



TSURUMI PUMP

100UY 3-phase
50Hz

UY-series 100mm discharge, wet installation
Sewagepump with Vortex-impeller

The UY-series is equipped with a vortex-impeller and a wide pump-casing. This construction prevents clogging by big or fibrous impurities.





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

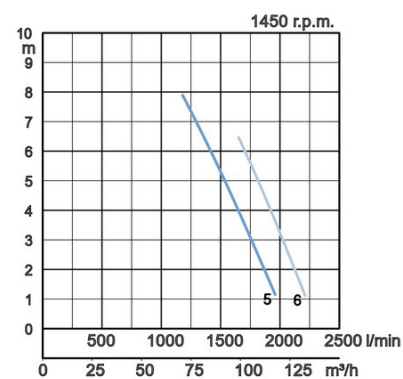
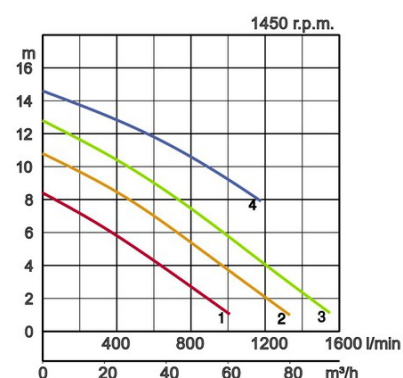


Specifications:

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	
100UY41.3	TOS100UY41.3	1		100	1,3	3	1450	8,4	1000	direct	83,7	66,2	80
100UY42.6L	TOS100UY42.6L	2		100	2,6	3	1450	10,8	1330	direct	90,7	73,2	80
100UY42.6	TOS100UY42.6	3		100	2,6	3	1450	12,8	1548	direct	90,8	73,3	80
100UY43.7H	TOS100UY43.7H	4		100	3,7	3	1450	14,6	1170	star/delta	128,1	110,7	80
100UY45.0	TOS100UY45.0	5		100	5,0	3	1450	7,9	1962	star/delta	131,7	114,3	80
100UY46.5	TOS100UY46.5	6		100	6,5	3	1450	6,5	2214	star/delta	134,5	117,1	80

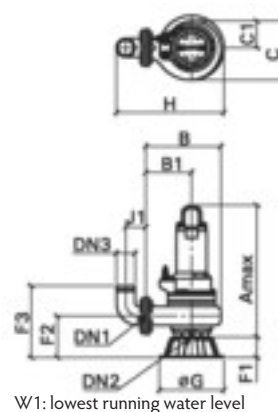
3.7 kW version available in d.o.l. or star-delta

ø Discharge bore mm			100mm
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		Induction motor, 4 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Phase / Voltage		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-X5CrNiMo17-12-2
		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:

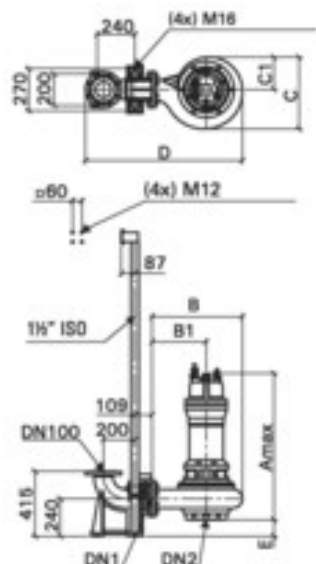
Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
100UY41.3	526	385	240	290	145	100	100	4"	125	213	398	395	617	122
100UY42.6L	563	438	280	316	158	100	100	4"	125	213	395	395	657	122
100UY42.6	563	438	280	316	158	100	100	4"	125	213	398	395	657	122
100UY43.7H	774	438	280	316	158	100	100	4"	125	213	398	395	657	122
100UY45.0	774	438	280	316	158	100	100	4"	125	213	398	395	657	122
100UY46.5	774	438	280	316	158	100	100	4"	125	213	398	395	657	122



W1: lowest running water level

Dimensions - guide rail fitting type in mm:

Model	A	B	B1	C	C1	D	DN1	DN2	E
100UY41.3	526	385	240	290	145	799	100	100	152
100UY42.6L	563	438	280	316	158	862	100	100	152
100UY42.6	563	438	280	316	158	862	100	100	152
100UY43.7H	774	438	280	316	158	862	100	100	152
100UY45.0	774	438	280	316	158	862	100	100	152
100UY46.5	774	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.

sew-UY_100mm-EN

