

SERIES 4820

MODEL MF

MIXED FLOW

Sizes: 12" to 96" Discharge
Bowls: 16" to 64" Diameter
Flows: To 180,000 GPM
Heads: To 200 Feet
Temp: To 250°F

Services:

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

DISCHARGE HEAD

- Supplied standard in ASTM A36 carbon steel
- All discharge heads feature a dual safety guard designed to completely protect the user from all rotating parts
- Available in an above base or below base construction
- Dedicated support for the nameplate allows for a high visibility design
- Discharge gauge package with 304 stainless steel buffer tube, fittings and ball valves
- Discharge flanges supplied in 125 PSI or 250 PSI rating with flat face or raised face for high pressure applications
- Integral drip basin with threaded connection collects all packing leakage
- Optional oil lubricated thrust stand available upon request
- Alternate metallurgy options available upon request

BOWL ASSEMBLY

- Supplied standard in ASTM A48 cast iron
- Heavy wall thickness for corrosion allowance and high pressure applications
- Includes investment cast, 304 stainless steel, Mixed Flow impellers
- 304 stainless steel shaft sleeves completely protect the shaft from wear and corrosion
- Mixed Flow 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 horsepower applications
- Bronze bowl bearings with a wide variety of other materials upon request
- All stages feature o-ring construction making sure no leakage is present
- Flanged construction with jackscrew threads for easy assembly and disassembly
- Alternate metallurgy options available upon request

STRAINER

- Supplied standard in 304 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 shaft sleeves completely protect the shaft from wear and corrosion
- 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
- Labyrinth style design for lower and upper throat bushings keep pressure losses at a minimum
- 304 stainless steel shaft sleeve nuts are located outside of the fluid chamber minimizing corrosion and allowing for an easier disassembly when the need for service arises
- Wide variety of component or cartridge mechanical seal available upon request

COLUMN ASSEMBLY

- Heavy wall, carbon steel construction
- Flanged construction makes assembly and disassembly very easy
- 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
- Optional enclosed lineshaft option for deepset and/or abrasive protection
- Overall length (OAL) is engineered to meet the requirements at the job-site
- All flanges feature o-ring construction making sure no leakage is present
- Flanged construction with jackscrew threads for easy assembly and disassembly
- Smaller HP models feature threaded lineshaft couplings while larger sizes have keyed lineshaft couplings standard
- Alternate metallurgy options available upon request