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Pump selection Apps are available on
Android and iPhone: “Tsurumi Pump Selector”

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TSURUMI PUMP
STRONGER FOR LONGER

Product Guide
Sewage-Transport

Tsurumi Manufacturing Co., Ltd.

Tsurumi Manufacturing Company, Limited was founded in Osaka in 1924. Since the foundation, Tsurumi has consistently devoted its efforts to the creation and development of advanced water utilization technologies. Tsurumi has also innovated the pump manufacturing technologies in a constant pursuit of new opportunities and new fields that contribute to the advancement of our society and environment. This effort epitomizes its management policy “Dedicated to pursuing close communication between people and water through innovative creation and respect for harmony with nature.”

Production Bases

Kyoto Plant production facility boasts industry-leading scale and equipment, including extensive testing and research facilities. Its integrated system encompasses all product stages from development to production and is capable of manufacturing small, large, and special-purpose pumps having the capacity of 1,000,000 unit a year.

Yonago Plant in Tottori Prefecture specializes in development and production of large pumps for pumping stations and liquid-ring vacuum pumps. Tsurumi also operates cutting-edge plants in Taiwan, China and Korea that are capable of mass-producing products with short lead times. All plants work together to form a highly efficient production system.

Global Operations

Tsurumi introduced its overseas strategy in the 1960s. Our technical capabilities gained recognition first Asia in the 1970s and then in the United States and Europe in the 1980s. Following these initial successes, we sought to accelerate the overseas strategy through our International Sales Division. Remarkable successes in fields including construction, civil engineering, mining, power plant, industrial wastewater, domestic wastewater, sewage treatment, flood control, facilities designed to bring people into closer contact with water, and scenery creation have proven Tsurumi’ s creativity and capability to the world.

Overseas Subsidiaries

EUROPE
Tsurumi (Europe) GmbH

France
Tsurumi FRANCE

Spain
Tsurumi ESPANA

Belgium
Tsurumi BELGIUM

United Kingdom
Tsurumi UK

Sweden
Tsurumi-Intec Pumps

U.S.A.
Tsurumi (America), Inc.

U.A.E.
Tsurumi Pump Middle East FZEO

South Africa
Tsurumi Pumps Africa

Thailand
Tsurumi Pump (Thailand) Co., Ltd.

Singapore
Tsurumi (Singapore) Pte. Ltd.

Malaysia
Tsurumi Pump (M) Sdn. Bhd.

Indonesia
Pt. Tsurumi Pompa Indonesia

Hong Kong
H&E Tsurumi Pump Co., Ltd.

China
Shanghai Tsurumi Pump Co., Ltd.

Taiwan
Tsurumi Pump Taiwan Co., Ltd.

Korea
Tsurumi Pump Korea Co., Ltd.

Vietnam
Tsurumi Pump Vietnam Co., Ltd.

Australia
Tsurumi Australia Pty Ltd.

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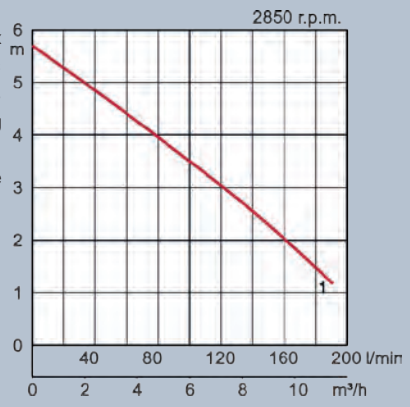
Residue | Portable | Automatic

POMA

The POMA-series is a submersible vortex pump with a light fibre reinforced plastic casing and head cover. The pump is abrasion and corrosion resistant, minimizing maintenance.
The pump is equipped with the float for the automatic operation.

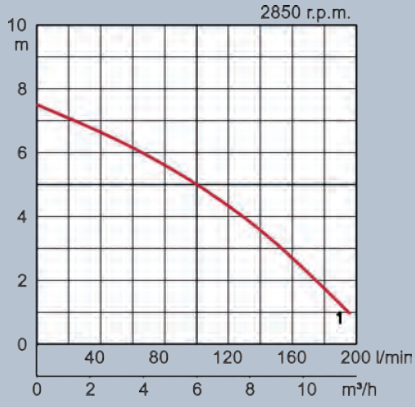


TECHNICAL DATA		● POMA
Discharge Bore	mm	50
Motor Output	kW	0.15
Phase		Single
Starting Method		Capacitor Run
Motor Protection		Circle thermal
Impeller		Vortex / Glass fibre reinforced plastic
Impeller Passage	mm	35
Voltage	V	230
Current	A	1.6
Weight	kg	6.6
Cable Length	m	10
L x W x H	mm	225 x 197 x 354

Residue | Portable | Automatic*

OM

The OM-series is the most compact pump in the VANCS-series. It is a semi-vortex design and can handle liquids containing moderate size of solids. Since the pump is made of special resin and stainless steel, it is corrosion-resistant and lightweight.
Option for the automatic operation (OMA) is available.



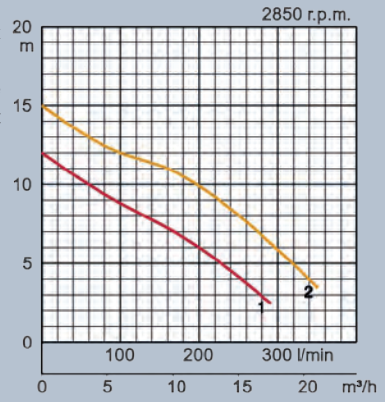
OM

OMA

TECHNICAL DATA		● OM	● OMA
Discharge Bore	mm	32	
Motor Output	kW	0.15	
Phase		Single	
Starting Method		Capacitor Run	
Motor Protection		Circle thermal	
Impeller		Vortex / Glass fibre reinforced plastic	
Impeller Passage	mm	10	
Voltage	V	230	
Current	A	1.6	
Weight	kg	5.9	6.1
Cable Length	m	10	
L x W x H	mm	203 x 140 x 316	203 x 177 x 320

PNI

The PNI-series is a submersible semi-vortex pump designed for handling wastewater and liquid carrying small solid matters. It is made of resin and 304 stainless steel and excellent in corrosion-resistance. The semi-vortex pump design with moderate solids passage provides efficient performance for versatile applications. Liquid paraffin is used for the lubricating oil, which widens the application of the pump to decorative waterfalls, fishponds, aquaculture etc.

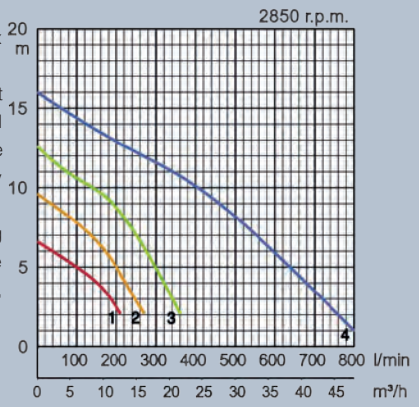


PNI PNI(AUTO)

TECHNICAL DATA		● 50PNI2.4S 50PNI2.4S(AUTO)	● 50PNI2.75S 50PNI2.75S(AUTO)
Discharge Bore	mm	50	
Motor Output	kW	0.4	0.75
Phase		Single	
Starting Method		Capacitor Run	
Motor Protection		Circle thermal	
Impeller		Vortex / Glass fibre reinforced plastic	
Impeller Passage	mm	10	
Voltage	V	230	
Current	A	2.8	5.2
Weight	kg	7.2 7.4 (AUTO)	9.3 9.5(AUTO)
Cable Length	m	10	
L x W x H	mm	241 x 162 x 360 241 x 246 x 365 (AUTO)	241 x 162 x 380 241 x 246 x 385 (AUTO)

PU(A)

The PU-series is a submersible vortex pump designed for raw sewage, waste-water, and liquid carrying solid matters. It is made of resin and 304 stainless steel and excellent in corrosion-resistance. The vortex mechanism provides practically unchokable operation in sewage pumping. Liquid paraffin is used for the lubricating oil, which widens the application of the pump to decrative waterfalls, fishponds, aquaculture, etc.



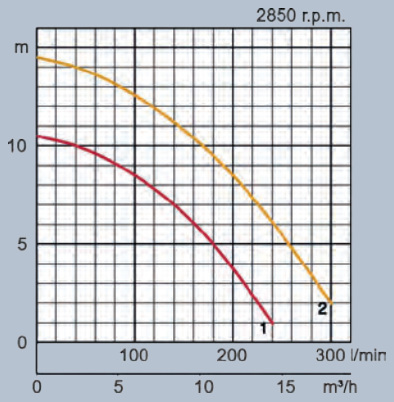
PU

PUA

TECHNICAL DATA		● 50PU2.25	● 50PU2.4(S) 50PUA2.4(S)	● 50PU2.75(S) 50PUA2.75(S)	● 80PU21.5
Discharge Bore	mm	50			80
Motor Output	kW	0.25	0.4	0.75	1.5
Phase		Three	Single / Three		Three
Starting Method		D.O.L.	Capacitor Run / D.O.L.		D.O.L.
Motor Protection		Circle thermal			
Impeller		Vortex / Glass fibre reinforced plastic			
Impeller Passage	mm	35			46
Voltage	V	400	230 / 400		400
Current	A	0.85	3.1 / 1.15	5.5 / 1.9	4
Weight	kg	6.1	7 / 7.1 7.5 / 7.7	8.3 / 8.9 8.9 / 9.5	15.8
Cable Length	m	10			
L x W x H	mm	236 x 162 x 349	236 x 162 x 325 236 x 173 x 374	236 x 162 x 335 236 x 173 x 388	236 x 162 x 349

SQ

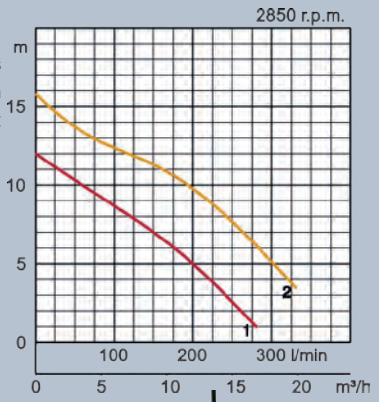
The SQ-series is a submersible stainless steel drainage pump designed for handling screened wastewater or clean water. It is constructed from cast and fabricated stainless steel. The top discharge, flow-thru design always cools the motor with the pumped media and allows the pump to operate at low water levels for extended periods. Liquid paraffin is used for the lubricating oil, which enables the application of the SQ-series to the food or aquaculture industry.



