



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
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	
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		
100UPM43.7H TOS100UPM43.7H	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

o Discharge bore mm			100mm	
Pumping Fluid			Municipal sewage	
Temperature			0-40°C	
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			
	Lubrication			
	Phase / Voltage			
	Motor Protector (built-in)			
	Insulation			
	Material	Casing	Grey iron casting EN-GJL-250	
		Shaft	Stainless steel EN-X14Cr-Mo-S17	
		Cable	Rubber, 10m H07RN8-F	
Discharge Connection				
Optional Accessories				

100mm

Municipal sewage

0-40°C

Vortex impeller

Double mechanical seal

Shielded ball bearings

Grey iron casting EN-GJL-250

Grey iron casting EN-GJL-250

SiC, upper in oil bath

Bronze

Induction motor, 4 poles, IP68

Turbine oil (ISO VG32)

3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.

Miniature protector

Insulation class H

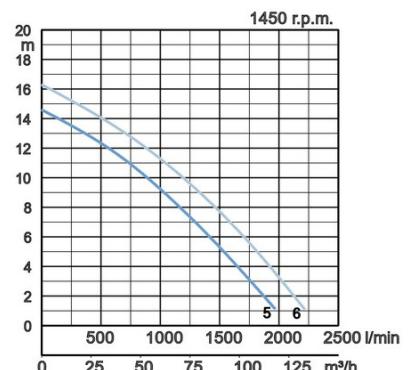
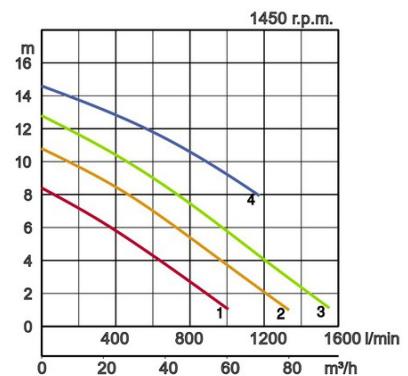
Grey iron casting EN-GJL-250

Stainless steel EN-X14Cr-Mo-S17

Rubber, 10m H07RN8-F

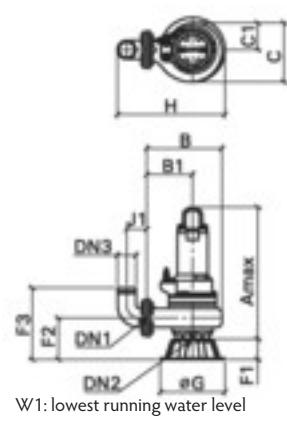
Flange DIN/ANSI DN100 (PN10)

Guide rail fitting "TOS" (guide support, duck foot bend, lifting chain) / Bend and stand set for free standing types



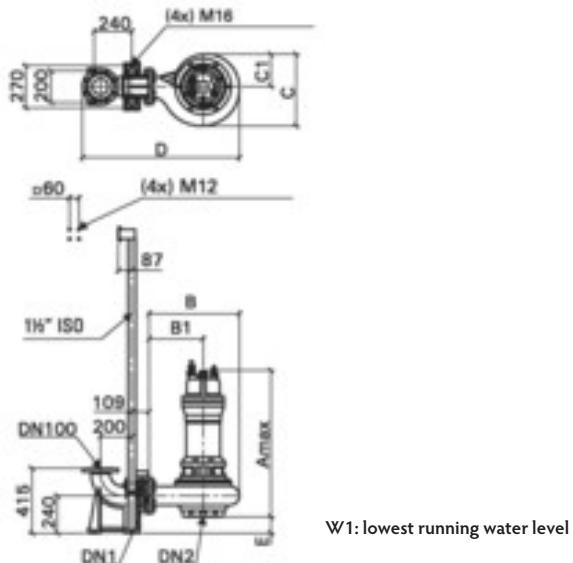
Dimensions in mm:

Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
100UPM42.9LLT22	395	240	310	155	100	100	4"	125	213	398	395	617	122	
100UPM42.9L T22	438	280	316	158	100	100	4"	125	213	398	395	657	122	
100UPM42.9 T22	438	280	316	158	100	100	4"	125	213	398	395	657	122	
100UPM43.7H T22	438	280	316	158	100	100	4"	125	213	398	395	657	122	
100UPM45.0 T22	438	280	316	158	100	100	4"	125	213	398	395	657	122	
100UPM46.5 T22	792	438	280	316	158	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



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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.

