TSURUMI PUMP

FEATURES

- 1. Semi-vortex, FRP (Fiberglass Reinforced Plastic), impeller passes solids and stringy material without clogging and increases wear resistance when pumpage contains abrasive particles.
- 2. Double inside mechanical seals with silicon carbide faces, running in an oil filled chamber and further protected by a lip seal, provides for the most durable seal design available.
- 3. Highly efficient, continuous duty, 1. Residential, commercial, air filled, copper wound motor with class E, insulation minimizes the cost of operation.
- 4. Built in thermal & amperage sensing, protector prevents motor failure due to overloading, single phasing (in three phase units), or accidental run -dry conditions.

VANCS SERIES - PN

(FRP) SEMI-VORTEX - WASTEWATER PUMPS

- 5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours, extend operational life.
- 6. Utilization of application appropriate FRP & stainless steel components increases corrosion resistance in a wide variety of applications.

APPLICATIONS

- industrial, effluent, wastewater and site drainage.
- 2. Chemical spill containment.

4. Raw water supply from rivers

3. Decorative waterfalls, fountains and fish ponds.

or lakes.



OPTIONS



SPECIFICATIONS

Discharge Size Horsepower Range Performance Range Capacity Head Maximum water temperature Materials of Construction Casing (upper)/(lower) Impeller Shaft Motor Frame Fasteners

Mechanical Seal Elastomers

Impeller Type Solids Handling Capability

Bearings

Motor Nomenclature Type, Speed, Hz. Voltage, Phase Insulation

Accessories

Operational Mode

STANDARD 2"~ 3" N.P.T. (50~ 80 mm)

1/3 ~ 5 (.25 ~ 3.7 kW) 10.6 ~ 224.6 G.P.M. (.04 ~ .85 m³/min) 10.7 Ft. ~ 95.1 Ft. (3.25 ~ 28.99 m) 104° F. (40° C.)

FRP (ABS + G20) / ABS FRP(PPO + G20)403 Stainless Steel 304 Stainless Steel 304 Stainless Steel

Silicon Carbide NBR (Nitril Buna Rubber)

Semi-Vortex, solids handling. .4" ~ .8" (10 ~ 20mm)

Pre-lubricated, Double Shielded

Air Filled, 3600 Rpm, 60 Hz. 115 or 230 V.,1 Phase., 208-220, 230, 460, or 575 V., 3 Phase. Class E

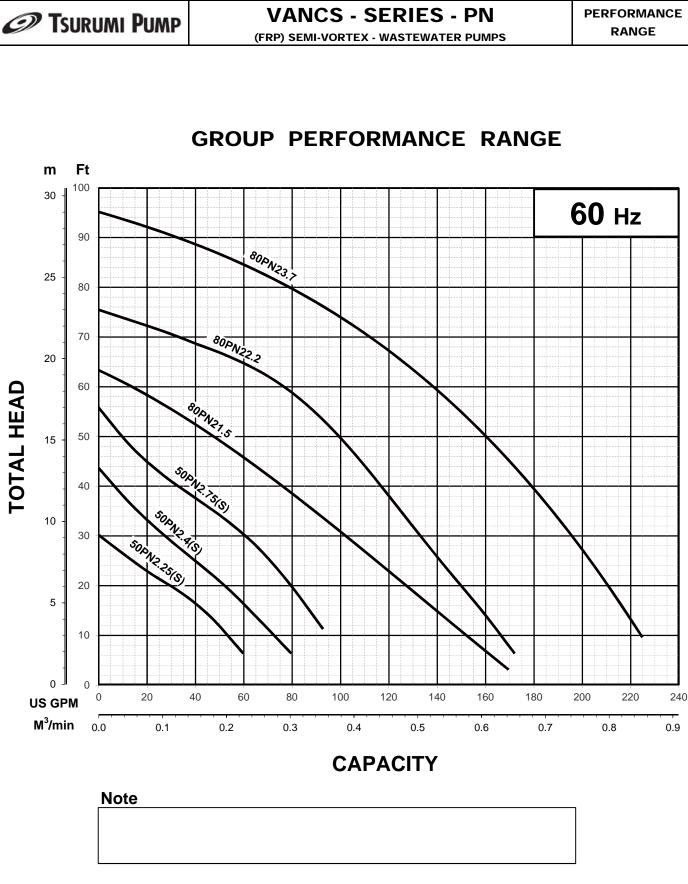
Submersible Power Cable 32' (10 m)

Nema 3R inverter available for 230 V.,1 Ph. operation for 2 Hp.

