

Medium Sump or Drainage Pumps

Recommended Pump Specifications for Architects and Engineers

Sump Pump

Furnish and install where indicated on plans _____ (Qty), Deming automatic motor driven vertical sump pump(s) Fig. 4508 for _____ GPM against a head of _____ feet. Pump(s) shall be standard, all iron or all bronze fitted, using cast casing, separate cast strainer, semi-open cast iron or bronze impeller and high carbon steel shaft. Type A Pump can be supported by cover, or Type B Pump rests on floor. Replaceable shaft guide bearings shall be contained in precision machined cast housings for column pipe sections not more than 5 feet apart. Screwed column shall be 2½ inch Standard Schedule 40 steel pipe. Cast iron motor support, mounted on heavy split C.I. support plate, shall align motor with column pipe and shafting. Shaft shall be supported by heavy, grease lubricated ball bearing mounted in a sealed, dust tight housing, separate from the motor and above the pump column pipe and cover plate. Shaft shall have vertical adjustment by means of adjusting nut and positive lock.

Motor

Each pump shall be connected by flexible coupling to a vertical ball bearing, electric motor with flanged end bell dowelled into motor support. The motor shall be wired for _____

phase, _____ cycle, _____ volts. Motor load shall not exceed service factor of motor.

Support Plate

The pump assembly shall be fitted with a cast iron support plate or sump cover 20 or 28 inches in diameter for mounting on a pit 18 or 24 inches in diameter by _____ feet deep.

Duplex pump sump cover shall be equipped with a manhole 11 x 15 inches or larger with cover and with flanged or (threaded) vent connection _____ inch size.

Automatic Control

Float switch shall be mounted on motor support and shall be operated by a guided corrosion resisting float. Switch shall be properly selected to control motor either directly or with starter, where so required.

Duplex Pumps

For Duplex pumps supply electric alternator and control which will alternate the normal operation of the two pumps, operate both pumps simultaneously, if required.

Extra Equipment

Cast iron basin, float pipes, high water alarm, special motors and pump metals should be noted individually in the specifications.