



**80UYZ** 3-phase  
50Hz

UYZ-series 80mm 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

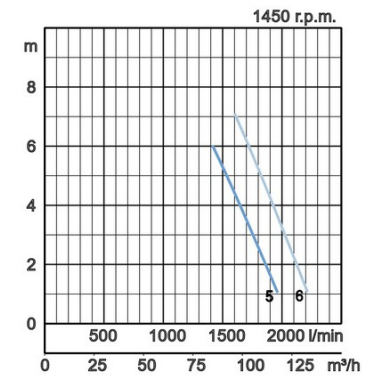
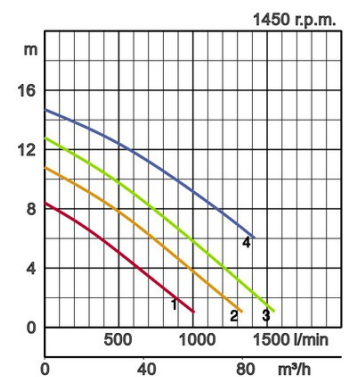


## Specifications:

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	
80UYZ41.3	TOS80UYZ41.3	1	80	1,3	3	1450	8,4	1000	direct	78,0	62,7	80
80UYZ42.6L	TOS80UYZ42.6L	2	80	2,6	3	1450	10,8	1330	direct	86,2	70,9	80
80UYZ42.6	TOS80UYZ42.6	3	80	2,6	3	1450	12,8	1548	direct	86,3	71,0	80
80UYZ43.7H	TOS80UYZ43.7H	4	80	3,7	3	1450	14,7	1415	star/delta	123,7	108,4	80
80UYZ45.0	TOS80UYZ45.0	5	80	5,0	3	1450	6,0	1962	star/delta	127,2	112,0	80
80UYZ46.5	TOS80UYZ46.5	6	80	6,5	3	1450	7,0	2214	star/delta	130,1	114,8	80

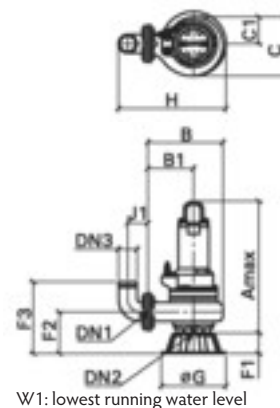
3.7 kW version available in d.o.l. or star-delta

ø Discharge bore mm		80mm	
Pumping Fluid	Temperature	0-35°C, 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	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.
	Motor Protector (built-in)		Miniature protector
	Type, Poles		Induction motor, 4 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	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 DN80 (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:

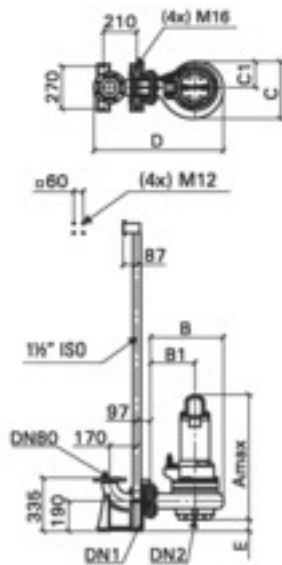
Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
80UYZ41.3	526	365	220	290	145	80	100	3"	125	203	301	395	589	137
80UYZ42.6L	563	408	250	316	158	80	100	3"	125	203	301	395	628	137
80UYZ42.6	563	408	250	316	158	80	100	3"	125	203	301	395	628	137
80UYZ43.7H	767	408	250	316	158	80	100	3"	125	203	301	395	628	137
80UYZ45.0	767	408	250	316	158	80	100	3"	125	203	301	395	628	137
80UYZ46.5	767	408	250	316	158	80	100	3"	125	203	301	395	628	137





## Dimensions - guide rail fitting type in mm:

Model	A	B	B1	C	C1	D	DN1	DN2	E
80UYZ41.3	526	365	220	290	145	722	80	100	112
80UYZ42.6L	563	408	250	316	158	775	80	100	112
80UYZ42.6	563	408	250	316	158	775	80	100	112
80UYZ43.7H	767	408	250	316	158	775	80	100	112
80UYZ45.0	767	408	250	316	158	775	80	100	112
80UYZ46.5	767	408	250	316	158	775	80	100	112



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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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