Length as Required

Model A(Automatic), Model AW (Automatic Alternating) TOK (FRP) Slide rail system





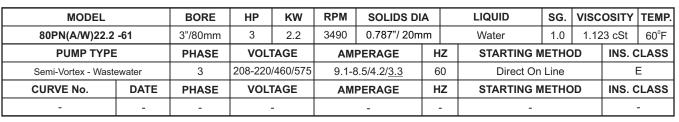
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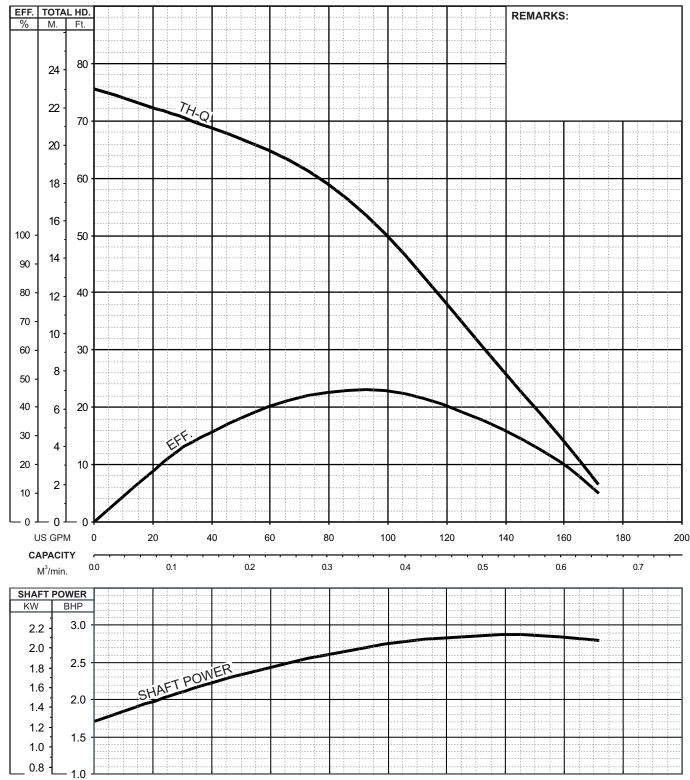


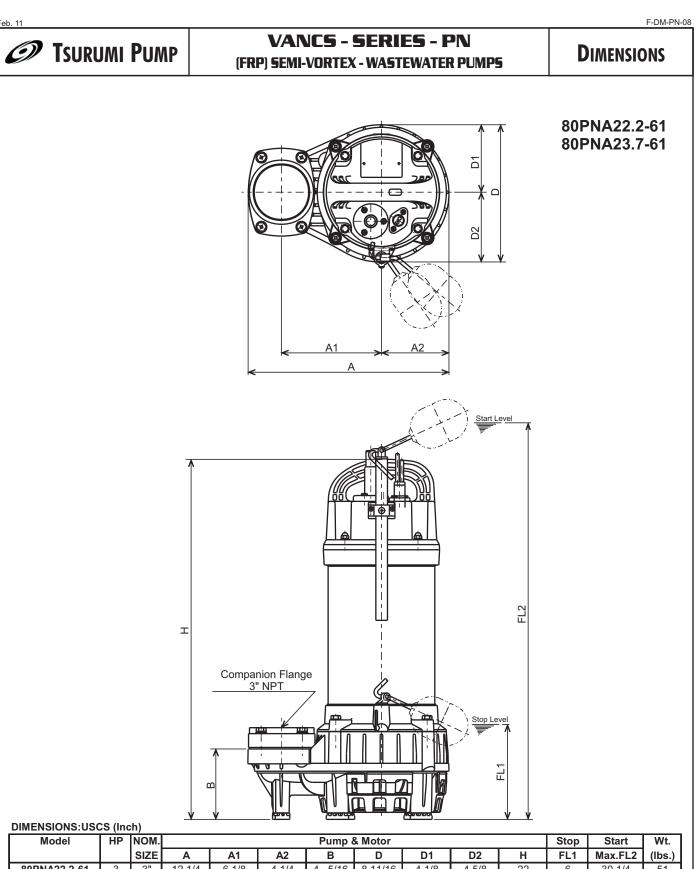
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Performance Curve

