PSF-BI -P1



VANCS SERIES - PSF

(FRP) EFFLUENT PUMPS

SPECIFICATIONS

FEATURES

- 1. Enclosed, FRP (Fiberglass Reinforced Plastic), impeller provides for high head pumping of effluent or water.
- 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.
- 2. Highly efficient, continuous duty, 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, 2. Chemical spill containment. single phasing (in three phase units), or accidental run -dry conditions.

- 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

- 1. Residential, commercial, effluent, wastewater and site drainage.
- 3. Decorative waterfalls, fountains and fish ponds.
- 4. Raw water supply from rivers or lakes.







■ 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 ~ 80mm) $1/3 \sim 5$ Hp. (.25 ~ 3.7 kW) $6.6 \sim 203.4 \text{ G.P.M.} (.03 \sim .85 \text{ m}^3/\text{min})$ 16.4 ~ 111.5 Ft. (5.0 ~ 33.99 m) 104° F. (40° C.)

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

Silicon Carbide NBR (Nitril Buna Rubber)

Enclosed, Multi-vane .32 ~.51" (8~13 mm)

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)

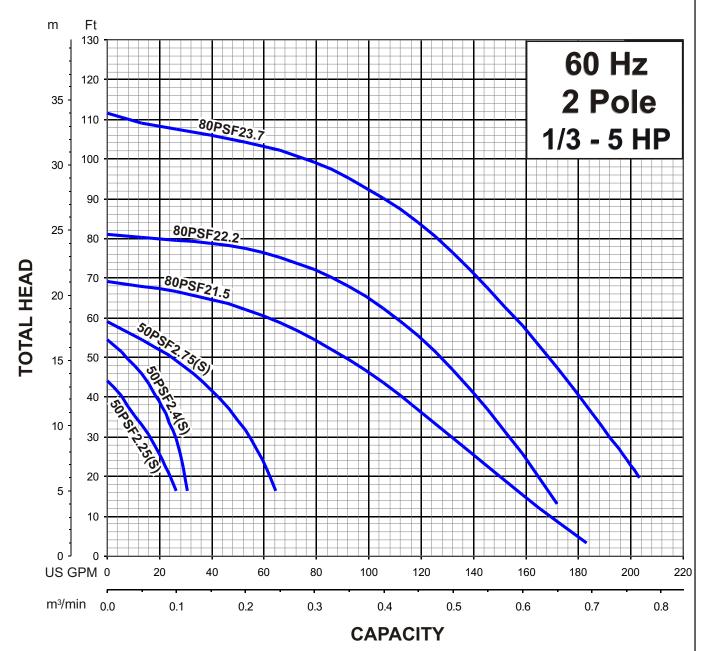
OPTIONS

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

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PERFORMANCE RANGE

PERFORMANCE RANGE



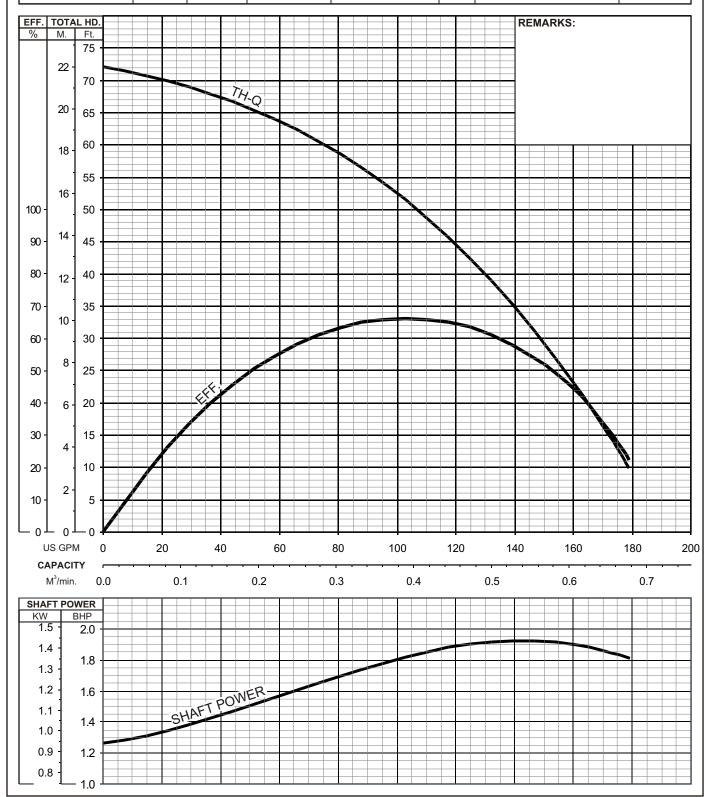
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PERFORMANCE CURVE