TECHNICAL DATA		● 50SQ2.4 50SQ2.4S	● 50SQ-2.75
Discharge Bore	mm	50	
Motor Output	kW	0.4	0.75
Phase		Three Single	Three
Starting Method		D.O.L. Capacitor Run	D.O.L.
Motor Protection		Circle thermal	
Impeller		Vortex / SCS13 (DIN GX5CrNi19-10)	
Impeller Passage	mm	6	
Voltage	V	400 230	400
Current	A	1.1 3.5	1.8
Weight	kg	12 12.5	14
Cable Length	m	10	
L x W x H	mm	180 x 180 x 364	180 x 180 x 384

TM(A)

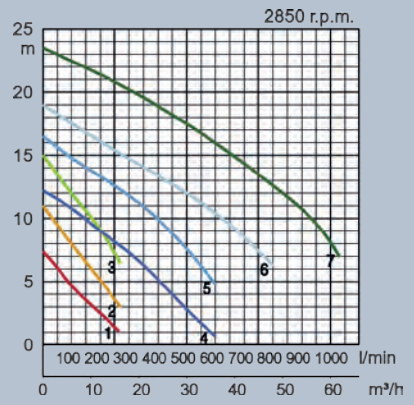
The TM-series is a submersible titanium pump designed for handling seawater. It is made of resin and titanium. Since titanium has a superb corrosion resistance against seawater, it is suitable for various applications where seawater is used. Liquid paraffin is used for the lubricating oil, which makes it ideal for saltwater aquaculture.



TECHNICAL DATA		● 50TM2.4S 50TMA2.4S	● 50TM2.75
Discharge Bore	mm	50	
Motor Output	kW	0.4	0.75
Phase		Single	Three
Starting Method		Capacitor Run	D.O.L.
Motor Protection		Circle thermal	
Impeller		Vortex / Glass fiber reinforced plastic	
Impeller Passage	mm	10	
Voltage	V	230	400
Current	A	3.1	1.9
Weight	kg	6.7	7.8
Cable Length	m	10	
L x W x H	mm	236 x 162 x 360	236 x 162 x 374

U

The U-series is a 2-pole-motor-based, compact type submersible vortex pump designed for handling raw sewage, wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum contact to the impeller. Since this mechanism does not require the foreign matters to pass through the impeller vane, the pump offers practically unchokable pumping.

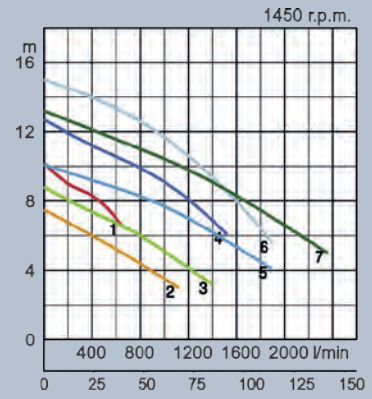


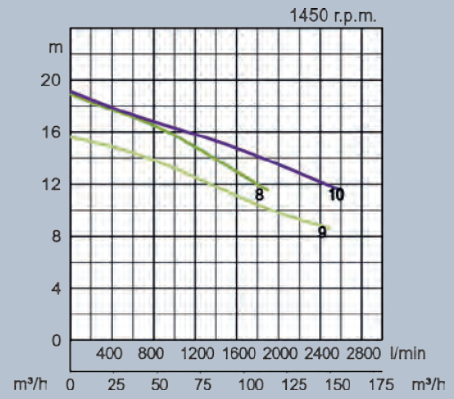
TECHNICAL DATA		● 40UA2.25	● 50UA2.4	● 50UA2.75
Discharge Bore	mm	40	50	
Motor Output	kW	0.25	0.4	0.75
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle thermal		
Impeller		Vortex / Grey Iron Casting (EN-GJL-200)		
Impeller Passage	mm	35		
Voltage	V	400		
Current	A	0.7	1.1	2.1
Weight	kg	14.5	20	24
Cable Length	m	10		
L x W x H	mm	241 x 194 x 433	236 x 187 x 450	383 x 172 x 475

TECHNICAL DATA		● 80U2.75	● 80U21.5	● 80U22.2	● 80U23.7
Discharge Bore	mm	80			
Motor Output	kW	0.75	1.5	2.2	3.7
Phase		Three			
Starting Method		D.O.L.			
Motor Protection		Circle thermal			
Impeller		Vortex / Grey Iron Casting (EN-GJL-200)			
Impeller Passage	mm	46		56	
Voltage	V	400			
Current	A	2.1	3.5	4.9	7.7
Weight	kg	29	40	55	62
Cable Length	m	10			
L x W x H	mm	383 x 172 x 421	420 x 200 x 501	502 x 240 x 562	502 x 234 x 565

UZ

The UZ-series is a 4-pole-motor-based, middle-sized submersible vortex pump design for handling raw sewage, wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum contact to the impeller. Since this mechanism does not require the foreign matters to pass through the impeller vane, the pump offers practically unchokable pumping. The UZ-series is capable of handling the maximum solid size that is equivalent to its discharge bore.



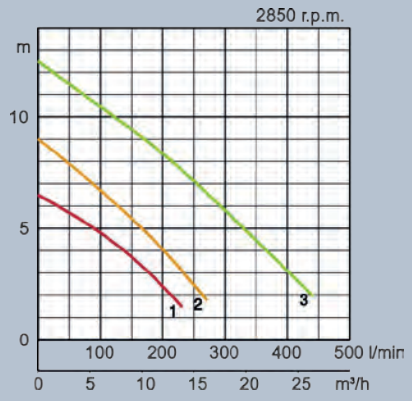


TECHNICAL DATA		● 50UZ41.5 ● 80UZ41.5	● 80UZ42.2	● 80UZ43.7 ● 100UZ43.7
Discharge Bore	mm	50 80	80	80 100
Motor Output	kW	1.5	2.2	3.7
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle thermal		
Impeller		Vortex / Grey Iron Casting (EN-GJL-200)		
Impeller Passage	mm	50 80	80	80 100
Voltage	V	400		
Current	A	4.0	5.0	7.9
Weight	kg	52 66	66	72 79
Cable Length	m	10		
L x W x H	mm	405 x 250 x 566 531 x 261 x 637	531 x 261 x 637	557 x 291 x 688 628 x 314 x 737

TECHNICAL DATA		● 80UZ45.5 ● 100UZ45.5	● 80UZ47.5 ● 100UZ47.5	● 100UZ411
Discharge Bore	mm	80 100		100
Motor Output	kW	5.5	7.5	11
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle thermal		
Impeller		Vortex / Grey Iron Casting (EN-GJL-200)		
Impeller Passage	mm	80 100		100
Voltage	V	400		
Current	A	12.1	15.9	23.8
Weight	kg	129 145	142 158	191
Cable Length	m	10		
L x W x H	mm	595 x 358 x 899 652 x 358 x 939	595 x 358 x 920 652 x 358 x 960	660 x 358 x 1021

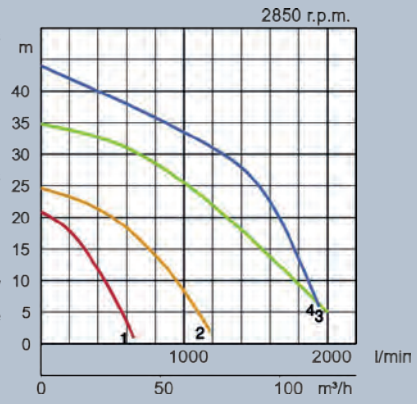
UT

The UT-series is an economical type submersible vortex pump designed for handling raw sewage and wastewater from domestic and commercial areas. Rotation of the impeller produces vortex flow in the pump casing, which allows solid matters and fibrous materials to be pumped out with minimum contact to the impeller. Since this mechanism does not require those foreign matters to pass through the impeller vane, the pump offers practically unchokable pumping.



SFQ

The SFQ-series is a submersible cast stainless steel high head corrosion-resistant pump designed for handling aggressive and corrosive liquid. The all wetted parts are made of 316 stainless steel, the pumps can withstand the most demanding conditions found in construction, aggregate and mining applications. The side-discharge, spiral design allows smoother passage of the sucked solid matters. The pump with 5.5kW and above motor incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.

