



TSURUMI PUMP

100UPZ 3-phase
50Hz

UPZ-series 100mm discharge,
wet-well and dry-well installation, hydraulically
highly efficient channel impeller and IE3 premium
efficiency motor, moisture sensor

Sewage pump equipped with a vortex-impeller
and a wide pump-casing. This construction
prevents clogging by big or fibrous
impurifications. The pumps are as a standard
equipped with a moisture sensor and a cooling
jacket and thus can constructively be installed
dry- and wet-well mounted. Option for
explosion-proof version available.





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:

- duck-foot for guide rails:
 - guide support
 - duck foot
- Bend
- Stand set for free-standing version



Available options



- Explosion proof version
- Oil sensor
- Motor versions up to 2.9 kW in d.o.l., 3.7kW-motor either in d.o.l.- or star-delta-start, from 5 kW on only start-delta-start
- All pumps can be operated with soft-starter and frequency-converter



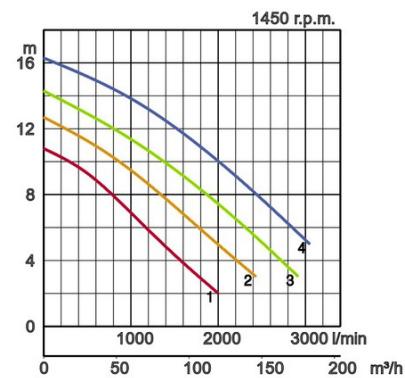
Specifications:

Model	free standing	with guide rail fitting	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
											free standing	with guide rail fitting	
100UPZM43.7 TOS100UPZM43.7	1	100	3,7	3	1450	10,8	2000	star/delta	123,0	123,7	100	100	
100UPZM45.0 TOS100UPZM45.0	2	100	5,0	3	1450	12,7	2433	star/delta	126,0	126,0	100	100	
100UPZM46.5 TOS100UPZM46.5	3	100	6,5	3	1450	14,3	2917	star/delta	144,0	144,0	100	100	
100UPZM48.5 TOS100UPZM48.5	4	100	8,5	3	1450	16,3	3050	star/delta	144,0	144,0	100	100	

3.7 kW version available in d.o.l. or star-delta

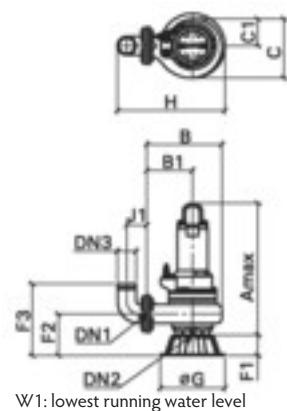
o Discharge bore mm

Pumping Fluid	Temperature		0-40°C	
Type of Fluid		Municipal sewage		
Pump	Components	Impeller	Vortex impeller	
		Shaft Seal	Double mechanical seal	
		Bearings	Shielded ball bearings	
	Material	Impeller	Grey iron casting EN-GJL-250	
		Casing	Grey iron casting EN-GJL-250	
		Shaft Seal	SiC, upper in oil bath	
		Wearing	Bronze	
Motor	Type, Poles			
	Phase / Voltage			
	Insulation			
	Motor Protector (built-in)			
	Lubrication			
	Material	Casing	Grey iron casting EN-GJL-250	
		Shaft	Stainless steel EN-X14Cr-Mo-S17	
		Cable	Rubber, 10m H07RN8-F	
Discharge Connection				
Optional Accessories				



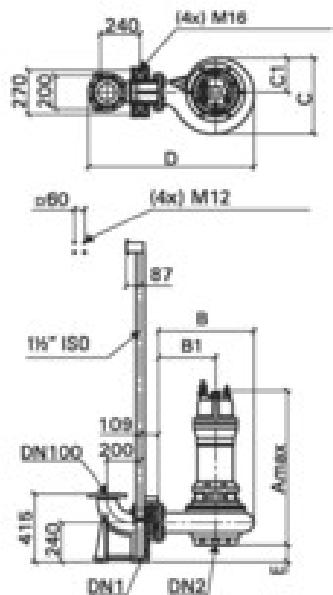
Dimensions in mm:

Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
100UPZM43.7	751	410	250	310	155	100	100	4"	125	225	410	395	627	122
100UPZM45.0	751	460	280	336	168	100	100	4"	125	225	410	395	657	122
100UPZM46.5	821	460	280	336	168	100	100	4"	125	225	460	395	657	122
100UPZM48.5	821	460	280	336	168	100	100	4"	125	225	410	395	657	122



Dimensions - guide rail fitting type in mm:

Model	A	B	B1	C	C1	D	DN1	DN2	E
100UPZM43.7	751	410	250	310	155	834	100	100	140
100UPZM45.0	751	460	280	336	168	884	100	100	140
100UPZM46.5	821	460	280	336	168	884	100	100	140
100UPZM48.5	821	460	280	336	168	884	100	100	140



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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.