MODEL		BORE	HP	KW	RPM	SOLIDS DI	A	LIQUID	SG.	VISC	OSITY	TEMP.
80PSF(A/W)21.5	5-62	3"/80mm	2	1.5	3455	0.512"/ 13m	/ 13mm Water		1.0	1.12	3 CST	60°F
PUMP TYPE	PUMP TYPE		VOL.	TAGE	AM	PERAGE	HZ	STARTING METHOD		INS. CLASS		
Effluent Pum	ρ	3	208 - 220 / 440		6.9 - 6.6 / 3.6		60	Direct On Line			E	Ε
CURVE No.	DATE	PHASE	VOL.	TAGE	AM	PERAGE	HZ	STARTING N	METHO	D	INS. C	LASS
-	-	-		-		-	-	-				-

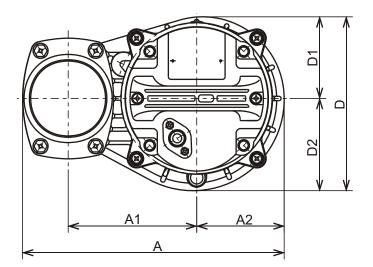


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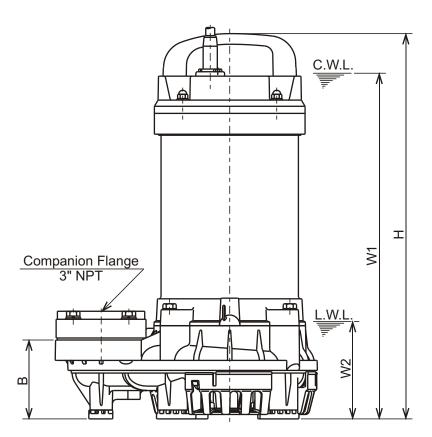


VANCS - SERIES - PSF (FRP) EFFLUENT PUMPS

DIMENSIONS



80PSF21.5-62



C.W.L. : Continuous running Water Level L.W.L. : Lowest running Water Level

DIMENSIONS:USCS (In ch)

Model	HP	NOM.		Pump & Motor						C.W.L.	L.W.L.	Wt.	
		SIZE	Α	A1	A2	В	D	D1	D2	Н	W1	W2	(lbs.)
80PSF21.5-62	2	3"	11 5/8	5 11/16	3 7/8	3 1/2	7 11/16	3 5/8	4 1/8	17 1/8	15 3/8	4 3/8	35.2

DIMENSIONS:METRIC (mm)

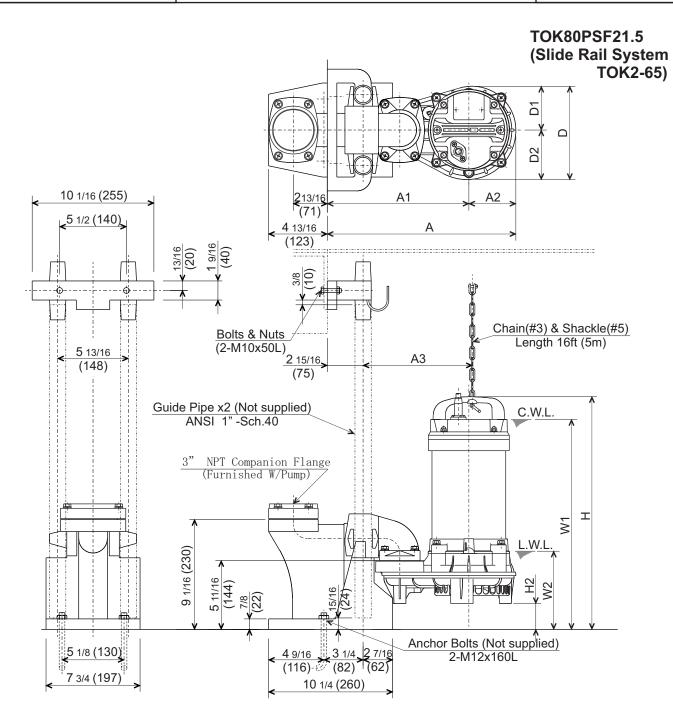
Model	kW	NOM.		Pump & Motor							C.W.L.	L.W.L.	Wt.
		SIZE	Α	A1	A2	В	D	D1	D2	Н	W1	W2	(kg)
80PSF21.5-62	1.5	80	295	145	99	89	196	92	104	435	390	110	16.0

or. 02 G-DM-PSF-02



VANCS-SERIES - PSF (FRP) EFFLUENT PUMPS

DIMENSIONS



C.W.L. : Continuous running Water Level L.W.L. : Lowest running Wtaer Level

DIMENSIONS:USCS (Inch)

Model	HP	NOM.		Pump & Motor					C.W.L.	L.W.L.	Wt.			
		SIZE	Α	A1	A2	A3	D	D1	D2	Н	H2	W1	W2	(lbs.)
TOK80PSF21.5	2	3"	15 9/16	11 11/16	3 7/8	9 1/16	7 11/16	3 5/8	4 1/8	19 1/4	2 1/8	17 3/8	6 1/2	34.8