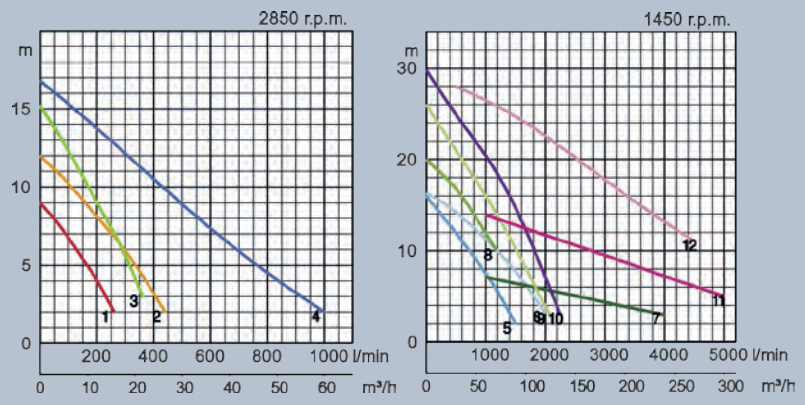


TECHNICAL DATA		● 40UT2.25 40UT2.25S	● 50UT2.4 50UT2.4S	● 50UT2.75 50UT2.75S
Discharge Bore	mm	40	50	
Motor Output	kW	0.25	0.4	0.75
Phase		Three / Single		
Starting Method		D.O.L. / Capacitor Run		
Motor Protection		Circle thermal		
Impeller		Vortex / Grey Iron Casting (EN-GJL-200)		
Impeller Passage	mm	35		
Voltage	V	400V / 230V		
Current	A	0.9 / 2.1	1.2 / 2.8	2 / 5
Weight	kg	13.5 / 14	13.5 / 14	16 / 17
Cable Length	m	10		
L x W x H	mm	239 x 161 x 350	242 x 161 x 350	242 x 161 x 406

TECHNICAL DATA		● 80SFQ21.5	● 80SFQ23.7	● 80SFQ27.5	● 80SFQ211
Discharge Bore	mm	80			
Motor Output	kW	1.5	3.7	7.5	11
Phase		Three			
Starting Method		D.O.L.			Star-Delta
Motor Protection		Circle thermal			
Impeller		Vortex / Semi-open made of 316 Stainless Steel Casting			
Impeller Passage	mm	6	15	30	30
Voltage	V	400			
Current	A	3.8	7.3	14.3	21
Weight	kg	36	52	123	143
Cable Length	m	10			
L x W x H	mm	329 x 221 x 484	359 x 257 x 542	635 x 360 x 844	635 x 360 x 892

B

The B-series is a submersible channel impeller pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subject to complete submersion and requires maximum reliability. The B-series has a proven track record for offering long life in both continuous and intermittent sump applications.

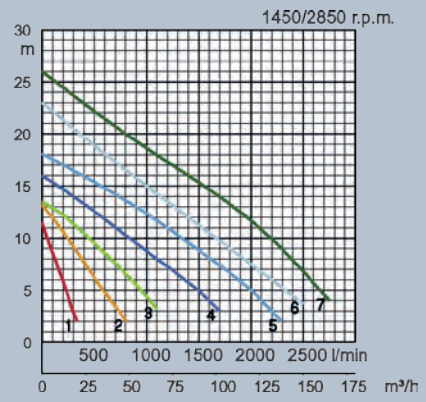


TECHNICAL DATA		● 50B2.4	● 50B2.75 ● 50B2.75H	● 80B21.5	● 100B42.2
Discharge Bore	mm	50		80	100
Motor Output	kW	0.4	0.75	1.5	2.2
Phase		Three			
Starting Method		D.O.L.			
Motor Protection		Circle thermal			
Impeller		Channel / Grey Iron Casting (EN-GJL-200)			
Impeller Passage	mm	19	20	40	45
Voltage	V	400			
Current	A	1.1	1.9	3.5	5
Weight	kg	23	25 24	36	70
Cable Length	m	10			
L x W x H	mm	347 x 224 x 443	405 x 250 x 439 405 x 250 x 415	446 x 250 x 536	569 x 331 x 616

TECHNICAL DATA		● 100B43.7 ● 150B43.7	● 100B43.7H	● 100B45.5	● 100B47.5 ● 150B47.5L	● 150B415
Discharge Bore	mm	100 150	100		100 150	150
Motor Output	kW	3.7		5.5	7.5	15
Phase		Three				
Starting Method		D.O.L.				Star-Delta
Motor Protection		Circle thermal				
Impeller		Channel / Grey Iron Casting (EN-GJL-200)				
Impeller Passage	mm	53	35	40	40 60	75
Voltage	V	400				
Current	A	7.9		12.1	15.9	31.9
Weight	kg	86 145	84	147	169 200	270
Cable Length	m	10				
L x W x H	mm	405 x 250 x 439 405 x 250 x 415	569 x 331 x 666	687 x 400 x 824	687 x 400 x 814 871 x 486 x 1085	895 x 490 x 1168

C

The C-series is a submersible cutter pump designed for handling raw sewage, wastewater, and heavy-duty industrial applications, where the pump is subject to clogging from oversize material. A tungsten carbide alloy edge blazed on the impeller vane on the serrated suction cover. This mechanism cuts incoming fibrous material into pieces, permitting smooth passage of fibrous material.

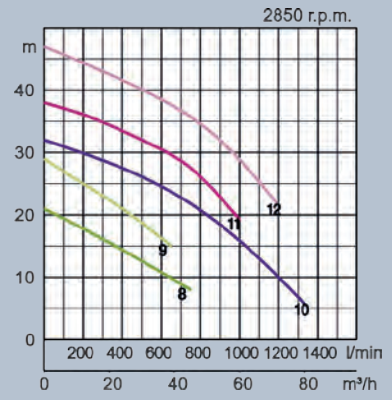


TECHNICAL DATA		● 50C2.75	● 80C21.5	● 100C42.2
Discharge Bore	mm	50	80	100
Motor Output	kW	0.75	1.5	2.2
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle thermal		
Impeller		Channel impeller with cutter mechanism / Grey iron casting (EN-GJL-200) with sintered tungsten carbide alloy tip, Chromium iron casting with sintered tungsten carbide alloy tip		
Impeller Passage	mm	21	37	44
Voltage	V	400		
Current	A	1.9	3.5	5
Weight	kg	24	36	70
Cable Length	m	10		
L x W x H	mm	405 x 250 x 415	446 x 250 x 536	594 x 324 x 616

TECHNICAL DATA		●100C43.7	●100C45.5	●100C47.5	●100C411
Discharge Bore	mm	100			
Motor Output	kW	3.7	4.5	7.5	11
Phase		Three			
Starting Method		D.O.L.			Star-Delta
Motor Protection		Circle thermal			
Impeller		Channel impeller with cutter mechanism / Grey iron casting (EN-GJL-200) with sintered tungsten carbide alloy tip, Chromium iron casting with sintered tungsten carbide alloy tip			
Impeller Passage	mm	60	40	40	50
Voltage	V	400			
Current	A	7.9	12.1	15.9	23.8
Weight	kg	86	140	159	184
Cable Length	m	10			
L x W x H	mm	602 x 331 x 680	687 x 400 x 824	687 x 400 x 814	710 x 431 x 1000

C-CR

The C-CR series is a submersible cutter pump designed for raw sewage, wastewater, and heavy-duty industrial applications, where the pump is subject to clogging from oversize material. Two tungsten carbide alloy edges blazed on the impeller vanes on the serrated suction cover. The mechanism cuts incoming fibrous material. The impeller and suction cover are made of high-chromium cast iron, ensuring excellent durability and enabling the pump to maintain high performance for an extended period.

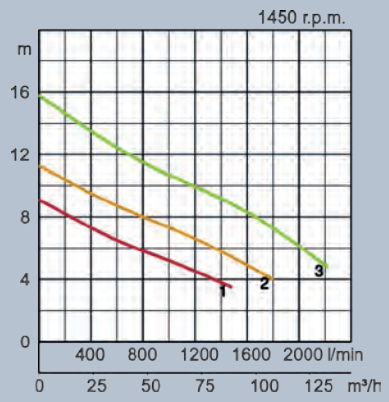


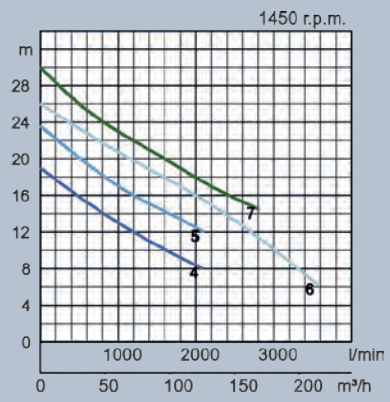
TECHNICAL DATA		● 80C22.2-CR	● 80C23.7-CR	● 80C25.5-CR
Discharge Bore	mm	80		
Motor Output	kW	2.2	3.7	5.5
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle thermal		
Impeller		Channel impeller with cutter mechanism / Grey iron casting (EN-GJL-200) with sintered tungsten carbide alloy tip, Chromium iron casting with sintered tungsten carbide alloy tip		
Impeller Passage	mm	20 x 31	22 x 31	29 x 23
Voltage	V	400		
Current	A	5.2	7.7	11.6
Weight	kg	70	70	125
Cable Length	m	10		
L x W x H	mm	519 x 260 x 611	519 x 260 x 613	615 x 345 x 879

TECHNICAL DATA		● 80C27.5-CR	● 80C211-CR
Discharge Bore	mm	80	
Motor Output	kW	7.5	11
Phase		Three	
Starting Method		D.O.L.	Star-Delta
Motor Protection		Circle thermal	
Impeller		Channel impeller with cutter mechanism / Grey iron casting (EN-GJL-200) with sintered tungsten carbide alloy tip, Chromium iron casting with sintered tungsten carbide alloy tip	
Impeller Passage	mm	26 x 23	26 x 25.5
Voltage	V	400	
Current	A	16.5	23.7
Weight	kg	130	156.5
Cable Length	m	10	
L x W x H	mm	615 x 345 x 879	615 x 345 x 927

BZ

The BZ-series is a submersible channel impeller pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subject to complete submersion and requires minimum reliability. A wide opening channel impeller allows the pump to handle solid matters up to 80mm in diameter.



