**SPECIAL NOTE:**

When preparing the specifications for your new pumper, assure the use of a Hale pump by incorporating these pump specifications as written. No competitive pump can match Hale's construction or performance.

**Performance**

The pump/engine shall be capable of meeting the NFPA 1906 performance rating of 50 GPM @ 100 PSI. Typical pump performance from 5 foot draft at sea level shall be: 15 GPM @ 200 PSI, 65 GPM @ 100 PSI, and 105 GPM @ 20 PSI.

**Pump**

The pump body shall be made of anodized alloy aluminum castings coupled together with a stainless steel band clamp with an O-ring seal which allows quick pump volute removal for servicing. The pump end shall be factory hydrostatically tested to 500 PSI. The impeller shall be bronze and 4.00 inches (101.6 mm) in diameter. The renewable clearance ring shall be made of bronze to inhibit galvanic corrosion. To obtain the required pressures, a built-in oil bath lubricated gearbox shall be provided between the pump end and engine. The gearbox shall be coupled together with a stainless steel band clamp. The pump shaft seal shall be an automatically adjusting, maintenance free, mechanical type. The pump body shall be equipped with a petcock drain valve.

**Priming**

The pump shall be equipped with a diaphragm type hand primer.

**Suction/Discharge**

The suction and discharge ports shall be female pipe thread, designed and located to accept applicable hose thread adapters (2.0” NPT Suction, 1.5” NPT Discharge).

**Engine**

The engine shall be a 4-cycle diesel Yanmar L100V series air-cooled design. Engine rating shall be 9 BHP at 3600 rpm with a torque of 15.5 lb-ft at 3000 rpm. Engine displacement shall be 435cc and the engine shall be EPA Tier 4 compliant. A 12-volt electric system shall be provided with electric starter and a 15 amp alternator. Recoil backup engine starting shall be provided. Engine shall be equipped with a USDA approved spark arrestor and 1.24 Gallon (4.7 Liter) fuel tank.

**Mounting Platform**

The pump/engine shall be isolation mounted onto a steel base plate.

**Instrumentation**

The pump shall be supplied with a remote mounted control panel. This panel shall include a throttle control, on/off switch, a 2.5 inch liquid filled discharge gauge and a battery warning light.