DIMENSIONS:METRIC	(mm)	۱

Model	kW	NOM.		Pump & Motor					C.W.L.	L.W.L.	Wt.			
		SIZE	Α	A1	A2	A3	D	D1	D2	Н	H2	W1	W2	(kg)
TOK80PSF21.5	1.5	80	396	297	99	231	196	92	104	489	54	441	164	15.8

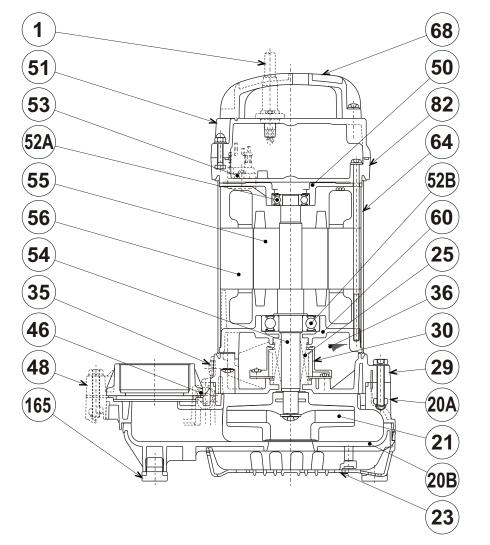
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VANCS - SERIES - PSF (FRP) EFFLUENT PUMPS

SECTIONAL VIEW

80PSF21.5-62



PART#	DESCRIPTION	MAIN MATERIAL / NOTE	RELATED ASTM, AISI CODE	RELATED EN CODE	QTY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	PA+ABS Plastic w/GF30			1
20B	Lower Pump Casing	PA+ABS Plastic w/GF30			1
21	Impeller	PPO Plastic w/GF20			1
23	Suction Strainer	ABS Plastic			1
25	Mechanical Seal	Silicon Carbide / H-20A			1
29	Oil Casing	PPS Plastic w/(GF+MD)50			1
30	Oil Lifter	PBT Plastic W/(GF+MD)40			1
35	Oil Plug	Stainless Steel	S 30400	1.4301	1
36	Lubricant	White Mineral Oil ISO VG32			
46	Air Valve	Glass Ball			1
48	Companion Flange	PVC / NPT 3"			1
50	Motor Bracket	Aluminum Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
51	Motor Head Cover	PPS Plastic w/GF40			1
52A	Upper Bearing	#6203ZZC3			1
52B	Lower Bearing	#6305ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	S 30400	1.4301	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
64	Motor Housing	Stainless Steel	S 30400	1.4301	1
68	Handle	ABS Plastic			1
82	Motor Head Cover Spacer	PPS Plastic w/GF40			1
165	Rubber Cusion	Nitrile Butadiene Rubber			5

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VANCS - SERIES - PSF (FRP) EFFLUENT PUMPS

SAMPLE SPECIFICATIONS

	<u> </u>		JI ECH ICAHOMS
1. SCOPE OF SUPPLY -			
Furnish and install TSURUMI, VA capable of deliveringG designed to pump waste water, s damage during operation. The p exceed the motor rated output th discharge size shall beinch,	GPM(m³/min) at sewage or effluent containing oump(s) shall be designed so tha proughout the entire operating rai	Feet (m) TDH inch (mm) diam It the shaft power required	The pump(s) shall be seter solids without (BHP)/(kW) shall not
2. MATERIALS OF CONSTR	RUCTION -		
Construction of major parts of the intermediate brackets shall be maprotective coating shall not be resteel mating anchors integrally case companion flange. Impellers shamotor shaft shall be machined to relief valve.	anufactured from recyclable, app quired. All exposed fasteners s ast into the mating part. All unit all be of the multi-vane, enclosed	olication appropriate resins hall be stainless steel and s shall be furnished with a I design and shall be slip fit	. The need for a shall have stainless NPT discharge t to the shaft. The
3. MECHANICAL SEAL -			
All units shall be furnished with a running in a separate oil filled chatop mechanical seal, (down to on electrical power. Units shall have Stainless steel.	amber. Units shall be fitted with ne third of the standard oil level).	a device that shall provide The device shall not cons	positive lubrication of sume any additional
4. MOTOR-			
The pump motor(s) shall be	or(s) shall be rated at full arts per hour. Motor(s) shall be a ge protection. Motor shaft shall temperature ball bearings, with ll be single row, double shielded I or aluminum die casting. Motor	load amps. Motor(s) shall air filled, copper wound, cla be 403 stainless steel and a B-10 life rating at best ef, C3, deep groove type bal r housing shall be 304 stair	have a 1.15 service ass E insulated with shall be supported by ficiency point of I bearings. Bearing aless steel. Motors
5. POWER CABLE AND CAR	BLE ENTRANCE -		
The pump power cable shall be s built in strain relief, a one piece, cable entrance assembly shall co Capillary wicking should the pow	three way mechanical compressiontain an anti-wicking block to el	sion seal with a fatigue rec iminate water incursion int	lucing cable boot. The