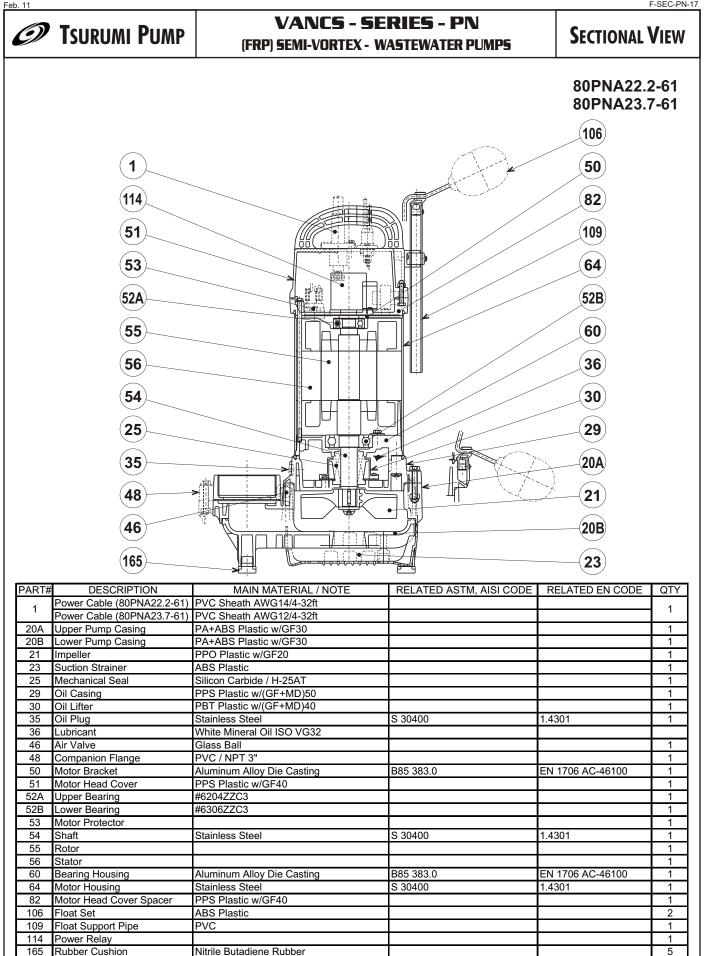






		SIZE	Α	A1	A2	В	D	D1	D2	н	FL1	Max.FL2	(lbs.)
80PNA22.2-61	3	3"	12 1/4	6 1/8	4 1/4	4 5/16	8 11/16	4 1/8	4 5/8	22	6	30 1/4	51
80PNA23.7-61	5	3"	12 1/4	6 1/8	4 1/4	4 5/16	8 11/16	4 1/8	4 5/8	23 3/8	6	31 5/8	62

DIMENSIONS:ME	IMENSIONS:METRIC (mm)												
Model	kW	NOM.		Pump & Motor								Start	Wt.
		SIZE	Α	A1	A2	В	D	D1	D2	Н	FL1	Max.FL2	(kg)
80PNA22.2-61	2.2	80	311	155	105	110	221	104	117	559	152	767	23
80PNA23.7-61	3.7	80	311	155	105	110	221	104	117	594	152	802	28





VANCS - SERIES - PN (FRP) SEMI-VORTEX - WASTEWATER PUMPS

SAMPLE SPECIFICATIONS

1. SCOPE OF SUPPLY -

Furnish and install TSURUMI, VANCS Model ______ Submersible Pump(s). Each unit shall be capable of delivering _____ GPM(____m³/min) at _____ Feet (_____m) TDH. The pump(s) shall be designed to pump waste water, sewage or effluent containing _____ inch (____mm) diameter solids without damage during operation. The pump(s) shall be designed so that the shaft power required (BHP)/(kW) shall not exceed the motor rated output throughout the entire operating range of the pump performance curve. The pump discharge size shall be ____inch, (____mm).

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) including pump casing, impeller, motor head cover and intermediate brackets shall be manufactured from recyclable, application appropriate resins. The need for a protective coating shall not be required. All exposed fasteners shall be stainless steel and shall have stainless steel mating anchors integrally cast into the mating part. All units shall be furnished with a NPT discharge companion flange. Impellers shall be of the multi-vane, semi-vortex, solids handling design and shall be slip fit to the shaft. The motor shaft shall be machined to provide a positive drive of the impeller. The pump casing shall incorporate an air relief valve.

3. MECHANICAL SEAL -

All units shall be furnished with a dual inside mechanical shaft seal located completely out of the pumpage, running in a separate oil filled chamber. Units shall be fitted with a device that shall provide positive lubrication of top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Units shall have silicon carbide mechanical seal faces. Mechanical Seal hardware shall be stainless steel.

4. MOTOR -

5. POWER CABLE AND CABLE ENTRANCE -

The pump power cable shall be suitable for submersible pump applications. The cable entrance shall incorporate built in strain relief, a one piece, three way mechanical compression seal with a fatigue reducing cable boot. The cable entrance assembly shall contain an anti-wicking block to eliminate water incursion into the motor due to Capillary wicking should the power cable be accidentally damaged.