**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: 120 GPM @ 100 PSI, 225 GPM @ 75 PSI and 350 GPM @ 40 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 200 PSI. The impeller shall be bronze. The renewable clearance rings shall be made of bronze to inhibit galvanic corrosion. The impeller shall be 8.00 inches (203.2 mm) in diameter and designed with a sleeve back end to prevent water from coming in contact with the engine shaft. 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 adapter. The discharge shall be equipped with a 175° swivel, 10° droop gate-able screw-down valve with a 2.5” male NST thread. The valve shall be equipped with an automatic check valve for priming and a drain cock valve to relieve discharge hose pressure. The suction shall be 3” NPT with a 3” male NST adapter.

**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 with mounted carrying handles and battery. A 6-gallon remote EPA-compliant fuel tank is provided.

**Instrumentation**

The pump shall be supplied with a mounted control panel. This panel shall include a primer lever, master switch, starter button, a 2.5 inch liquid filled discharge gauge and an oil pressure warning light. Throttle control lever and choke control lever shall be engine mounted.