

# Tsurumi **U**



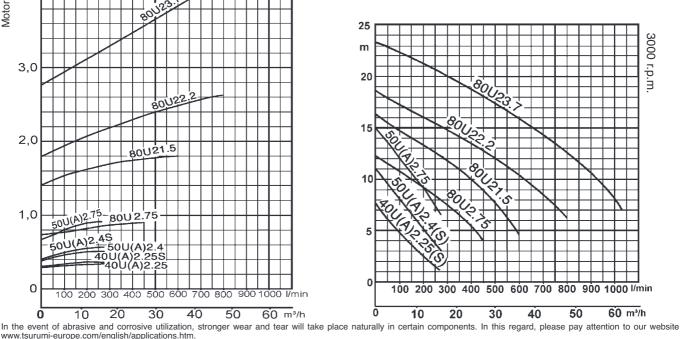
# Sewage Pump with Vortex Impeller - for professional use

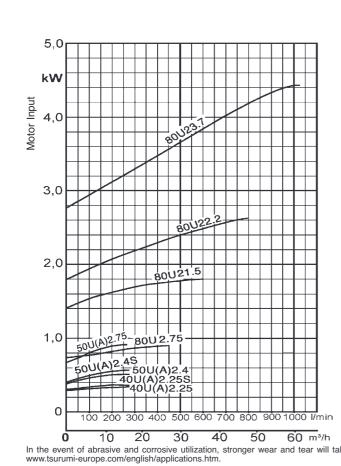


The U pump features a vortex (eddy flow) structure and wide pump casing interior, preventing clogging by waste and solid matter.

The automatic version is available in the range of 0,25kW to 0,75kW.







### **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. Development is enabling Tsurumi to design ever more pump models to this valuable principle.

#### **Standard Accessories:**

- Cable
- Special screwed-in mating flange (1,5kW)
- JIS10K screwed-in mating flange (2,2kW or over and guide rail fitting type)

#### **Optional Accessories:**

- · Guide Rail Fitting consisting of:
  - Guide support
  - Duck foot bend
  - Guide hook
  - Lifting chain
  - Guide connector
- Discharge bend

	Discha	arge bore mm	40	50	80	100	U			
Pumping	Туре	e of Fluid					d liquids carry- olid matters			
Fluid	Liquid 1	Temperature	0 -	40°	С					
	Compo-	Impeller	Vo	rtex						
	nents	Shaft Seal	Do	ouble	e me	chan	ical seal			
	nonto	Bearing	Sh	ield	ed b	all be	earings			
Pump		Impeller	Gr	Ig						
1 ump		Casing	Gr	ey ir	Ig					
	Material									
		Shaft Seal (mechanical Seal)	Sil	icon	car	bide	in oil bath			
	Тур	e, Poles	mo	otor,	IP6	e submersible induction P68 , 3000 r.p.m. (U2)				
	Ins	ulation	Ins	sulat	ion	class	E, F (1,5-3,7kW)			
Motor	Phase	e / Voltage	1-p	oh. 2	230\	/ / 3-p	oh. 400V / 50Hz			
	Motor Protector (built-in) Circle thermal protector						rotector			
	Lu	bricant	Turbine oil (ISO VG32)							
		Frame	Grey iron casting							
	Material	Shaft	Stainless EN-X6Cr13/X30Cr13							
		Cable	Rυ	ıbbe	r, H0	07RN	I-F			
Disc	harge Col	nnection	Sp	ecia	l fla	nge,	JIS10K flange			

