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P

SUBMERSIBLE SUMP PUMP



Submersible sump pumps. 1/4, 1/3,
and 1/2 hp. 1 1/2" and 2" discharge.
Flows to 100 gpm, heads to 25 ft.

HIGHLIGHTS

-  Motors are Fully Submersible
-  Close-Coupled Design for Perfect Alignment
-  Easy Installation and Removal
-  Automatic Operation of Single Phase Units
-  Ideal for Elevator Pits

FEATURES

MOTOR: Fully submersible motor in cast iron housing with stainless steel shaft. Units operate at 1750 rpm. Single phase motors are available for 115v or 230V operation. (115v only for 1/4 hp units) and have built-in overload protection. Three phase motors are available for 1/3 hp and 1/2 hp units, rated for 230v operation and should be provided with magnetic starters.

PUMP: Close-coupled design with impeller locked firmly to the motor shaft. All units have cast iron pump volutes. Impellers are plastic for 1/4 hp and 1/3 hp units and cast iron for 1/2 hp units. Some units are available in all-bronze construction.

POWER CORD: Fully sealed waterproof power cord is furnished on all single phase units. The standard cord length is 10 ft. for 1/4 hp units and 20 ft. for 1/3 hp and 1/2 hp units. Longer power cords are available if required.

FLOAT SWITCH: Automatic operation of the single phase pumps is provided by an integral submersible float switch. For all three phase units and for single phase units where non-standard float travel is required, the float switch is furnished in a separate submersible housing for mounting on the discharge pipe of the pump.

APPLICATION: Type P submersible sump pumps are ideally suited for a variety of applications including elevator pits, home and industrial building sumps, loading dock areas and effluent pits. Standard-fitted construction is suitable for most applications.

ACCESSORIES: A variety of accessories are available for Type P submersible sump pumps including magnetic starters, control panels, long-travel float switches, sump basins (cast iron or steel or fiberglass), pit covers and grouting frames for concrete pits and high water alarms. Type P pumps can also be controlled by the Federal Type SBS Submers-a-bulb controllers.

Selection Table				
Model	GPM	Disch. Head (Ft.)	Disch. Size (Ins.)	Motor HP
1-1/2P-1/4-4	10	19	1.5	0.25
1-1/2P-1/3-4	10	22	1.5	0.33
2P-1/2-4	10	25	2	0.5
1-1/2P-1/4-4	15	18	1.5	0.25
1-1/2P-1/3-4	15	21	1.5	0.33
2P-1/2-4	15	24	2	0.5
1-1/2P-1/4-4	20	17	1.5	0.25
1-1/2P-1/3-4	20	20	1.5	0.33
2P-1/2-4	20	23	2	0.5
1-1/2P-1/4-4	30	13	1.5	0.25
1-1/2P-1/3-4	30	18	1.5	0.33
2P-1/2-4	30	22	2	0.5
1-1/2P-1/4-4	40	8	1.5	0.25
1-1/2P-1/3-4	40	15	1.5	0.33
2P-1/2-4	40	21	2	0.5
1-1/2P-1/3-4	50	12	1.5	0.33
2P-1/2-4	50	20	2	0.5
1-1/2P-1/3-4	60	10	1.5	0.33
2P-1/2-4	60	19	2	0.5
2P-1/2-4	70	18	2	0.5
2P-1/2-4	80	16	2	0.5
2P-1/2-4	90	15	2	0.5
2P-1/2-4	100	13	2	0.5

Dimensions Table							
Model	Min Sump Dia. (Inches)	Overall pump Hgt. (Inches)	Disch. Size (inches)	Cord length (Feet)	Max. Amb. Temp.	Wgt. (Lbs.)	Std. Float Travel (inches)
1-1/2P-1/4-4	12	10	1.5	10	104° F	40	9
1-1/2P-1/3-4	12	12	1.5	20	130° F	40	9
2P-1/2-4	15	18	2	20	130° F	60	9

SUGGESTED SPECIFICATIONS FOR ARCHITECTS & ENGINEERS:

Single Unit (1/3 hp 1/2 hp UNITS)

Furnish and install where shown on plans, a single Type P submersible sump pump unit, as manufactured by Federal Pump Corporation. Pump to have a capacity of ___ gpm against a total dynamic head of ___ ft. Pump to have ___ npt discharge connection and to be standard-fitted construction with submersible sealed motor, stainless steel shaft and waterproof power cable. Motor to be ___ hp, 1 ph., 60 cy., ___ volts, 1750 rpm, with integral fully submersible float switch, for automatic control of the pump.

Furnish a welded angle iron grouting frame and heavy steel cover equal to Federal Type PF-1, for a concrete pit ___ ins. x ___ ins. x ___ ins. deep. Cover and frame to be treated with corrosion resistant coating and cover to have openings for cable, vent connection and pump removal plate.

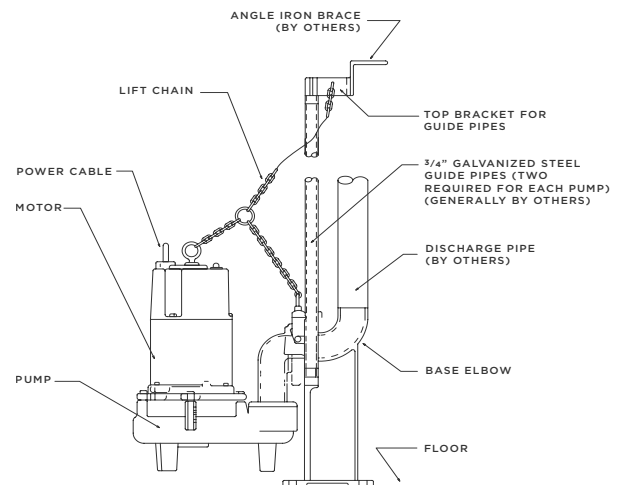
SUGGESTED SPECIFICATIONS FOR ARCHITECTS AND ENGINEERS:

DUPLEX UNIT, (1/3 hp 1/2 hp UNITS)

Furnish and install where shown on plans, a duplex Type P submersible sump pump unit, as manufactured by Federal Pump Corporation. Each pump to have a capacity of ___ gpm against a total dynamic head of ___ ft.. Pumps to have ___ npt discharge connections and to be of standard-fitted construction with submersible sealed motor, stainless steel shaft and waterproof power cable. Motors to be ___ hp, ___ phase, 60 cycles, ___ volts, 1750 rpm. Each-pump shall have a fully submersible float switch for mounting on the pump discharge pipe.

Furnish a duplex pump control panel in a single NEMA-1 enclosure, including fusible disconnect switch, magnetic starter and hand-off-automatic selector switch for each motor and an automatic alternator to alternate the sequence of operation of the two pumps and provide simultaneous operation of the pumps when required.

Furnish a fiberglass steel sump basin, ___ ins. in diameter x ___ ins. deep, with inlet connection as determined by job conditions. The basin shall have a steel cover with required openings for pump removal plates, controls and vent connection, and shall be treated with a corrosion resistant coating.



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