



Multi-purpose pump with vortex impeller



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Vortex impeller



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.

Optional Accessories:

- TOK4-P guide rail fitting for small pumps:
- Guide support / Guide hook
- Duck foot bend
- Lifting chain



The idea that pumps must be made through casting is already a thing of the past. PU pumps are the brain child of

Tsurumi 's efforts to get rid of full-cast pumps through material innovation. This has reduced the average weight of

PU pumps to less than half of that of conventional equivalents. Also, installation and maintenance work for these

new pumps have become far easier than ever before.



Resins used to make or house the major components of PU pumps were put through various harsh tests prior to adoption. Consisting of 20 items in all, such tests included those examining resistivity to solutions, continuous operability in high-temperature liquids, and strength to withstand low or freezing temperatures, weathering, and drop impact. In these tests, the resins have proved as strong as, or even stronger than, cast materials in both strength and abrasion resistance. Moreover, these resins are used in such a manner that each may best fit any particular component.

Rust-free

PU pumps are immune to the insanitary rust. Made overall of stainless steel and high-quality resin, these pumps are completely free from the conventional rust troubles.



Easy disassembly for maintenance convenience

For maintenance services, just remove the bolts between the oil casing and the upper pump casing; the pump section with impeller and the motor section are now separated from each other. The pump section can be disassembled and reassembled easily.

Automatic operations (Automatic type)

Plug the pump in and it is ready for automatic operation. PU pumps use a teardrop float for water level detection. This prevents operation errors caused by waves or muck and eliminates chattering.

Various safeguards

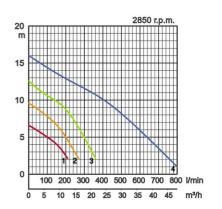
A shaft seal, a limited load mechanism that prevents overloads and ensures stable and safe operation., cable conductors devised to prevent water from leaking in, and many other ideas and devices nutured for years by Tsurumi 's expertise ensure PU pumps the most reliable operations.



Specifications:

	Мо	odel	e curve			out kW			E	ax.	thod		eight kg ut cable	passage
	free standing	with guide rail fitting	Colour code		Boremm	Power output	Phases	r.p.m.	Head max.	Capacity max. I/min	Starting method	free standing	with guide rail fitting	Impeller pa mm
	50PU2.25	optional		1	50	0,25	3	2850	6,6	210	direct	6,1	-	35
	50PU2.4	optional		2	50	0,4	3	2850	9,6	270	direct	7,0	-	35
<u> </u>	50PU2.4S	optional			50	0,4	1	2850	9,6	270	condensor	7,1	-	35
manual	50PU2.75	optional		3	50	0,75	3	2850	12,5	360	direct	8,3	-	35
Ξ	50PU2.75S	optional			50	0,75	1	2850	12,5	360	condensor	8,9	-	35
	80PU21.5	optional		4	80	1,5	3	2850	16,0	800	direct	15,8	-	46
	50PUA2.4	optional			50	0,4	3	2850	9,6	270	direct	7,5	-	35
Ë.	50PUA2.4S	optional			50	0,4	1	2850	9,6	270	condensor	7,7	-	35
autom.	50PUA2.75	optional			50	0,75	3	2850	12,5	360	direct	8,9	-	35
	50PUA2.755	optional			50	0,75	1	2850	12,5	360	condensor	9,5	-	35

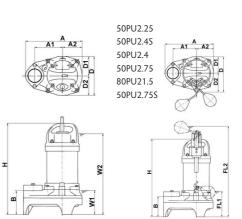
ø Discharge	e bore mm		50mm, 80mm							
Pumping	Temperatu	re	0-40°C Municipal sewage, water with solids							
Fluid	Type of Flu	id								
Pump	Compo-	Impeller	Vortex impeller							
	nents	Shaft Seal	Double mechanical seal							
		Bearings	Shielded ball bearings							
	Material	Impeller	Glass fibre reinforced plastic							
		Upper casing	Glass fibre reinforced plastic							
		Lower casing	Plastic							
		Shaft Seal	Silicon carbide in oil bath							
Motor	Type, Poles	;	Induction motor, 2 poles, IP68							
	Lubrication	ı	Turbine oil (ISO VG32)							
	Insulation		Insulation class E							
	Motor Prot	ector (built-in)	Circle thermal cut-out							
	Phase / Vol	tage	3-phase / 400V / 50Hz / d.o.l., Single phase 230V / 50Hz							
	Material	Casing	Stainless steel EN-X5CrNi18-10							
		Shaft	Stainless steel EN-X5CrNi18-10							
		Cable	Rubber, 10m H07RN-F							
Discharge (Connection		Inside thread, flange							
Optional A	ccessories		Guide rail fitting "TOK" for small pumps							



Dimensions in mm:

Model	Α	A1	A2	В	D	D1	D2	FL1	FL2	Н	W1	W2
50PU2.25	236	115	81	102	162	76	86	-	-	349	110	310
50PU2.4	236	115	81	102	162	76	86	-	-	360	110	325
50PU2.4S	236	115	81	102	162	76	86	-	-	360	110	325
50PU2.75	236	115	81	102	162	76	86	-	-	374	110	335
50PU2.75S	236	115	81	102	162	76	86	-	-	374	110	335
80PU21.5	295	145	99	130	196	92	104	-	-	475	150	427
50PUA2.4	236	115	81	102	173	76	97	115	607	374	-	-
50PUA2.4S	236	115	81	102	173	76	97	115	607	374	-	-
50PUA2.75	236	115	81	102	173	76	97	115	621	388	-	-
50PUA2.75S	236	115	81	102	173	76	97	115	621	388	-	-

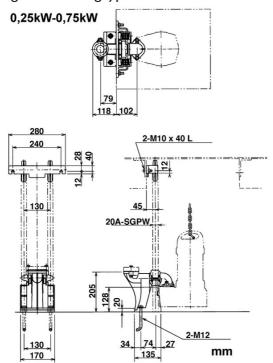
Please mind: discharge bend, duck foot bend and stand set are accessories and must be ordered separately

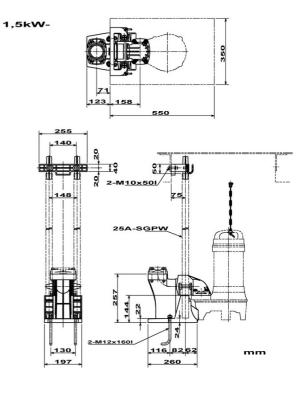


W1: lowest running water level

50PUA2.4S 50PUA2.4 50PUA2.75 50PUA2.75S

Dimensions - guide rail fitting type in mm:





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.

