

CUP-VSM

VERTICAL BOWL TYPE SUBMERSIBLE MOTOR PUMP SET

PUMP OVERVIEW

The ClydeUnion Pumps range of CUP-VSM pumpsets are of either single or multi-stage centrifugal pump design integrated with a submersible water filled motor. This advanced design boasts high efficiency, an excellent track record of reliability and occupies minimal surface installation area.

Features such as our enhanced cooling system, header tank protection device, integral power cable connection, reverse rotation capability, and transportation and erection cradle enable the optimum package solution to be achieved. Both pump and motor can be manufactured in a wide range of materials, dependent upon water quality and temperature. Typical applications for these centrifugal pumps include firewater and seawater lift duties on platforms and FPSO's, offshore cooling water supply and borehole extraction.

TYPICAL APPLICATIONS

- Seawater lift + firewater
- Cooling water supply
- Mains booster
- Raw water intake
- Borehole extraction
- Dewatering

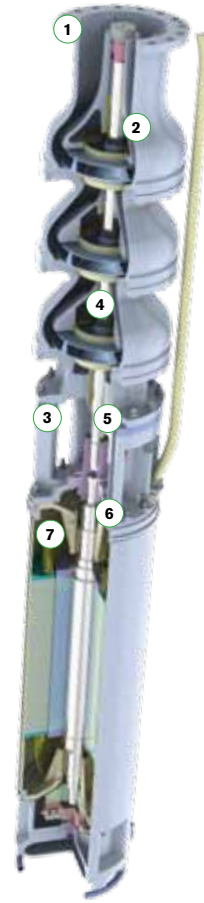
TECHNICAL DATA

Capacity:	up to 6,500 m ³ /hr / 28,620 USgpm
Delivery head:	up to 300 m / 984 ft
Temperature:	up to 40 °C / 105 °F
Speeds:	up to 3,600 rpm
Flange drilling:	ANSI or BS



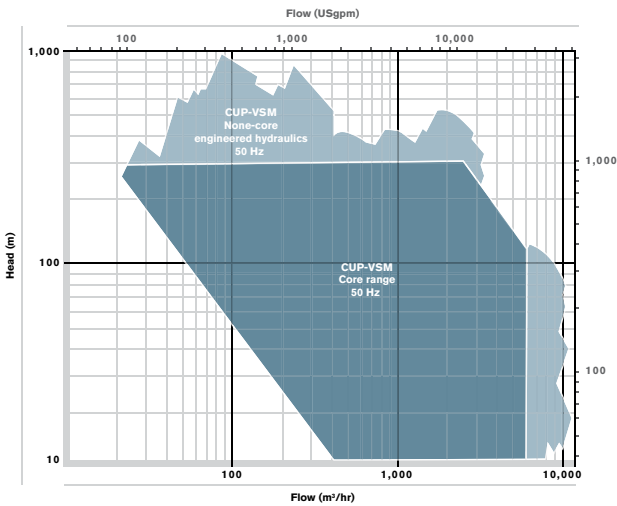
FEATURES + BENEFITS

- 1 **Comprehensive range coverage**
Allows pump selection at or close to optimum performance.
Special first stage impeller available for improved Nss
- 2 **Pump bowls**
Incorporate diffuser guide passages to deliver the fluid smoothly from stage to stage
- 3 **Enhanced cooling system**
Achieves higher power ratings per frame size than comparable motors on the market
- 4 **Reverse rotation capability**
Negates need for submerged NRV above pump bowls. Protects against damage caused by falling water column during shutdown
- 5 **Coupling**
Keyed sleeve type for reliable power transmissions. Mechanically connected to shaft ensuring maximum rigidity
- 6 **Mechanical seal**
High reliability cartridge design. Fitted to outer diameter of coupling for ease of access
- 7 **Bearings (motor)**
Water lubricated carbon loaded PTFE thrust and journal bearings

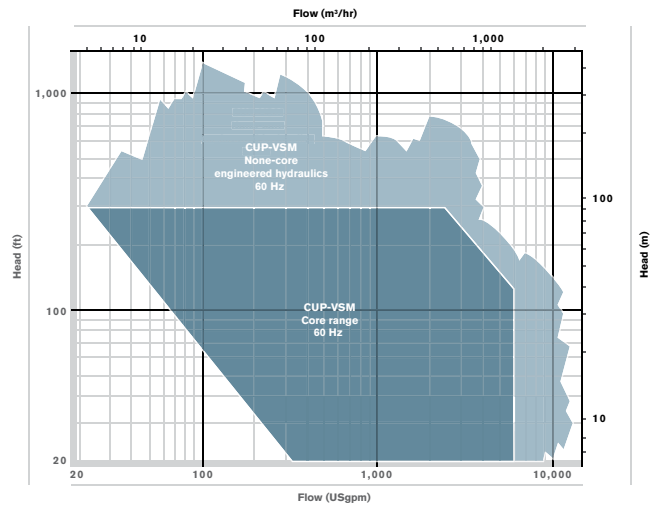


RANGE COVERAGE CHARTS

50HZ RANGE CHART



60HZ RANGE CHART



These charts cover the standard pump range. Other engineering designs exist for extreme applications

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