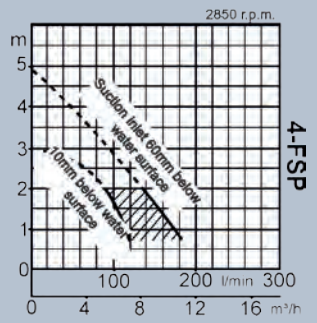


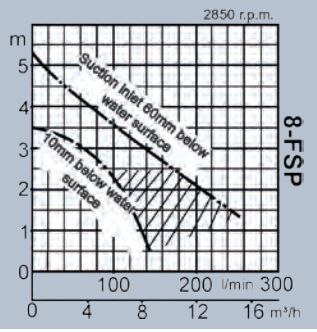
TECHNICAL DATA		● 80BZ41.5	● 100BZ42.2	● 100BZ43.7
Discharge Bore	mm	80	100	
Motor Output	kW	1.5	2.2	3.7
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle thermal		
Impeller		Channel impeller / Grey Iron Casting (EN-GJL-200)		
Impeller Passage	mm	80		
Voltage	V	400		
Current	A	4	5.3	7.9
Weight	kg	78	80	100
Cable Length	m	10		
L x W x H	mm	523 x 273 x 631	551 x 273 x 631	584 x 289 x 681

TECHNICAL DATA		● 100BZ45.5	● 100BZ47.5	● 100BZ411	● 100BZ411H
Discharge Bore	mm	100			
Motor Output	kW	5.5	7.5	11	
Phase		Three			
Starting Method		D.O.L.		Star-Delta	
Motor Protection		Circle thermal			
Impeller		Channel impeller / Grey Iron Casting (EN-GJL-200)			
Impeller Passage	mm	80			
Voltage	V	400			
Current	A	12.1	15.9	23.8	
Weight	kg	175	194	219	
Cable Length	m	10			
L x W x H	mm	716 x 421 x 925	716 x 421 x 946	727 x 431 x 1023	

FSP

The FSP-series is a floating scum skimmer designed for the collection of floating scum in the wastewater treatment. It consists of a submersible pump, jet-injector mechanism, and three floats. The jet-injector mechanism ensures stable suction operation even if water, air and scum are drawn simultaneously. As it is a floating type, the suction mouth can keep its relative position with the water surface, which prevents operation failure due to changes in the water level. The suction mouth can be adjusted to a depth between 0 to 60mm, so that the skimmer can efficiently such scum with minimal amount of water. Adjustment of the depth can be done by turning the floats to right or left.

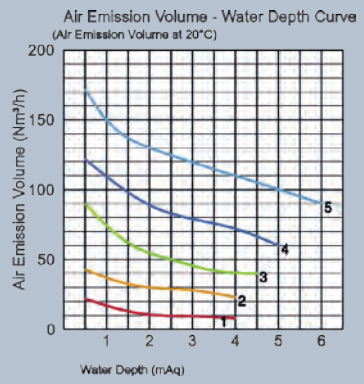




TECHNICAL DATA		4-FSP	8-FSP
Discharge Bore	mm	50	
Motor Output	kW	0.4	0.75
Phase		Three	
Starting Method		D.O.L.	
Motor Protection		Circle thermal	
Impeller		Channel / Grey Iron Casting (EN-GJL-200)	
Impeller Passage	mm	16	22
Voltage	V	400	
Current	A	1.1	1.9
Weight	kg	36	38
Cable Length	m	10	
L x W x H	mm	840 x 825 x 565	

BER

The BER-series is a submersible self-aspiration ejector designed for aeration and mixing of wastewater. It is composed of a combination of submersible pump and venturi-jet based diffuser. The BER-series draws in air and ejects the mixture of air and water through the diffuser. The ejection produces a single but strong mixing current in the water. It is suitable for pre-aeration in sewage and wastewater treatment, mixing to prevent sludge settlement, supplying oxygen in aquaculture, etc.



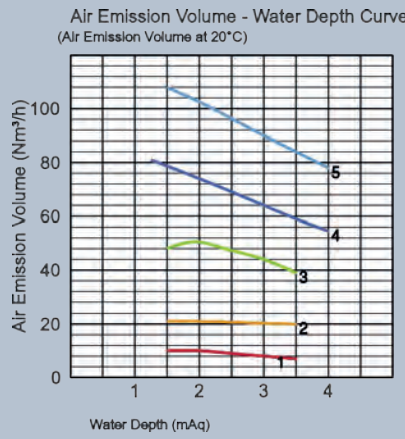
TECHNICAL DATA		8-BER	15-BER	22-BER	37-BER	55-BER
Diameter air pipe	mm	25	32	50		
Motor Output	kW	0.75	1.5	2.2	3.7	5.5
Phase		Three				
Starting Method		D.O.L.				
Motor Protection		Circle thermal				
Impeller		Channel / Grey Iron Casting (EN-GJL-200)				
Tank Dimensions max. L x W x H	m	3 x 2 x 4	4 x 3.5 x 4	5 x 5 x 4.5	6 x 6 x 5	7 x 7 x 6
Voltage	V	400				
Current	A	1.9	3.5	5	7.9	12.1
Weight	kg	28	43	75	91	149
Cable Length	m	10				
L x W x H	mm	674 x 194 x 464	895 x 222 x 562	1158 x 317 x 679	1158 x 317 x 753	1415 x 391 x 942

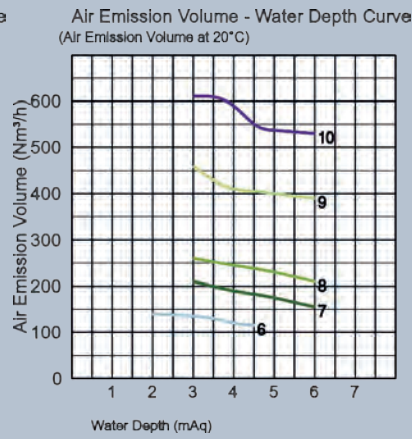
TRN

The TRN-series is a submersible self-aspiration aerator designed for aeration and mixing of wastewater. A special semi-open impeller generates negative pressure around the impeller and draws in air from above the water surface. The drawn air is mixed with water in the aerator, and the mixture is then discharged. Since the mixture of air and water is performed under a pressurized state, it contributes to highly efficient dissolutin of oxygen.

Application to Deeper Installation

Each aerator has a limit in its installation depth, but Tsurumi provides an optional device by which the aerator can be installed in deeper places. It is a simple stand or a stand with draft tube. Details are available on request.



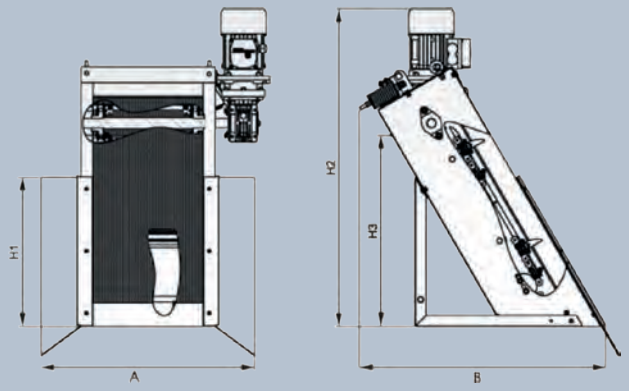


TECHNICAL DATA		32TRN2.75	32TRN21.5	50TRN42.2	50TRN43.7	50TRN45.5
Diameter air pipe	mm	32		50		
Motor Output	kW	0.75	1.5	2.2	3.7	5.5
Phase		Three				
Starting Method		D.O.L.				
Motor Protection		Circle thermal				
Impeller		Vortex / Stainless Steel DIN-GX12Cr14				
Voltage	V	400				
Current	A	2.4	3.5	5.3	8.6	12.1
Weight	kg	55		140	150	170
Cable Length	m	10				
L x W x H	mm	371 x 420 x 473		660 x 700 x 689	660 x 700 x 694	660 x 700 x 835

TECHNICAL DATA		50TRN47.5	80TRN412	80TRN417	100TRN424	150TRN440
Diameter air pipe	mm	50	80		100	150
Motor Output	kW	7.5	12	17	24	40
Phase		Three				
Starting Method		D.O.L.	Star-Delta			
Motor Protection		Circle thermal				
Impeller		Vortex / Stainless Steel DIN-GX12Cr14				
Voltage	V	400				
Current	A	15.9	25.7	32.2	48	83
Weight	kg	190	200	220	460	635
Cable Length	m	10		20		
L x W x H	mm	660 x 700 x 868	660 x 700 x 898	660 x 700 x 958	980 x 1000 x 1254	980 x 1050 x 1459

KW

The KW-series is a front screen type automatic bar screen designed for screening wastewater. It is fully constructed from 304 stainless steel. Two or more rakes travel behind the screen bars located at the front side of the unit. Since every rake tooth moves between the screen bars, it can remove solid matters even through they lodge between the screen bars. In addition, the use of a small output motor enables to save the electricity. The bar screen is suitable for use in a waterway with varying water levels.

