



**TSURUMI PUMP**

**TM**

1-phase  
3-phase  
50Hz

Submersible titanium seawater pump

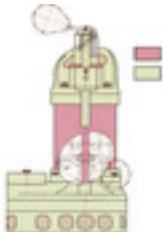
Titanium is used in all the wet metal parts of the TM pumps. Titanium has a far stronger oxide film on its surface than stainless steel does. This prevents the pumps from being corroded in the seawater which has a very high chlorine ion concentration.





## Vortex Impeller

This impeller is used mainly to avoid clogging or wear by large or stringy solids in the water. It accelerates part of the water to great speed, and this speed is used to smoothly move all the water from inlet to outlet.



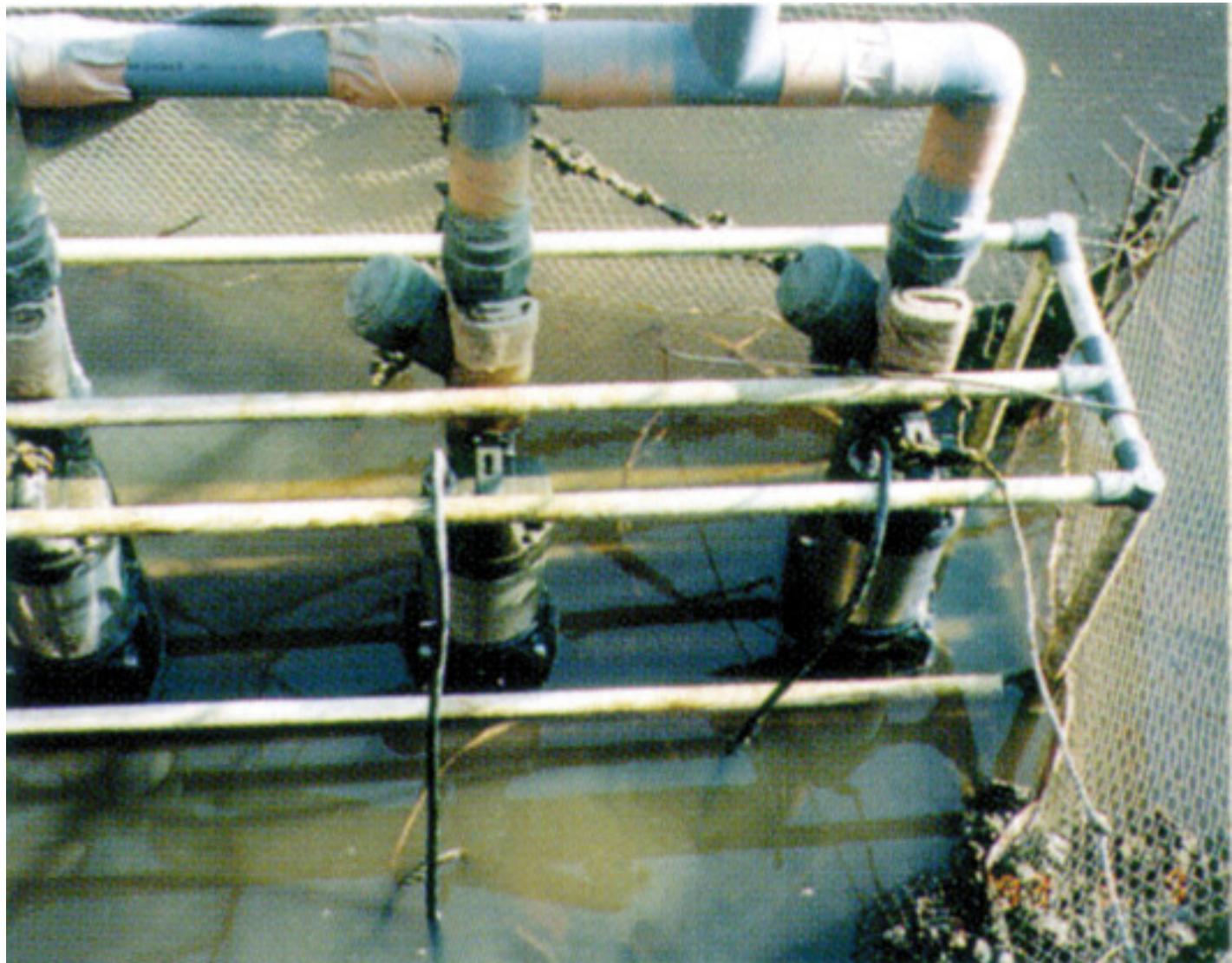
## Resistant to corrosion

All parts in contact with the medium are made of titanium. Titanium has a far stronger oxide film on its surface than stainless steel does. This prevents the pump from being corroded in the seawater which has a very high chlorine ion concentration.



