**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 50 GPM @ 250 PSI. Typical pump performance from 5 foot draft at sea level shall be: 15 GPM @ 325 PSI, 70 GPM @ 200 PSI, and 135 GPM @ 50 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 4.88 inches (123.8 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 an exhaust venturi primer of brass and stainless steel construction. The primer shall be capable of priming at 13 feet lift. The primer shall be actuated with a spring return, single control lever located at the operator’s panel. The primer to pump line shall be equipped with an automatic check valve for priming from an open body of water and a manual shut-off for pumping from a pressurized water source.

**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 gasoline Briggs and Stratton Vanguard 356447 series V-Twin, overhead valve, air cooled design. Engine rating shall be 18 BHP at 4000 rpm with a torque of 30 lb-ft at 2600 rpm. Engine displacement shall be 570cc and shall be designed to meet current CARB (California Air Resources Board) and EPA (Environmental Protection Agency) standards. A 12-volt electric system shall be provided with electric starter and a 16 amp alternator. Recoil backup engine starting shall be provided. Engine shall be equipped with a residential muffler with USDA approved spark arrestor.

**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 lever, primer lever, master switch, starter button, choke control, a 2.5 inch liquid filled discharge gauge and an oil pressure warning light.