170	5.7 ~ 10.4	58 ~ 106	U0208
1000	80 ~ 145	185 ~ 335	227	5.5 ~ 10.0	56 ~ 102	U0209

Note:

1. The pressure ranges shown represent the available performance envelope at nominal speeds. Actual performance curves and drive power selection are provided upon request for selected duty point. Contact TPMC for details.
2. All ratings comply with NFPA 20 (150% capacity at not less than 65% of rated head; shut-off head not more than 140% of rated head).

Available sizes (Diesel engine drive)

US system			Metric system			Ref. No.
Capacity (gpm)	Pressure (psi)	Head (ft)	Capacity (m^3/h)	Pressure (bar)	Head (m)	
150	40 ~ 139	92 ~ 321	34	2.8 ~ 9.6	28 ~ 98	U0221
200	40 ~ 138	92 ~ 319	45	2.8 ~ 9.5	28 ~ 97	U0222
250	41 ~ 136	95 ~ 314	57	2.8 ~ 9.4	29 ~ 96	U0223
300	48 ~ 134	111 ~ 310	68	3.3 ~ 9.2	34 ~ 94	U0224
400	42 ~ 146	97 ~ 337	91	2.9 ~ 10.1	30 ~ 103	U0225
450	54 ~ 146	125 ~ 337	102	3.7 ~ 10.1	38 ~ 103	U0226
500	65 ~ 150	150 ~ 347	114	4.5 ~ 10.3	46 ~ 106	U0227
750	63 ~ 151	146 ~ 349	170	4.3 ~ 10.4	44 ~ 106	U0228
1000	60 ~ 145	139 ~ 335	227	4.1 ~ 10.0	42 ~ 102	U0229

Note:

1. The pressure ranges shown represent the available performance envelope at nominal speeds. Actual performance curves and drive power selection are provided upon request for selected duty point. Contact TPMC for details.
2. All ratings comply with NFPA 20 (150% capacity at not less than 65% of rated head; shut-off head not more than 140% of rated head).