



**PUMPENGINEERING INC.**

Harnessing the Power of Liquid Energy

## LPT-500 Low Pressure TurboCharger

### Capacity

301 gpm to 600 gpm @ 250 psi

68.36 m<sup>3</sup>/h to 136.27 m<sup>3</sup>/h @ 17.24 bar

### Delivery

Eight (8) weeks standard delivery.

Priority delivery service also available.

### Materials of Construction

Rotor: AL6XN

Bearings: Graphitar 39

Casings: SS304, SS316, or Duplex Stainless Steel Alloy 2205

### Interstage Pressure Boosting Benefits

- Lowest energy consumption rate
- Balance flux rates between 1st and 2nd stage
- Reduce fouling potential of the 1st stage
- Increased 2nd stage pressure compensates for higher osmotic pressure - providing higher quality product water
- Patented Design - Interstage Pressure Boosting of a multi-stage RO system is covered by PEI patent U.S. 4,983,305.

### Design Features

**Casings** are designed for a maximum of 600 psi (41.38 bar) operating pressure. Turbine casing volutes are machined for high efficiency and correct turbine differential pressure. Pump Casings are designed for a range of cast volutes achieving high efficiency throughout the capacity range.

**Dynamically Balanced Impellers** precision cast three dimensional complex geometry impellers for maximum efficiency.

**Product lubricated journal bearings** eliminate shaft seals and oil/grease lubrication and provide years of maintenance free operation.

**Hydrostatic Thrust Bearing** - Product lubricated thrust bearing allows turbine to run with 98% volumetric efficiency.

**Radially split casing** for complete and easy access for maintenance.

**Circumferential mounting** allows complete rotation of turbocharger pipe connections for easy piping fit up.

HARNESsing THE POWER OF LIQUID ENERGY

**HTC AT**  
ADVANCED TECHNOLOGY



**LPT**  
LOW PRESSURE



**HPT**  
HIGH PRESSURE



**HALO**