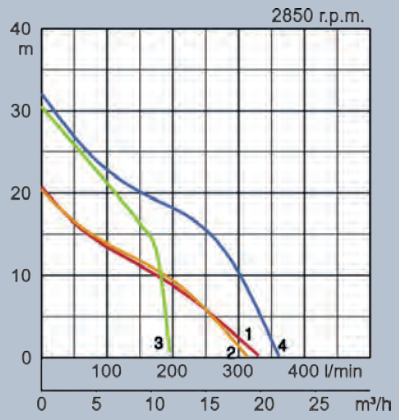


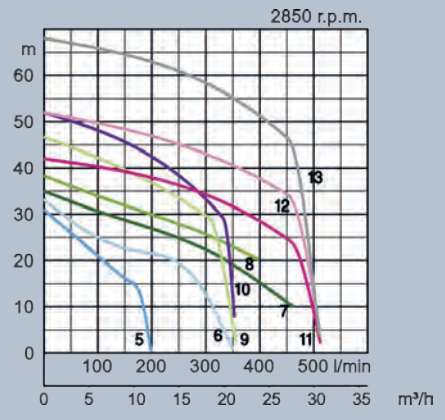
TECHNICAL DATA		KW4027	KW5027	KW6027	KW4038
Motor Output	W	90			
Bar Spacing 1mm/ Capacity	m3/h	17	26	36	27
Bar Spacing 2mm/ Capacity	m3/h	29	45	61	45
Bar Spacing 2.5mm/ Capacity	m3/h	34	52	70	52
Bar Spacing 5mm/ Capacity	m3/h	47	73	98	73
Height H1	mm	270	270	270	380
Height H2	mm	660	660	660	842
Height H3	mm	323	323	323	506
Width water way A	mm	≤ 400	400 - 500	500 - 600	≤ 400
Length B	mm	544	650	774	544
Installation angle		60			
Weight	kg	23.5	27	30.5	27.8

TECHNICAL DATA		KW5038	KW6038	KW4049	KW5049	KW6049
Motor Output	W	90				
Bar Spacing 1mm/ Capacity	m3/h	41	56	39	60	81
Bar Spacing 2mm/ Capacity	m3/h	69	95	66	101	138
Bar Spacing 2.5mm/ Capacity	m3/h	81	109	76	117	158
Bar Spacing 5mm/ Capacity	m3/h	113	153	105	164	223
Height H1	mm	380	380	490	490	490
Height H2	mm	842	842	1057	1057	1057
Height H3	mm	506	506	722	722	722
Width water way A	mm	400 - 500	500 - 600	≤ 400	400 - 500	500 - 600
Length B	mm	650	774	544	650	774
Installation angle		60				
Weight	kg	32.1	36.5	31.8	37.1	42.3

GY

The GY-series is a submersible grinder pump designed for handling raw sewage and wastewater where the pump is subject to clogging from oversize material. An open-multivane channel impeller with cutting mechanism ensures that fibrous foreign matter is cut up and sewage is transferred without clogging. GY-series are available with the option of moisture sensor for humidity control (GYM-series), and explosion-proof version (GYX / GYXM-series).





TECHNICAL DATA		● 50GY2.9	●50GY21.1S ●50GY21.5S	● 50GY21.8S	● 50GY21.6	● 50GY21.9
Discharge Bore	mm	50				
Motor Output	kW	0.9	1.1 1.5	1.8	1.6	1.9
Phase		Three	Single		Three	
Starting Method		D.O.L.	Capacitor Run		D.O.L.	
Motor Protection		Thermoprotector (Bimetal)				
Impeller		Vane Impeller with cutter system				
Voltage	V	400	230		400	
Current	A	2.5	7.5 9.5	12	3.5	4.4
Weight	kg	32.9	31.7 42.3	42.5	42.3	42.4
Cable Length	m	10				
L x W x H	mm	350 x 350 x 406	212 x 239 x 406 350 x 350 x 468	350 x 350 x 468	350 x 350 x 468	350 x 350 x 468
Option: X=ATEX		X				

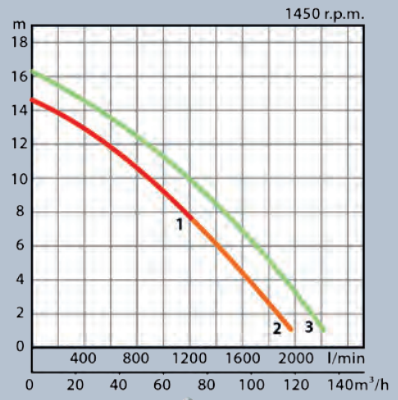
TECHNICAL DATA		● 50GY23.1 ● 50GY23.1H	● 50GY23.7	● 50GY24.4	● 50GYM26.4 ● 50GYM26.4H	● 50GYM29.5
Discharge Bore	mm	50				
Motor Output	kW	3.1	3.7	4.4	6.4	9.5
Phase		Three				
Starting Method		D.O.L.	Star-Delta			
Motor Protection		Thermoprotector (Bimetal)				
Impeller		Vane Impeller with cutter system				
Voltage	V	400				
Current	A	6.4	7.5	8.7	13	19
Weight	kg	49.8	61.3	61.3	107.2 110.5	113.4
Cable Length	m	10				
L x W x H	mm	350 x 350 x 505	350 x 350 x 545	350 x 350 x 545	410 x 410 x 771	410 x 410 x 844
Option: M=Moisture sensor,X=ATEX		X			M, XM	

Sewage | Moisture Sensor* | ATEX*

UY

The UY-series is a 4-pole-motor-based, wet-well submersible vortex pump designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum contact to the impeller. Since this mechanism does not require the foregin matters to pass through the impeller vane, the pump offers practically unchokable pumping.

UY-series are available with the option of moisture sensor for humidity control (UYM-series), and explosion-proof version (UYX / UYXM-series).

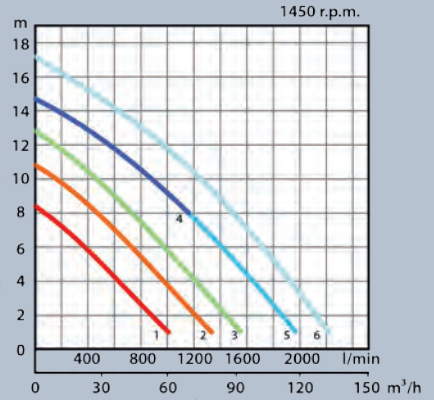


Sewage | Moisture Sensor* | ATEX*

UYZ

The UYZ-series is a 4-pole-motor-based, wet-well submersible vortex pump designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum contact to the impeller. Since this mechanism does not require the foreign matters to pass through the impeller vane, the pump offers practically unchokable pumping.

UYZ-series are available with the option of moisture sensor for humidity control (UYZM-series), and explosion-proof version (UYZX / UYZXM-series).



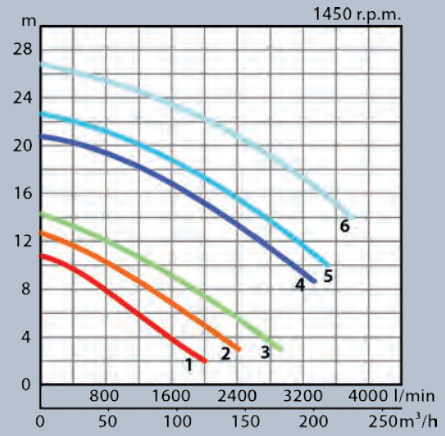
TECHNICAL DATA		● 100UY43.7H	● 100UY45.0	● 100UY46.5
Discharge Bore	mm	100		
Motor Output	kW	3.7	5.0	6.5
Phase		Three		
Starting Method		D.O.L. / Star-Delta	Star-Delta	
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Vortex		
Voltage	V	400		
Current	A	7.5	9.9	13
Weight	kg	128.1	131.7	134.5
Cable Length	m	10		
Impeller Passage	mm	80		
L x W x H	mm	438 x 316 x 774	438 x 316 x 774	438 x 316 x 774
Option: M=Moisture sensor, X=ATEX		M, X, XM		

TECHNICAL DATA		● 80UYZ41.3 ● 80UYZ42.6L	● 80UYZ42.6 ● 80UYZ43.7H	● 80UYZ45.0 ● 80UYZ46.5
Discharge Bore	mm	80		
Motor Output	kW	1.3 2.6	2.6 3.7	5.0 6.5
Phase		Three		
Starting Method		D.O.L.	D.O.L. D.O.L. / Star-Delta	Star-Delta
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Vortex		
Voltage	V	400		
Current	A	3.3 6.2	6.2 7.5	9.9 13
Weight	kg	78.0 86.2	86.3 123.7	127.2 130.1
Cable Length	m	10		
Impeller Passage	mm	80		
L x W x H	mm	365 x 290 x 526 408 x 316 x 563	408 x 316 x 767 408 x 316 x 767	408 x 316 x 767 408 x 316 x 767
Option: M=Moisture sensor, X=ATEX		M, X, XM		

UYZ

The UYZ-series is a 4-pole-motor-based, wet-well submersible vortex pump designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum contact to the impeller. Since this mechanism does not require the foreign matters to pass through the impeller vane, the pump offers practically unchokable pumping.

UYZ-series are available with the option of moisture sensor for humidity control (UYZM-series), dry-installaion (UYZMK-series) and explosion-proof version (UYZX / UYZXM / UYZXMK-series).



