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Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961 (502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624 **SECTION: Z5.00.240**ZM2123
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PACKAGED PUMP STATION GUIDE SPECIFICATION



SUBMERSIBLE PUMP SYSTEM

1.01 GENERAL

Contractor shall furnish and install a packaged submersible pump station as manufactured by Zoeller Engineered Products Co. (800-928-7867). The packaged pump station shall include submersible pump(s), controls and a fiberglass basin assembly. The basin assembly is prepackaged with the rail system(s), discharge piping, check and shut-off valves, discharge fitting and electrical conduit connection. The control panel and basin inlet hub will be field installed. After the basin has been installed, the pump(s) will be lowered down the rail system with a stainless steel lifting cable and seated onto the disconnect fitting. The field installed sewer pipe, electrical disconnect box and all other miscellaneous equipment shall be supplied by the contractor.

2.01 OPERATING CONDITIONS
Each Pump shall be capable of delivering GPM against a total dynamic head of Feet. The pump shall be capable of passing a inch spherical solid.
The electrical power source will be Volts, Phase.
The system shall be constructed around a SIMPLEX or DUPLEX configuration.
The pump discharge pipe size shall be inches, and made of PVC, Galvanized steel or Stainless steel material
3.01 BASIN ASSEMBLY The basin shall be" Diameter by" Depth. It shall be supplied with an anti-floatation collar and cover, constructed of solid fiberglass, hatched steel, 300 PSF hatched aluminum. The wet-well's fiberglass laminate mus be constructed to withstand or exceed two times the assumed loading on any depth of the basin's side wall. The package shall be manufactured by a firm who has a minimum of 5 years experience in producing prepackaged basin assemblies fo submersible pumps.
Assembled inside the basin will be the rail system, discharge piping and valves for each pump. The basin sidewall will have a factory mounted discharge fitting. Each rail system shall have a guide rail assembly with galvanized or stainless steel rail pipes for ease of installation and removal of pump. A disconnect fitting shall easily engage and seal the pump to the discharge piping with minimal effort. A potting kit shall be supplied and field-installed, preventing groundwater from entering the J-box through the conduit.
Optional:A junction box for electrical connections shall be mounted inside the basin and have a terminal connection designated for each pump and float lead. The junction box shall be protected from moisture and gases by both an o-ring cover sea and cord seals.
A steel or stainless steel conduit fitting shall be mounted on the outside of the basin wall. Float switches will be suspended from SS float brackets. Weights, located on the float cords, will be adjusted to the liquid levels desired for an optimum pump duty cycle. The" inlet hub, provided loose for field installation, shall be mounted at an elevation tha allows the wastewater to flow into the basin. The inlet hub shall be installed at a location that does not interfere with the operation of the float switches.
The basin will be installed using a sufficient amount of concrete material on the anti-flotation collar to prevent floatation from

The basin will be installed using a sufficient amount of concrete material on the anti-flotation collar to prevent floatation from high groundwater conditions. Additionally, 12 inches of backfill material, pea-gravel or crushed stone, shall be provided to support the sides and bottom surfaces of the basin.

powder coated cast iro non-overloading and r is provided by a 1.15 lubricating properties	ual to a Model as manufactured by Zoeller on construction and have a finned oil filled motor ho not exceed the motor rating at any point on the impel service factor. Air filled motors will be unacceptable of an oil filled motor. The motor shall be protected junction chamber from the motor housing.	ousing with 25' electrical cables. The motor shall be ller performance curve. Additional motor protection ole since they fail to meet the heat dissipation and
Optional: 50' E	Electrical cable length	
	nstructed with of two carbon/ceramic mechanical so seal chamber and used to alert the operator of a lo	
	rbide/ carbon: Lower mechanical seal/ Urbide/ silicon carbide: Lower mechanical seal/ _	
starter for each pump panel shall include a p	Il be housed in a NEMA 4X enclosure with lockable Overload protection shall be provided in the pan pump starting circuit for capacitor start/capacitor ruen shall be provided for each pump. The panel will	el for pumps not having an internal overload. The n motors. Pump run lights, HOA selector switches
_	nder pumps having an Auto-Reversing feature sha	all contain the circuitry enabling this operation to
function. Optional features :	Inner door with dead front Elapsed time meter for each pump Condensation heater Lightning arrestor	ALT-1-2 selection switch High water alarm flasher Manual alarm reset switch Intrinsically safe relays
	esponsible for installing the panel in a manner that osure openings are to be properly sealed in a mann	
	so furnish and install a properly sized and rated main se side of the panel and pump per NEC code.	disconnect switch, separate from the panel, located
6.01 TESTING All system component shall be recorded and	ts shall be fully tested at the factory for proper opera kept on file.	ation. Audits indicating these tests were performed
	ntractor shall complete the start-up report furnished rds and another shall be sent to the system's manuf	
	all be 18 months from date of manufacture, 12 month rt-up report is on file with Zoeller Company.	ns from date of purchase or 12 months from the date



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