

### VERTICAL TURBINE PUMP UNITS

Vertical Turbine Pumps provide an efficient way to handle large volume of liquids in a relatively short period of time. The pumps are designed to handle variety of liquids including but not limited to fuel oil, various petroleum products, sea water, condensates, etc.

The unit's modular bowl design, in conjunction with the primary and separation chambers, provides a significant flexibility to meet specific capacity, pressure and speed requirements. Furthermore, the unit is self priming and operates as a vacuum pump for exhausting air or vapors from the suction line, thus eliminating the need for a separate vacuum pump or other auxiliary equipment.

In petroleum applications, the pollution prevention safe guards helps prevent costly oil spills. Any leakage from the mechanical seal or stuffing box is contained within the discharge head. A sight gage allows visual inspection for the presence of liquid without removal of any parts.

For additional flexibility, the units can be equipped to operate with diesel or gasoline engines, electric motors, or steam turbines.

### CONSTRUCTION STANDARDS

- Ductile iron casing for longevity.
- Bronze, steel, or Stainless Steel impellers to meet variety of

applications. High grade stainless steel shafting material.

- High grade stainless steel stuffing box.
- High grade stainless steel split couplings.

### KEY FEATURES AND BENEFITS

#### FEATURES

- Self-priming stripper stage with gas bypass.
- Multi-stage design
- Seal Caps with overflow protection
- Semi-open impeller design
- Split shaft design
- Custom design discharge head
- Custom designed pump wells.

#### BENEFITS

- Eliminates the need for a vacuum pump or other types of auxiliary equipment.
- Ability to meet a wide range of flow and pressure requirements.
- Pollution prevention against leakage from the stuffing box or mechanical seals.
- Operates more efficiently and can be adjusted axially to compensate for casing wear.
- Easier to exchange and replace worn parts.
- Designed for variety of installations.
- Specifically designed for the customer's application.