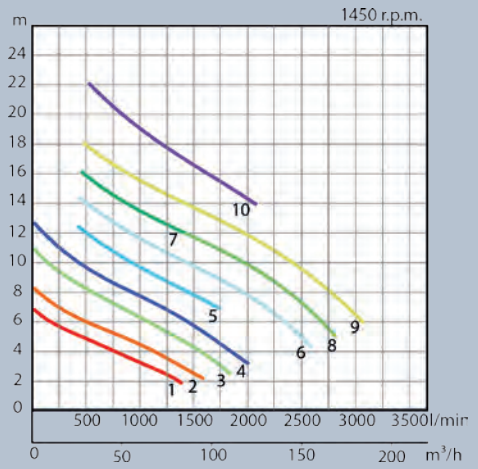
TECHNICAL DATA		● 100UYZ43.2	● 100UYZ45.0	● 100UYZ46.5
Discharge Bore	mm	100		
Motor Output	kW	3.2	5.0	6.5
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Vortex		
Voltage	V	400		
Current	A	7.3	9.9	13
Weight	kg	97.9	134.3	136.9
Cable Length	m	10		
Impeller Passage	mm	100		
L x W x H	mm	410 x 296 x 630	410 x 296 x 630	460 x 336 x 804
Option: M=Moisture sensor, X=ATEX		M, X, XM		

TECHNICAL DATA		● 100UYZ412.2	● 100UYZ414.6	● 100UYZ419.3
Discharge Bore	mm	100		
Motor Output	kW	12.2	14.6	19.3
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Vortex		
Voltage	V	400		
Current	A	23	29	36
Weight	kg	176.1	215.5	239.8
Cable Length	m	10		
Impeller Passage	mm	100		
L x W x H	mm	576 x 457 x 994	555 x 410 x 1098	555 x 410 x 1098
Option: M=Moisture sensor, K= Cooling jacket, X=ATEX		M, MK, X, XM, XMK		

BY -DN100-

The 100BY-series is a 4-pole-motor-based, wet-well submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. A wide opening channel impeller allows the pump to handle solid matter up to 80mm.

Options such as moisture sensor in the oil bath (BYM-series), explosion-proof version (BYX / BYXM-series) are available.



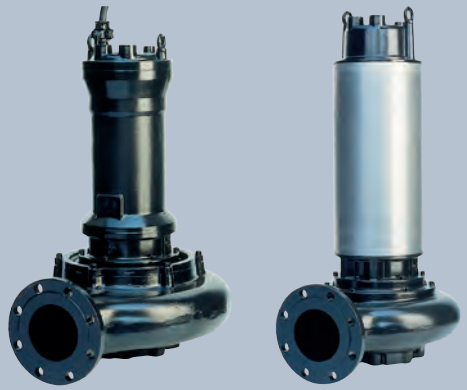
TECHNICAL DATA		● 100BY41.3	● 100BY42.6LL ● 100BY42.6L	● 100BY42.6
Discharge Bore	mm	100		
Motor Output	kW	1.3	2.6	2.6
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Single Channel		
Voltage	V	400		
Current	A	3.3	6.2	6.2
Weight	kg	78.7	85.3 85.3	85.3
Cable Length	m	10		
Impeller Passage	mm	80		
L x W x H	mm	305 x 360 x 517	305 x 360 x 554 305 x 360 x 554	305 x 360 x 554
Option: M=Moisture sensor, X=ATEX		M, X, XM		

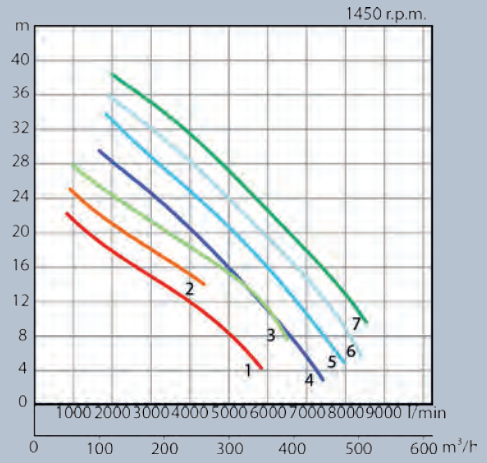
TECHNICAL DATA		● 100BY42.9	● 100BY43.7 ● 100BY43.7H	● 100BY45.0	● 100BY46.5 ● 100BY46.5H
Discharge Bore	mm	100			
Motor Output	kW	2.9	3.7	5.0	6.5
Phase		Three			
Starting Method		D.O.L.	D.O.L. / Star-Delta	Star-Delta	
Motor Protection		Thermoprotector (Bimetal)			
Impeller		Single Channel			
Voltage	V	400			
Current	A	5.8	7.5	9.9	13.1
Weight	kg	115.9	119.2 119.2	126.8	129.4 147.7
Cable Length	m	10			
Impeller Passage	mm	80			
L x W x H	mm	357 x 460 x 692	357 x 460 x 692 357 x 460 x 692	357 x 460 x 765	357 x 460 x 765 381 x 488 x 772
Option: M=Moisture sensor, X=ATEX		M, X, XM			

BY -DN150-

The 150BY-series is a 4-pole-motor-based, wet-well (dry-well) submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. A wide opening channel impeller allows the pump to handle solid matter up to 100mm.

Options such as moisture sensor in the oil bath (BYM-series), dry installation (BYMK), and explosion-proof version (BYX / BYXM / BYXMK-series) are available.





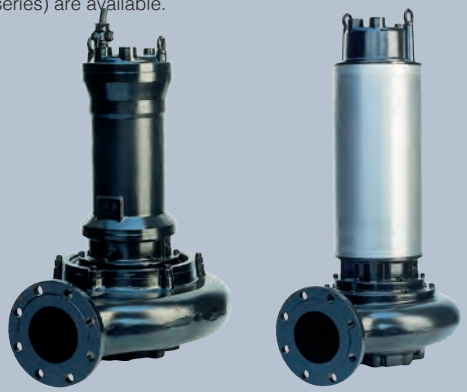
TECHNICAL DATA		● 150BY412.2	● 150BY414.6	● 150BY419.3
Discharge Bore	mm	150		
Motor Output	kW	12.2	14.6	19.3
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Single Channel		
Voltage	V	400		
Current	A	23	28.8	36.5
Weight	kg	213.5	219.8	241.1
Cable Length	m	10		
Impeller Passage	mm	100		
L x W x H	mm	467 x 610 x 895	467 x 610 x 895	467 x 610 x 985
Option: M=Moisture sensor, K=Cooling jacket, X=ATEX		M, MK, X, XM, XMK		

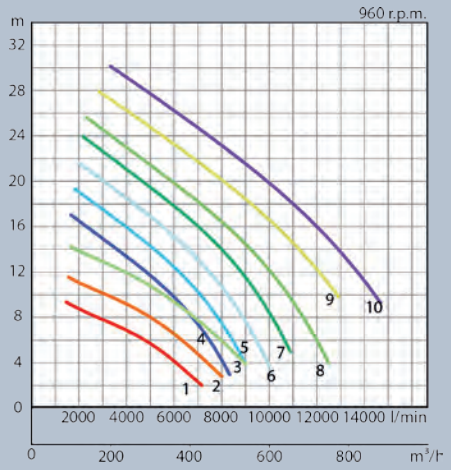
TECHNICAL DATA		● 150BY422	● 150BY425.6	● 150BY429.2	● 150BY433
Discharge Bore	mm	150			
Motor Output	kW	22	25.6	29.2	33
Phase		Three			
Starting Method		Star-Delta			
Motor Protection		Thermoprotector (Bimetal)			
Impeller		Single Channel			
Voltage	V	400			
Current	A	44	51.4	59	67.1
Weight	kg	401.0	432.7	449.8	449.4
Cable Length	m	10			
Impeller Passage	mm	100			
L x W x H	mm	547 x 690 x 1201	547 x 690 x 1326	547 x 690 x 1326	547 x 690 x 1326
Option: M=Moisture sensor, K=Cooling jacket, X=ATEX		M, MK, X, XM, XMK			

BYM -DN200-

The 200BYM-series is a 6-pole-motor-based, wet-well (dry-well) submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. As a standard option, it is equipped with the moisture sensor in the oil bath. A wide opening channel impeller allows the pump to handle solid matter up to 100mm.

Options such as cooling jacket for dry installation (BYMK), and explosion-proof version (BYXM / BYXMK-series) are available.





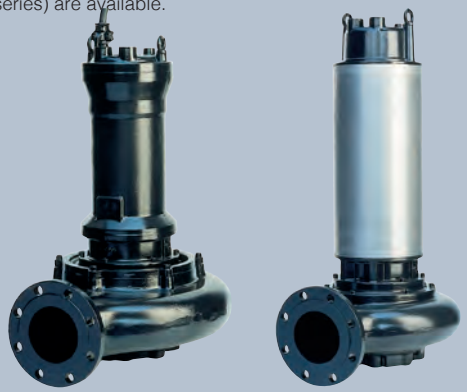
TECHNICAL DATA		● 200BYM67.3 ● 200BYM610	● 200BYM613.6 ● 200BYM616.8
Discharge Bore	mm	200	
Motor Output	kW	7.3 10	13.6 16.8
Phase		Three	
Starting Method		Star-Delta	
Motor Protection		Thermoprotector (Bimetal)	
Impeller		Double Channel	
Voltage	V	400	
Current	A	16.3 22.4	29.4 36.4
Weight	kg	308.8 327.8	339.5 485.8
Cable Length	m	10	
Impeller Passage	mm	100	
L x W x H	mm	547 x 740 x 990 547 x 740 x 1050	547 x 740 x 1140 650 x 878 x 1208
Option: K=Cooling jacket, X=ATEX		K, X, XK	

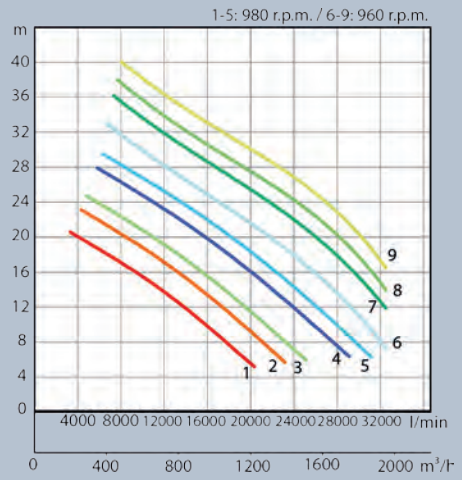
TECHNICAL DATA		● 200BYM619.5 ● 200BYM622.6	● 200BYM625.8 ● 200BYM633.2	● 200BYM640.5 ● 200BYM649.5
Discharge Bore	mm	200		
Motor Output	kW	19.5 22.6	25.8 33.2	40.5 49.5
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Double Channel		
Voltage	V	400		
Current	A	41.2 48.3	55.5 67.5	82.1 99.7
Weight	kg	500.9 526.6	531.5 670.8	909.4 932.0
Cable Length	m	10		
Impeller Passage	mm	100		
L x W x H	mm	650 x 878 x 1333 650 x 878 x 1333	650 x 878 x 1333 650 x 878 x 1388	779 x 1000 x 1405 779 x 1000 x 1535
Option: K=Cooling jacket, X=ATEX		K, X, XK		K, X, XK K

BYM -DN300-

The 300BYM-series is a 6-pole-motor-based, wet-well (dry-well) submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. As a standard option, it is equipped with the moisture sensor in the oil bath. A wide opening channel impeller allows the pump to handle solid matter up to 150mm.