Stainless steel corrodes, titanium doesn't.

## Supplying seawater to a prawn farm

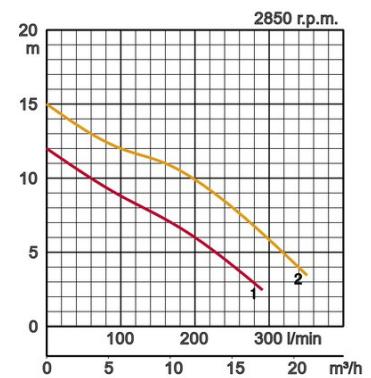


## Specifications:

Model	Colour code curve	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable	Impeller passage mm
50TM2.4S	1	50	0,4	1	2850	12,0	290	condensor	6,7	10
50TMA2.4S		50	0,4	1	2850	12,0	290	condensor	7,2	10
50TM2.75	2	50	0,75	3	2850	15,0	350	direct	7,8	10

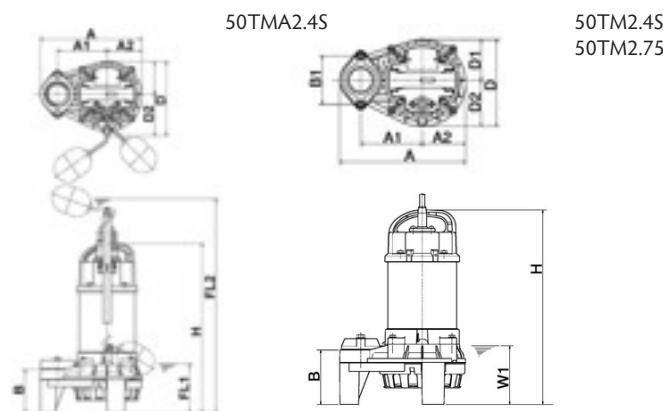


ø Discharge bore mm		50mm		
Pumping Fluid		0-40°C		
Type of Fluid		Saltwater, Seawater		
Pump	Components	Impeller		
		Vortex impeller		
		Shaft Seal		
	Material	Bearings		
		Shielded ball bearings		
		Impeller		
		Glass fibre reinforced plastic		
		Upper casing		
		Glass fibre reinforced plastic		
		Lower casing		
		Glass fibre reinforced plastic		
		Shaft Seal		
Motor	Phase / Voltage			
	Single phase 230V / 50Hz, 3-phase / 400V / 50Hz / d.o.l.			
	Motor Protector (built-in)			
	Circle thermal cut-out			
	Insulation			
	Insulation class E			
	Lubrication			
	Turbine oil (ISO VG15)			
	Type, Poles			
	Material	Induction motor, 2 poles, IP68		
		Casing		
		Titanium		
	Shaft	Shaft		
		Titanium		
	Cable			
	Rubber, 10m H07RN8-F, NSSHÖU			
Discharge Connection				
Inside thread, flange				



## Dimensions in mm:

Model	A	A1	A2	B	B1	D	D1	D2	FL1	FL2	H	W1
50TM2.4S	236	115	81	102	90	162	86	76	-	-	360	110
50TMA2.4S	236	115	81	102	-	173	76	97	115	607	374	-
50TM2.75	236	115	81	102	90	162	86	76	-	-	374	110





**TSURUMI PUMP**

Contributing to World-wide Prosperity and Understanding through Worker- and Environment-friendly Production.

Designed for increased productivity through fully integrated streamlined production systems, Tsurumi's factory in Kyoto (Japan) features a production capacity of a full 1 million pumps per year. Large-scale modern R&D facilities offer optimum conditions for experimenting and testing of even super-large pumps and for developing new products to expand the possibilities and applications of pumps. To provide optimum conditions for our main asset, our workers, as well as for the environment, special emphasis is placed on optimized working conditions with airconditioning, minimized dust and exhaust gas emission, comprehensive recycling and waste recovery.

## Tsurumi (Europe) GmbH

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We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.



sew-TM-EN