TSURUMI PUMP
STRONGER FOR LONGER

100UYZK 3-phase 50Hz

UYZK-series 100mm discharge, dry installation
Sewagepump with Vortex-impeller

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

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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

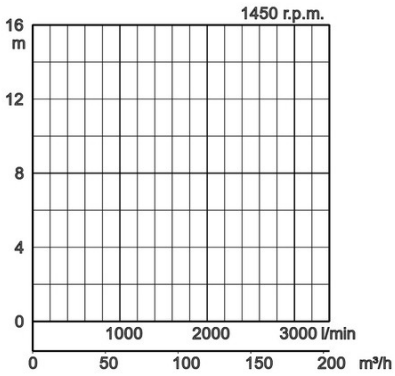
- Explosion proof version
- Oil sensor
- Motor versions up to 2.9 kW in d.o.l.,
  3.7kW-motor either in d.o.l.- or star-delta-start,
  from 5 kW on only start-delta-start
- All pumps can be operated with soft-starter and frequency-converter

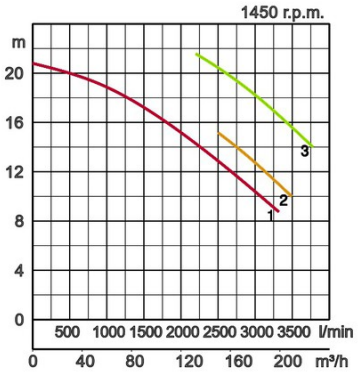
Specifications:

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
100UYZMK412.2	1	100	12,2	3	1450	20,8	3300	star/delta	290,4	100
100UYZMK414.6	2	100	14,6	3	1450	15,3	3490	star/delta	291,3	100
100UYZMK419.3	3	100	19,3	3	1450	7,0	2214	star/delta	318,0	100

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

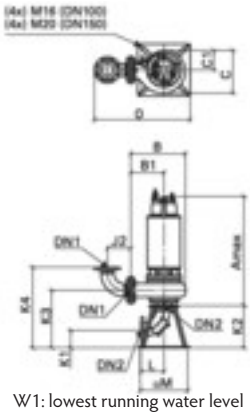
ø Discharge bore mm			100mm
Pumping Fluid	Temperature		0-35°C
	Type of Fluid		Municipal sewage
Pump	Compo-nents	Impeller	Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Grey iron casting EN-GJL-250
		Casing	Grey iron casting EN-GJL-250
		Shaft Seal	SiC, upper in oil bath
		Wearring	Bronze
Motor	Phase / Voltage		3-phase / 400V / 50Hz / s.d.
	Insulation		Insulation class H
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Miniature protector
	Type, Poles		Induction motor, 4 poles, IP68
	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			Horizontal installation / Vertical installation





Dimensions - vertical installation mm::

Model	A	B	B1	C	C1	DN1	DN2	J2	K1	K2	K3	K4	L	M	O
100UYZMK412.2	994	576	345	457	207	100	150	197	205	500	637	832	197	520	942
100UYZMK414.6	1098	555	345	410	205	100	150	197	205	502	612	806	197	520	941
100UYZMK419.3	1098	555	345	410	205	100	150	197	205	502	612	806	197	520	941



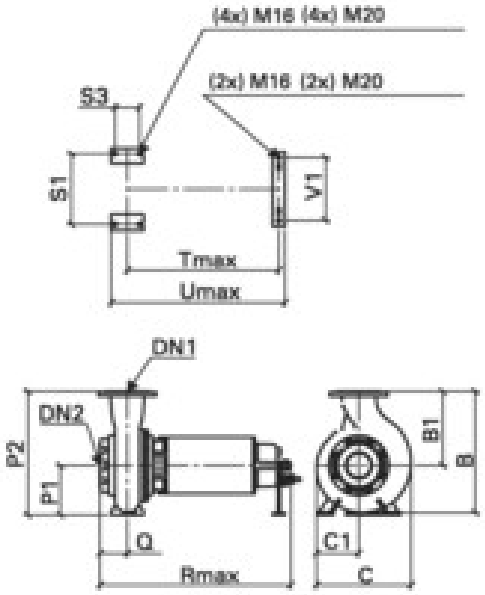
W1: lowest running water level

Please mind: discharge bend, duck foot bend and stand set are accessories and must be ordered separately

Dimensions - horizontal installation mm::

Model	B	B1	C	C1	DN1	DN2	P1	P2	Q	R	S1	S3	T	U	V1
100UYZMK412.2	576	345	457	207	100	150	250	595	135	1006	350	120	842	952	310
100UYZMK414.6	555	345	410	205	100	150	230	575	110	1110	380	115	941	1046	310
100UYZMK419.3	555	345	410	205	100	150	230	575	110	1110	380	115	941	1046	310

Horizontal installation



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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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