Options such as cooling jacket for dry installation (BYMK), and explosion-proof version (BYXM / BYXMK-series) are available.





TECHNICAL DATA		● 300BYM640.5	● 300BYM649.5 ● 300BYM658
Discharge Bore	mm	300	
Motor Output	kW	40.5	49.5 58
Phase		Three	
Starting Method		Star-Delta	
Motor Protection		Thermoprotector (Bimetal)	
Impeller		Double Channel	
Voltage	V	400	
Current	A	82.1	99.7 118
Weight	kg	1039.0	1023.0 1071.0
Cable Length	m	10	
Impeller Passage	mm	150	
L x W x H	mm	915 x 1100 x 1463	915 x 1100 x 1593 915 x 1100 x 1593
Option: K=Cooling jacket, X=ATEX		K, X, XK	K

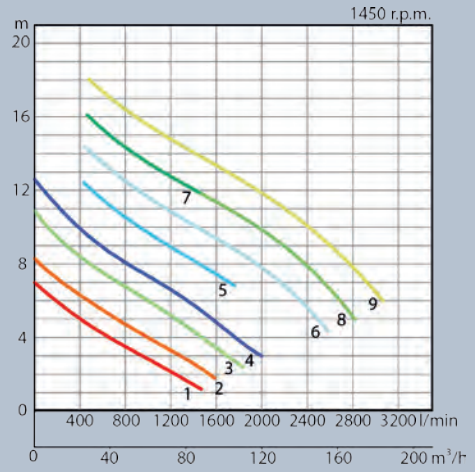
TECHNICAL DATA		● 300BYM668.5 ● 300BYM682	● 300BYM698 ● 300BYM6112	● 300BYM6132 ● 300BYM6160
Discharge Bore	mm	300		
Motor Output	kW	68.5 82	98 112	132 160
Phase		Three		
Starting Method		Star-Delta		D.O.L.
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Double Channel		
Voltage	V	400		
Current	A	138 166	196 227	241 287
Weight	kg	1280.0 1330.0	1549.0 1601.0	1830.0 1980.0
Cable Length	m	10		
Impeller Passage	mm	150		
L x W x H	mm	915 x 1100 x 1773 915 x 1100 x 1773	1022 x 1220 x 1773 1022 x 1220 x 1773	1022 x 1220 x 2090 1022 x 1220 x 2090
Option: K=Cooling jacket		K		

Sewage | Moisture Sensor* | ATEX*

BYZ -DN80-

The 80BYZ-series is a 4-pole-motor-based, wet-well submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. A wide opening channel impeller allows the pump to handle solid matter up to 80mm.

Options such as moisture sensor (BYZM-series) and explosion-proof version (BYZX / BYZXM-series) are available.



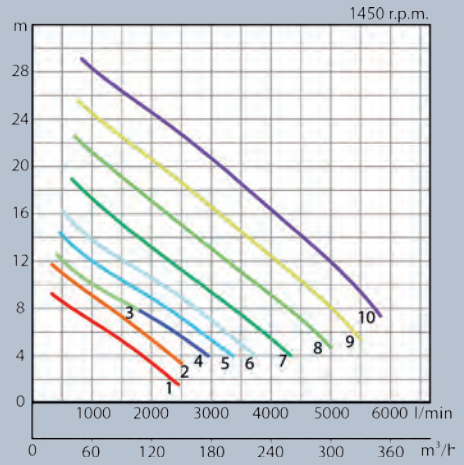
TECHNICAL DATA		● 80BYZ41.3	● 80BYZ42.6LL ● 80BYZ42.6L
Discharge Bore	mm	80	
Motor Output	kW	1.3	2.6
Phase		Three	
Starting Method		D.O.L.	
Motor Protection		Thermoprotector (Bimetal)	
Impeller		Single Channel	
Voltage	V	400	
Current	A	3.3	6.2
Weight	kg	78.7	88.7 88.7
Cable Length	m	10	
Impeller Passage	mm	80	
L x W x H	mm	305 x 360 x 517	305 x 360 x 554 305 x 360 x 554
Option: M=Moisture sensor, X=ATEX		M, X, XM	

TECHNICAL DATA		● 80BYZ42.6 ● 80BYZ42.9	● 80BYZ43.7 ● 80BYZ43.7H	● 80BYZ45.0 ● 80BYZ46.5
Discharge Bore	mm	80		
Motor Output	kW	2.6 2.9	3.7	5.0 6.5
Phase		Three		
Starting Method		D.O.L.	D.O.L. / Star-Delta	Star-Delta
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Single Channel		
Voltage	V	400		
Current	A	6.2 5.8	7.5	9.9 13.1
Weight	kg	88.7 114.9	118.2 118.2	125.8 128.4
Cable Length	m	10		
Impeller Passage	mm	80		
L x W x H	mm	305 x 360 x 554 357 x 460 x 692	357 x 460 x 692 357 x 460 x 692	357 x 460 x 765 357 x 460 x 765
Option: M=Moisture sensor, X=ATEX		M, X, XM		

BYZ -DN100-

The 100BYZ-series is a 4-pole-motor-based, wet-well submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. A wide opening channel impeller allows the pump to handle solid matter up to 100mm.

Options such as moisture sensor (BYZM-series), cooling jacket for dry installation (BYZMK-series), and explosion-proof version (BYZX / BYZXM / BYZXMK-series) are available.



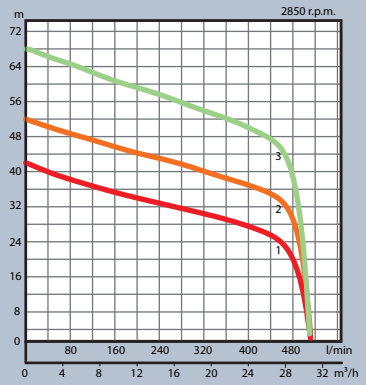
TECHNICAL DATA		● 100BYZ42.9 ● 100BYZ43.7	● 100BYZ43.7H ● 100BYZ45.0L
Discharge Bore	mm	100	
Motor Output	kW	2.9 3.7	3.7 5.0
Phase		Three	
Starting Method		D.O.L. D.O.L. / Star-Delta	D.O.L. / Star-Delta Star-Delta
Motor Protection		Thermoprotector (Bimetal)	
Impeller		Single Channel	
Voltage	V	400	
Current	A	5.8 7.5	7.5 9.9
Weight	kg	118.6 122.8	129.5 139.1
Cable Length	m	10	
Impeller Passage	mm	100	
L x W x H	mm	323 x 422 x 737 323 x 422 x 737	335 x 460 x 733 335 x 460 x 806
Option: M=Moisture sensor, K=Cooling jacket, X=ATEX		M, X, XM	

TECHNICAL DATA		● 100BYZ45.0 ● 100BYZ46.5	● 100BYZ412.2L ● 100BYZ412.2	● 100BYZ414.6 ● 100BYZ419.3
Discharge Bore	mm	100		
Motor Output	kW	5.0 6.5	12.2	14.6 19.3
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Single Channel		
Voltage	V	400		
Current	A	9.9 13.1	23	28.8 36.5
Weight	kg	139.1 138.4	209.0 209.0	209.0 231.0
Cable Length	m	10		
Impeller Passage	mm	100		
L x W x H	mm	335 x 460 x 806 335 x 460 x 806	457 x 585 x 878 457 x 585 x 878	457 x 585 x 878 457 x 585 x 968
Option: M=Moisture sensor, K=Cooling jacket, X=ATEX		M, X, XM	M, MK, X, XM, XMK	

Premium Efficiency | Grinder | Moisture Sensor | Cooling Jacket | ATEX*

GPM

The GPM-series is a submersible grinder pump, equipped with premium efficiency of IE3 class motor, designed for handling raw sewage and wastewater where the pump is subject to clogging from oversize material.
An open-multivane channel impeller with cutting mechanism ensures that fibrous foreign matter is cut up and sewage is transferred without clogging.
GPM-series are available with the option of explosion-proof version (GPXM-series).

