

SERIES 4810

MODEL VT

VERTICAL TURBINE OPEN-LINESHAFT

Sizes: 4" to 42" Discharge
Bowls: 5" to 52" Diameter
Flows: To 34,000 GPM
Heads: To 980 Feet
Temp: To 250°F

Services:

Cooling Water
Raw Water Intake
Sea Water
Industrial Process
Condenser Circulating
Irrigation & Drainage
Municipal Water Supply

DISCHARGE HEAD

- Supplied standard in ASTM A48 class 30 cast iron
- Fabricated steel discharge heads (above base, below base & inline) available upon request
- Optional oil-lubricated motor stand for high axial thrust applications
- Discharge gauge package with 304 stainless steel buffer tube, fittings and ball valves
- Discharge flanges supplied in 250 PSI rating with integral o-ring groove for high pressure applications
- Integral drip basin with threaded connection collects all packing leakage
- Alternate metallurgy options available upon request

BOWL ASSEMBLY

- Supplied standard in ASTM A48 class 30 cast iron with vitreous enamel interior lining
- Heavy wall thickness for corrosion allowance and high pressure applications
- Includes investment cast, 316 stainless steel, single suction impellers
- Impellers can be offered in enclosed or semi-open design for aggressive applications
- Optional bowl and impeller wear rings upon request
- Francis impeller design allows for broad band, high efficiency performance
- Impellers are machined and dynamically balanced prior to assembly
- 416 stainless steel bowl steel shaft is stronger than standard carbon steel and has superior corrosion resistance
- Keyed impeller construction for high pressure applications upon request
- Bronze bowl bearings with a wide variety of other materials upon request
- All stages feature o-ring construction making sure no leakage is present
- Dual bearing discharge supplied standard in ASTM A536 ductile iron case for additional shaft support at the top of the bowl assembly
- Alternate metallurgy options available upon request

STRAINER

- Supplied standard in conical or basket design in galvanized steel, all bronze, all 304 or all 316 stainless steel construction
- Protects the bowl assembly from large solids that may be present in the pumped fluid
- Alternate metallurgy options available upon request

DRIVER

- Vertical hollowshaft (VHS), vertical solid shaft (VSS) or right angle gear drive (RAG)(when Diesel engine driven) driver construction
- Options include non-reverse ratchet (NRR) or self release coupling (SRC)
- Thrust bearing designed to carry all axial thrust generated by vertical turbine bowl assembly
- The top adjusting nut (VHS orientation) allows for the adjustment of lateral

PACKING HOUSING KIT

- Modular design maximizes the sharing of common components
- 304 stainless steel gland assemblies ensure that packing can be adjusted without the worry of corrosion
- High pressure bypass port minimizes packing leakage on high pressure applications
- Packing, stretch nipple kit and/or mechanical seal housings available based on job-site requirements

COLUMN ASSEMBLY

- Heavy wall, carbon steel construction
- Threaded column for easy assembly and disassembly
- Optional flanged construction available upon request
- 416 stainless steel shaft is stronger than standard carbon steel and has superior corrosion resistance
- Product lubricated lineshaft bearings with integral 304 stainless steel lineshaft sleeve
- 304 stainless steel spiders standard construction
- Overall length (OAL) is engineered to meet the requirements at the job-site
- Smaller HP models feature threaded lineshaft couplings while larger sizes have keyed lineshaft couplings standard
- Alternate metallurgy options available upon request

