



100UYZ ^{3-phase} 50Hz

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

The UYZ-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

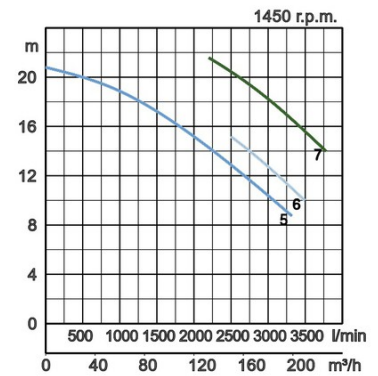
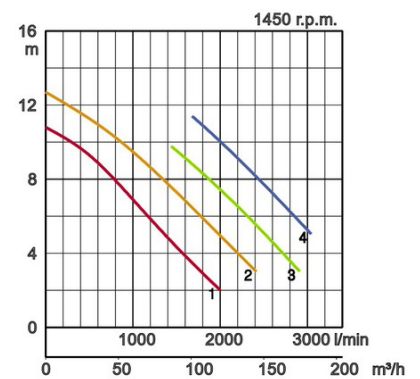


Specifications:

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	
100UYZ43.2	TOS100UYZ43.2	1	100	3,2	3	1450	10,8	2000	star/delta	97,9	80,5	100
100UYZ45.0	TOS100UYZ45.0	2	100	5,0	3	1450	12,7	2400	star/delta	134,3	116,9	100
100UYZ46.5	TOS100UYZ46.5	3	100	6,5	3	1450	9,5	2900	star/delta	136,9	119,5	100
100UYZ412.2	TOS100UYZ412.2	4	100	12,2	3	1450	20,8	3300	star/delta	215,5	196,8	100
100UYZ414.6	TOS100UYZ414.6	5	100	14,6	3	1450	15,3	3490	star/delta	216,4	197,7	100
100UYZ419.3	TOS100UYZ419.3	6	100	19,3	3	1450	21,5	3780	star/delta	239,8	221,1	100

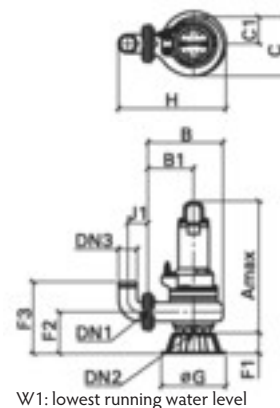
3.7 kW version available in d.o.l. or star-delta

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	Insulation		Insulation class H
	Phase / Voltage		3-phase / 400V / 50Hz / s.d.
	Motor Protector (built-in)		Miniature protector
	Type, Poles		Induction motor, 4 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	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	



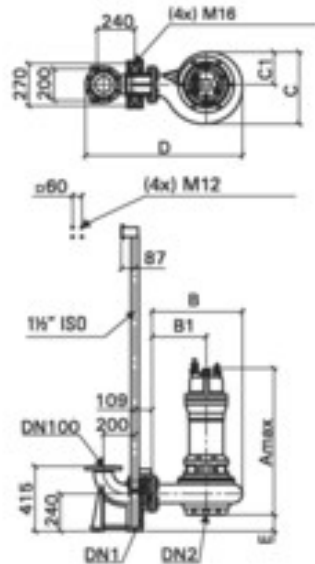
Dimensions in mm:

Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
100UYZ43.2	630	410	250	296	148	100	100	4"	125	225	410	395	626	122
100UYZ45.0	630	410	250	296	148	100	100	4"	125	225	410	395	626	122
100UYZ46.5	804	460	280	336	168	100	100	4"	125	225	410	395	657	122
100UYZ412.2	994	576	345	457	207	100	150	4"	125	260	445	450	755	122
100UYZ414.6	1098	555	345	410	205	100	150	4"	125	235	420	450	749	122
100UYZ419.3	1098	555	345	410	205	100	150	4"	125	235	420	450	749	122



Dimensions - guide rail fitting type in mm:

Model	A	B	B1	C	C1	D	DN1	DN2	E
100UYZ43.2	630	410	250	296	148	834	100	100	140
100UYZ45.0	804	460	280	336	168	1029	100	100	175
100UYZ46.5	804	460	280	336	168	1029	100	100	175
100UYZ412.2	994	576	345	457	207	1000	100	150	105
100UYZ414.6	1098	555	345	410	205	979	100	150	130
100UYZ419.3	1098	555	345	410	205	979	100	150	130



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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.

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