



**SHIPPENSBURG PUMP CO. INC.**

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**Pride**

**Quality**

**Craftsmanship**

**BULLETIN 136**

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**MODEL U**

**UNDERGROUND PUMPS**

*24" Columns and Deeper*

OR

**MODEL MU**

**MODIFIED UNDERGROUND PUMPS**

*for Columns up to 23" Deep*

**BRONZE FITTED**

**UNDERGROUND PUMPS**

*for Columns up to 23" Deep*

*U.S. Patent #4,932,846*

**SHIPCO<sup>®</sup>**  
**SPUMPS**

equipped with Mechanical Seals rated up to a standard 250°F.  
*Higher temperature seals and special faces available upon request.*

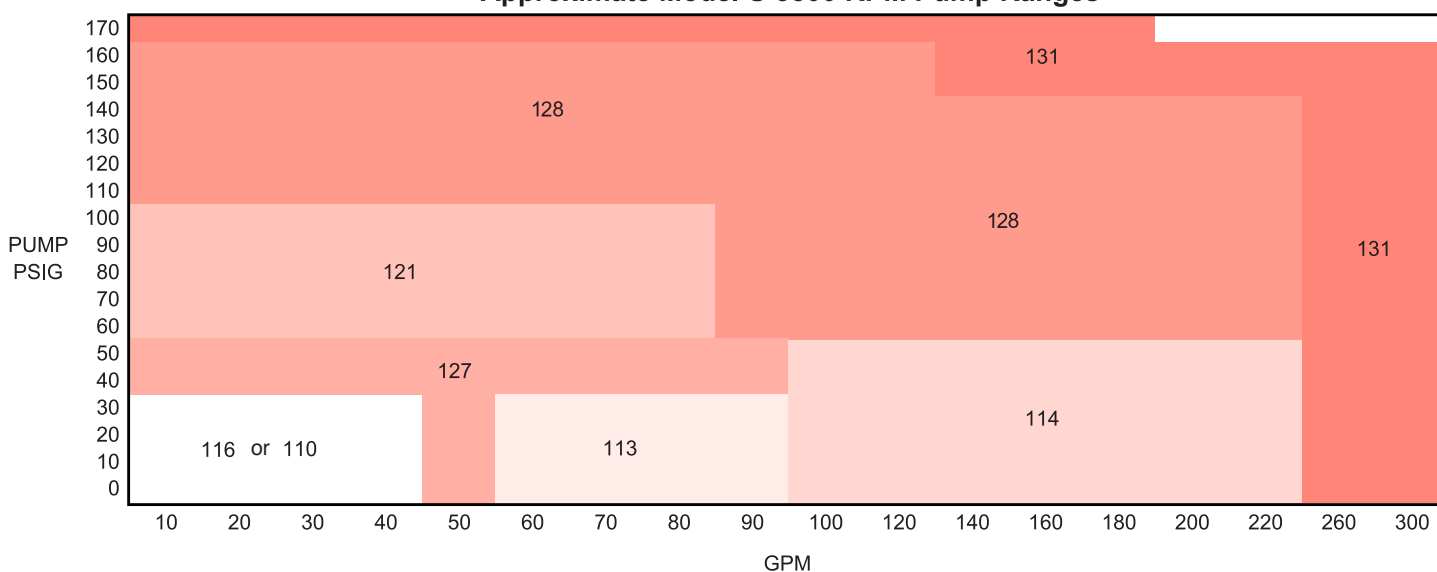
**Charted units are a representation of the typical systems and sizes used.**

***Higher pump pressures and larger pump capacities are available.***

## MODEL U DESCRIPTION

- Impeller is cast bronze, enclosed vane, precision balanced, and trimmed to design conditions for smooth durable operation.
- Motors are NEMA Standard, heavy duty, ball bearing design with stainless steel shafts, 3500 RPM.
- Pumps are fully tested before leaving the factory.
- Various shaft lengths are available. Deep pits are not a problem up to 324 in. depth.
- Propeller Shaft is 316 Stainless Steel.
- Rubber Bearing Assembly (U.S. Patent #4,932,846)
- Suction Strainers for increased protection against dirt and debris. (Not available on Model 110 U nor on any Model MU Pump).
- Pumps Hot Condensate which is impossible for submersible type pump, due to motor restrictions.
- Standard Mechanical Seal is EPR with a ceramic seat rated for 250°F.
- Standard Suction Column is black steel. 304 or 316 Stainless Steel is available upon request.
- Pump Head and Case are made of close grained cast iron.
- Water Slinger is BUNAN for high temperature resistance.
- Pumps can have 2 ft. NPSH capabilities based on curve and column depth.
- Propeller is 400 Series Stainless.

**Approximate Model U 3500 RPM Pump Ranges**



**Model U pumps are designed for applications where pit depth is between 24 in. and 324 in. (27 ft.).**

Flows up to 110 GPM have a 2½" diameter column size.

Flows from 111 GPM to 230 GPM have a 3½" diameter column size.

Flows from 231 GPM to 300 GPM have a 4" diameter column size.

**SHIPCO®**'s Model U and Model MU Centrifugal Pump are close coupled to the motor and above the cover plate, making removal very easy and simple without disturbing the cover plate.

The Model U Pump and motor assembly has submerged propellers, and in the first stage the propeller is small, fitting within the column, which helps conduct the water upward. The propeller shaft and its high temperature patented bearing design (U.S. Patent #4,932,846) is more durable and simpler than most other designs which generally have chronic lower bearing failure.

Model MU pumps are designed for shallow pits up to 23" in depth with no strainers due to the pump being used inside an enclosed vessel. Pumps can be fitted to match Weil, Peerless, Chicago, Federal or Roth.