## **Specifications:**

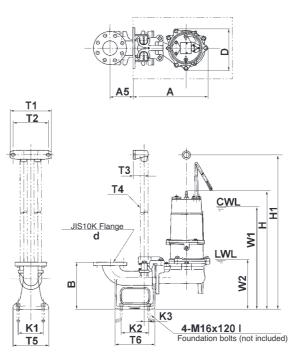
Bore	Model					Capacity		Dry Weight kg		Impeller	Cable
mm			kW		Head	max. I/min	method	standard (	automatic)	passage	m
	free standing	guide rail fitting			max.m			Free standing	TOS-model	dia. mm	
40	40U(A)2.25S	optional	0,25	Single	7,4	264	Split-phase	14,0 (14,5)		35	10
40	40U(A)2.25	optional	0,25	Three	7,5	264	D.O.L.	13,5 (14,5)		35	10
50	50U(A)2.4S	optional	0,4	Single	11,0	270	Condenser	20,0 (20,5)		35	10
50	50U(A)2.4	optional	0,4	Three	11,0	270	D.O.L.	19,2 (19,7)		35	10
50	50U(A)2.75	optional	0,75	Three	15,0	270	D.O.L.	22,7 (23,5)		35	10
80	80U2.75	optional	0,75	Three	12,2	450	D.O.L.	28,5	24,3	46	10
80	80U21.5	optional	1,5	Three	16,5	600	D.O.L.	40	36	46	10
80	80U22.2	optional	2,2	Three	19,0	800	D.O.L.	55	51	56	10
80	80U23.7	optional	3,7	Three	23,5	1030	D.O.L.	75	71	56	10

Dry weight of the pump excluding cable

In the event of abrasive and corrosive utilization, stronger wear and tear will take place naturally in certain components. In this regard, please pay attention to our website www.tsurumi-europe.com/english/applications.htm.

## **Dimensions TOS-Models:**

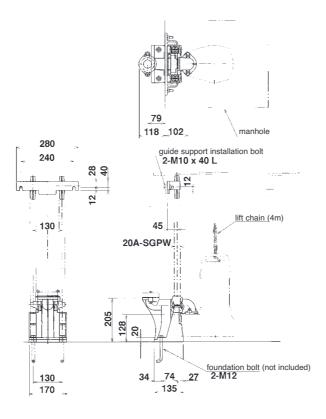
Unit: mm



CWL: continuous running water level LWL: lowest running running water level

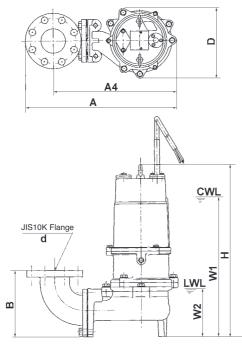
Model	discharge bore	Pump Section				Wate	Water level Guide Rail Fitting Section					Foundation						
	d	Α	A5	D	Н	H1	W1	W2	T1	T2	Т3	T4	T5	T6	В	K1	K2	K3
TOS80U2.75	80	347	130	172	523	710	490	230	230	195	60	32A	190	220	270	140	140	15
TOS80U21.5	80	389	130	200	603		530	240	230	195	60	32A	190	220	270	140	140	15
TOS80U22.2	80	418	130	240	647		575	245	230	195	60	32A	190	220	270	140	140	15
TOS80U23.7	80	418	130	235	650	895	610	245	230	195	60	32A	190	220	270	140	140	15

Use **TOK3** guide rail fitting for other types:

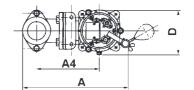


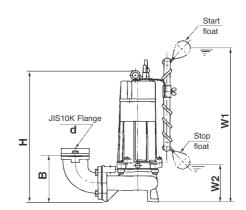
#### **Dimensions free standing types:**

#### Unit mm



CWL: continuous running water level LWL: lowest running running water level





Model	discharge bore	A	A4	D	В	Н	Operating \	Nater Level
	d						W1	W2
40U2.25S	40	241	207	172	107	383	340	100
40UA2.25S	40	241	207	194	107	433	585	100
40U2.25	40	241	207	172	107	383	340	100
40UA2.25	40	241	207	194	107	433	585	100
50U2.4S	50	236	199	158	102	433	390	105
50UA2.4S	50	236	199	187	102	450	590	105
50U2.4	50	236	199	158	102	400	355	105
50UA2.4	50	236	199	187	102	450	590	105
50U2.75	50	249	212	172	102	395	365	105
50UA2.75	50	283	246	172	102	475	590	105
80U2.75	80	383	329	172	173	421	390	130
80U21.5	80	420	366	200	173	501	430	135
80U22.2	80	502	410	240	225	562	490	160
80U23.7	80	502	410	234	226	565	520	160

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 end-user 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.

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