



**TSURUMI PUMP**

## 100UP 3-phase 50Hz

UP-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 impurities. 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

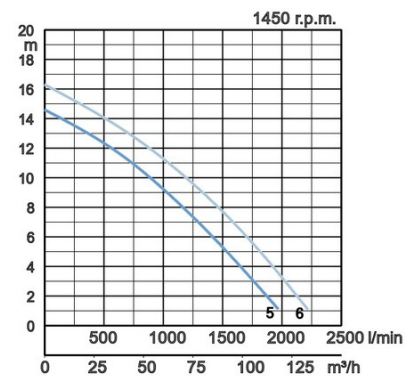
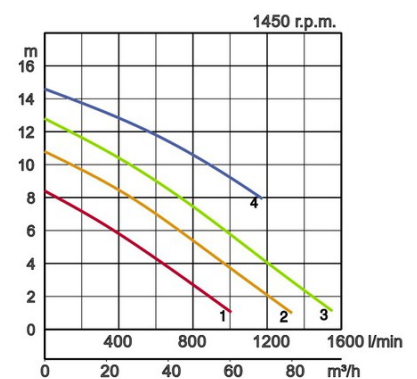


## Specifications:

Model		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										free standing	with guide rail fitting	
100UPM42.9LLTOS100UPM42.9L		1		100	2,9	3	1450	8,4	1005	direct	123,0	123,0	80
100UPM42.9L	TOS100UPM42.9L	2		100	2,9	3	1450	10,8	1333	direct	124,0	124,0	80
100UPM42.9	TOS100UPM42.9	3		100	2,9	3	1450	12,8	1550	direct	124,0	124,0	80
100UPM43.7HTOS100UPM43.7H		4		100	3,7	3	1450	14,6	1173	star/delta	124,0	124,0	80
100UPM45.0	TOS100UPM45.0	5		100	5,0	3	1450	14,6	1967	star/delta	124,0	124,0	80
100UPM46.5	TOS100UPM46.5	6		100	6,5	3	1450	16,3	2217	star/delta	141,0	141,0	80

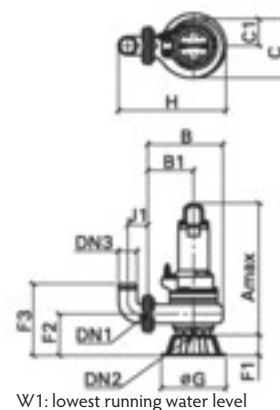
3.7 kW version available in d.o.l. or star-delta

ø Discharge bore mm			100mm
Pumping Fluid	Type of Fluid		Municipal sewage
	Temperature		0-40°C
Pump	Compo-nents	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		Induction motor, 4 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.
	Motor Protector (built-in)		Miniature protector
	Insulation		Insulation class H
	Material	Casing	Grey iron casting EN-GJL-250
		Shaft	Stainless steel EN-X14Cr-Mo-S17
		Cable	Rubber, 10m H07RN8-F
Discharge Connection			Flange DIN/ANSI DN100 (PN10)
Optional Accessories			Guide rail fitting "TOS" (guide support, duck foot bend, lifting chain) / Bend and stand set for free standing types



## Dimensions in mm:

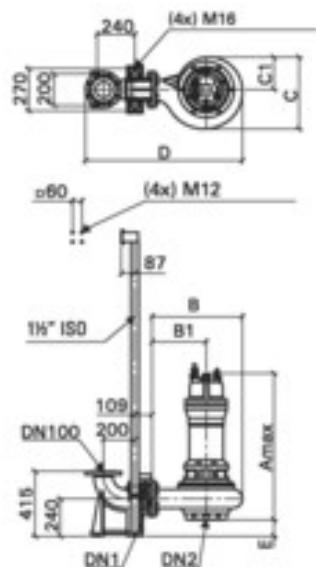
Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
100UPM42.9LL 722	395	240	310	155	100	100	100	4"	125	213	398	395	617	122
100UPM42.9L 722	438	280	316	158	100	100	100	4"	125	213	398	395	657	122
100UPM42.9 722	438	280	316	158	100	100	100	4"	125	213	398	395	657	122
100UPM43.7H 722	438	280	316	158	100	100	100	4"	125	213	398	395	657	122
100UPM45.0 722	438	280	316	158	100	100	100	4"	125	213	398	395	657	122
100UPM46.5 792	438	280	316	158	100	100	100	4"	125	213	398	395	657	122





**Dimensions - guide rail fitting type in mm:**

Model	A	B	B1	C	C1	D	DN1	DN2	E
100UPM42.9LL	722	395	240	310	155	819	100	100	152
100UPM42.9L	722	438	280	316	158	862	100	100	152
100UPM42.9	722	438	280	316	158	862	100	100	152
100UPM43.7H	722	438	280	316	158	862	100	100	152
100UPM45.0	722	438	280	316	158	862	100	100	152
100UPM46.5	792	438	280	316	158	862	100	100	152



W1: lowest running water level

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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 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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