

## TSURUMI PUMP UZ - SERIES VORTEX - SEWAGE & WASTEWATER PUMPS **UZ - SERIES**

SPECIFICATIONS

	OI LOII IOATION
1. SCOPE OF SUPPLY -	
Furnish and install TSURUMI Model Submersible Pump(s). Each unit delivering GPM(m³/min) at Feet (m) TDH. The pump to pump waste water, sewage or effluent containing inch (mm) diameter solids during operation. The pump(s) shall be designed so that the shaft power required (BHP)/(k¹ the motor rated output throughout the entire operating range of the pump performance curve discharge size shall beinch, (mm).	(s) shall be designed s without damage W) shall not exceed
2. MATERIALS OF CONSTRUCTION -	
Construction of major parts of the pumping unit(s) including pump casing, impeller, and disc manufactured from gray cast iron, ASTM A48 CLASS 35. Internal and external surfaces con the pumpage shall be protected by a fused polymer coating. All exposed fasteners shall be units shall be furnished with a discharge elbow with 150 lb. (10 kg/cm²) flat face flange and flange. Impellers shall be of the vortex, solids handling design equipped with back pump out shall be slip fit to the shaft and key driven.	ming into contact with e stainless steel. All NPT companion
3. MECHANICAL SEAL -	
All units shall be furnished with a dual inside mechanical shaft seal located completely running in a separate oil filled chamber and further protected by an exclusionary oil seal located bottom seal faces and the fluid being pumped. The oil chamber shall be fitted with a device positive lubrication of top mechanical seal, (down to one third of the standard oil level). The consume any additional electrical power. Mechanical seals shall rated to preclude the incur 42.6 PSI. (98.4 Ft.). Units shall have silicon carbide mechanical seal faces. Mechanical stainless steel.	ated between the that shall provide device shall not sion of water up to
4. MOTOR -	
The pump motor(s) shall be Hp., kW., V., 60 Hz., 3 Phase and shall be Design Type B equivalent. Motor(s) shall be rated at full load amps. Motor(s) shall factor and shall be rated for 20 starts per hour. Motor(s) shall be air filled, copper wound, cl with built in thermal and over amperage protection for each winding. Motor shaft shall be 40 shall be supported by two permanently lubricated, high temperature ball bearings, with a Befficiency point of 60,000 hours. The bearings shall be single row, double shielded, C3, deep bearings. Motor housing and bearing housing shall be gray cast iron, ASTM A48 CLASS 30 suitable variable speed applications, utilizing a properly sized variable frequency drive.	ass E or F insulated 3 stainless steel and 10 life rating at best p groove type ball
5. POWER CABLE AND CABLE ENTRANCE -	
The pump power cable shall be suitable for submersible pump applications. The cable enti- built in strain relief, a one piece, three way mechanical compression seal with a fatigue red cable entrance assembly shall contain an anti-wicking block to eliminate water incursion into Capillary wicking should the power cable be accidentally damaged.	lucing cable boot. The