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SECTION: Z1.10.135

ZM3069

0821

Supersedes

0418

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

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## MODELS 6155

### SUBMERSIBLE PUMP GUIDE SPECIFICATIONS

*Commercial Duty Effluent Ejectors*



#### 1.01 GENERAL

Contractor shall furnish all labor, material, equipment and incidentals required to provide \_\_\_\_ (QTY.) MODEL 6155 submersible centrifugal effluent / dewatering pump(s) with vortex impellers as specified herein.

#### 2.01 OPERATING CONDITIONS

Each submersible pump shall be rated at 1/2 H.P., \_\_\_\_ volts, 1 phase, 60 HZ., 3450 R.P.M. The unit shall produce \_\_\_\_\_ G.P.M. at \_\_\_\_ feet of T.D.H.

The submersible pump shall be non-overloading and be capable of operating unsubmerged without damaging the pump. The submersible pump shall pass a 3/4" spherical solid. The submitted performance curve shall show the flow and head capacity of the pump. The pump housing configuration shall have a 1.5" N.P.T. vertical discharge.

#### 3.01 CONSTRUCTION

Each pump shall be of the close coupled cCSAus listed Model 6155 submersible pump as manufactured by Zoeller Engineered Products of Louisville, Ky. ( 800-928-7867 ). The castings shall be constructed of epoxy coated class 25 cast iron. The motor shall be oil-filled to dissipate heat and provide continuous lubrication. All external mating parts shall be machined and sealed with viton seals. All fasteners exposed to the liquid shall be 300 series stainless steel. The motor shall be protected on the top side with an attached sealed junction box chamber which in the event of cord damage will prevent moisture wicking into the motor housing. The upper and lower bearings shall be capable of handling all thrust loads. The pump housing shall be of the concentric design thereby equalizing the pressure forces inside the housing which will extend the service life of the seals and bearings. The top cap shall have a SS lifting handle. Inlet screens or strainers are prohibited.

#### 4.01 ELECTRICAL POWER CORD

The pump shall be supplied with 20' \_\_\_\_ 35' / \_\_\_\_ 50' of multiconductor SJOOW power cord. Being capable of continued exposure to the pumped liquid. Power cord shall be sized for the rated full load amp loading of the pump in accordance with the National Electric code. Power cable shall enter into the junction box through a compression type sealing gland. Water sealing and strain relief are separated. The entire junction chamber shall be sealed off from the motor housing by thru wall terminals to protect the motor from moisture.

#### 5.01 MOTOR

The motor shall be an oil filled NEMA B design. At maximum load, the winding temperature will stabilize below the insulation class. Since air-filled motors are not capable of dissipating heat, they shall not be considered equal. Motors shall have an integral thermal overload switch and the capacitor circuit shall be located in the pump assembly.

#### 6.01 BEARINGS AND SHAFT

The upper and lower bearings are continuously lubricated by the oil which fills the motor housing. The motor shaft shall be made of SAE 1045 Carbon steel.

#### 7.01 SEALS

The silicon carbide/ carbon shaft seal is constructed with Buna-n elastomers and a 316 SS spring It shall be equal to a Crane Type 6a configuration.

#### 8.01 IMPELLER

The impeller shall be of an engineered thermoplastic vortex design. It shall be capable of passing a solid sphere of 3/4". It shall have pump out vanes located on the back shroud to keep debris away from the seal area. Attempts to improve efficiency by coating impeller shall not be acceptable.

### 9.01 PAINTING

The castings shall be protected with a green epoxy powder-coated finish.

### 10.01 SERVICEABILITY

Components required for the repair of the pump shall be readily available within 24 hours. Components such as mechanical seals and bearings shall not be of a proprietary design and be available from local industrial supply houses. Special tools shall not be required to service the pump. A network of service stations shall be available nationwide in those cases where service requirements are beyond the scope of in-house service mechanics.

### 11.01 SUPPORT

The pump shall have cast iron support legs enabling it to be a free standing unit.

When ground level access and retrieval is preferred, the following system is available.

\_\_\_\_\_ The Z-Rail™ disconnect system, consisting of an epoxy coated ductile iron disconnect fitting, slide assembly and upper rail support. Rail pipes and lifting cables are not included.

### 12.01 TESTING:

Each pump shall be operated and tested under submerged conditions before being shipped. It shall be checked at its maximum operating points for grounding, winding insulation, and water tightness.

### 13.01 WARRANTY

Standard warranty shall be 18 months from date of manufacture, 12 months from date of installation or 12 months from the date of start up with a start up report on file with Zoeller.



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