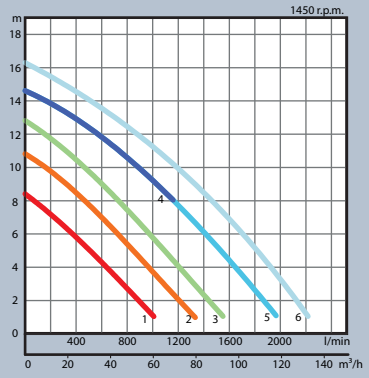


Premium Efficiency | Sewage | Moisture Sensor | Cooling Jacket | ATEX*

UPM

The UPM-series is a 4-pole-motor-based, wet-well submersible vortex pump, equipped with premium efficiency of IE3 class motor, designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum contact to the impeller. Since this mechanism does not require the foregin matters to pass through the impeller vane, the pump offers practically unchokable pumping.

UPM-series are available with the option of explosion-proof version (UPXM-series).



TECHNICAL DATA		●50GPM26.4	●50GPM26.4H	●50GPM29.5
Discharge Bore	mm	50		
Motor Output	kW	6.4	6.4	9.5
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Vane Impeller with cutter system		
Voltage	V	400		
Current	A	12	12	20
Weight	kg	122	122	139
Cable Length	m	10		
L x W x H	mm	365 x 415 x 795	365 x 415 x 795	365 x 415 x 865
Option: X=ATEX		X		

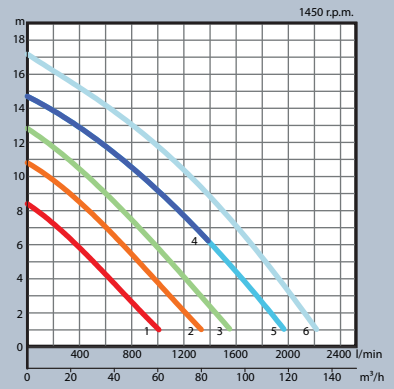
TECHNICAL DATA		●100UPM42.9LL ●100UPM42.9L	●100UPM42.9 ●100UPM43.7H	●100UPM45.0 ●100UPM46.5
Discharge Bore	mm	100		
Motor Output	kW	2.9	2.6 3.7	5.0 6.5
Phase		Three		
Starting Method		D.O.L.	D.O.L. D.O.L. / Star-Delta	Star-Delta
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Vortex		
Voltage	V	400		
Current	A	5.9	5.9 7.3	10 13
Weight	kg	119.8	119.8 123.2	123.2 144.1
Cable Length	m	10		
Impeller Passage	mm	80		
L x W x H	mm	395 x 310 x 722 438 x 316 x 722	438 x 316 x 722 438 x 316 x 722	438 x 316 x 722 438 x 316 x 792
Option: X=ATEX		X		

Premium Efficiency | Sewage | Moisture Sensor | Cooling Jacket | ATEX*

UPZM -DN80-

The UPZM-series is a 4-pole-motor-based, wet/dry-well submersible vortex pump, equipped with premium efficiency of IE3 class motor, designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum contact to the impeller. Since this mechanism does not require the foreign matters to pass through the impeller vane, the pump offers practically unchokable pumping.

UPZM-series are available with the option of explosion-proof version (UPZXM-series).



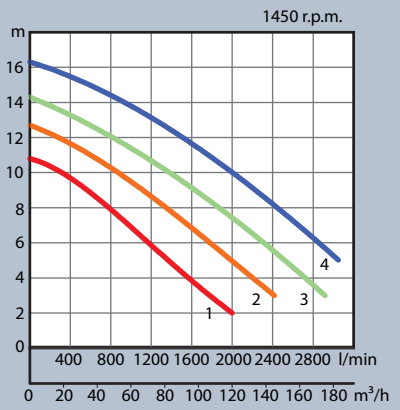
TECHNICAL DATA		●80UPZM42.9LL ●80UPZM42.9L	●80UPZM42.9 ●80UPZM43.7H	●80UPZM45.0 ●80UPZM46.5
Discharge Bore	mm	80		
Motor Output	kW	2.9	2.6 3.7	5.0 6.5
Phase		Three		
Starting Method		D.O.L.	D.O.L. D.O.L. / Star-Delta	Star-Delta
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Vortex		
Voltage	V	400		
Current	A	5.9	5.9 7.3	10 13
Weight	kg	116.3	116.3 120.8	120.8 141.8
Cable Length	m	10		
Impeller Passage	mm	80		
L x W x H	mm	375 x 310 x 722 408 x 316 x 722	408 x 316 x 722 408 x 316 x 722	408 x 316 x 722 408 x 316 x 792
Option: X=ATEX		X		

Premium Efficiency | Sewage | Moisture Sensor | Cooling Jacket | ATEX*

UPZM -DN100-

The UPZM-series is a 4-pole-motor-based, wet/dry-well submersible vortex pump, equipped with premium efficiency of IE3 class motor, designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum contact to the impeller. Since this mechanism does not require the foreign matters to pass through the impeller vane, the pump offers practically unchokable pumping.

UPZM-series are available with the option of explosion-proof version (UPZXM-series).



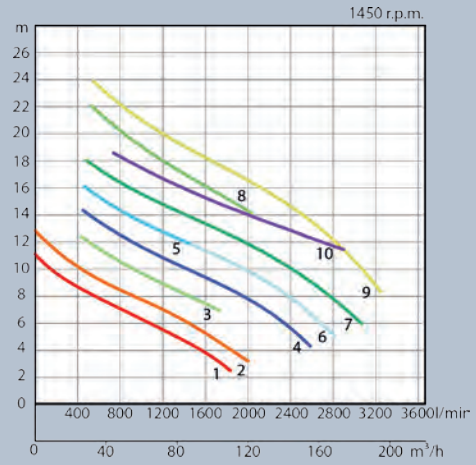
TECHNICAL DATA		●100UPZM43.7	●100UPZM45.0	●100UPZM46.5	●100UPZM48.5
Discharge Bore	mm	100			
Motor Output	kW	3.7	5.0	6.5	8.5
Phase		Three			
Starting Method		Star-Delta			
Motor Protection		Thermoprotector (Bimetal)			
Impeller		Vortex			
Voltage	V	400			
Current	A	7.3	10	13	17
Weight	kg	123.6	125.8	146.5	146.7
Cable Length	m	10			
Impeller Passage	mm	100			
L x W x H	mm	410 X 310 X 751	460 x 336 x 751	460 x 336 x 821	460 x 336 x 821
Option: X=ATEX		X			

Premium Efficiency | Sewage | Moisture Sensor | ATEX*

BPM

The BPM-series is a 4-pole-motor-based, high efficiency wet-well/dry-well submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. It is equipped with IE-3 premium efficiency motor and its able to install dry-well without the cooling jacket. As a standard option, it is equipped with the moisture sensor in the oil bath. A wide opening channel impeller allows the pump to handle solid matter up to 80 - 100mm.

Option for Explosion-proof version (BPXM-series) are available.



TECHNICAL DATA		● 100BPM42.9LL ● 100BPM42.9L	● 100BPM42.9 ● 100BPM43.7
Discharge Bore	mm	100	
Motor Output	kW	2.9	2.9 3.7
Phase		Three	
Starting Method		D.O.L.	D.O.L. D.O.L. / Star-Delta
Motor Protection		Thermoprotector (Bimetal)	
Impeller		Single Channel	
Voltage	V	400	
Current	A	5.9	5.9 7.3
Weight	kg	130.0 130.0	135.0 135.0
Cable Length	m	10	
Impeller Passage	mm	80	
L x W x H	mm	315 x 360 x 714 315 x 360 x 714	357 x 460 x 720 357 x 460 x 720
Option: X= ATEX		X	

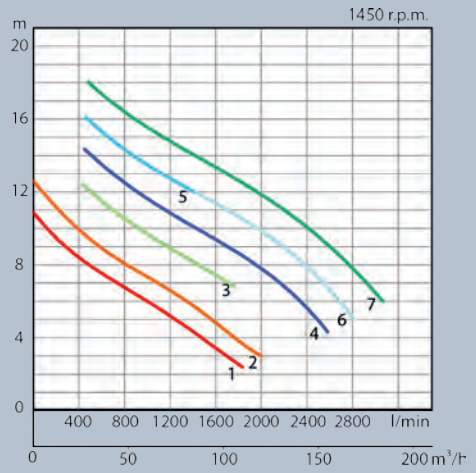
TECHNICAL DATA		● 100BPM43.7H ● 100BPM45.0	● 100BPM46.5 ● 100BPM46.5H	● 100BPM48.5 ● 150BPM48.5
Discharge Bore	mm	100		100 150
Motor Output	kW	3.7 5.0	6.5	8.5
Phase		Three		
Starting Method		D.O.L. / Star-Delta Star-Delta	Star-Delta	
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Single Channel		
Voltage	V	400		
Current	A	7.3 10.2	13.4	16.8
Weight	kg	135.0 135.0	153.0 171.1	171.1 189.0
Cable Length	m	10		
Impeller Passage	mm	80		80 100
L x W x H	mm	357 x 460 x 720 357 x 460 x 720	357 x 460 x 720 381 x 488 x 803	381 x 488 x 803 467 x 610 x 861
Option: X=ATEX		X		

Premium Efficiency | Sewage | Moisture Sensor | ATEX*

BPZM -DN80-

The 80BPZM-series is a 4-pole-motor-based, wet-well (dry-well) submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. It is equipped with IE-3 premium efficiency motor and its able to install dry-well without the cooling jacket. As a standard option, it is equipped with the moisture sensor in the oil bath. A wide opening channel impeller allows the pump to handle solid matter up to 80mm.

Option for Explosion-proof version (BPZXM-series) are available.



TECHNICAL DATA		● 80BPZM42.9LL	● 80BPZM42.9L	● 80BPZM42.9
Discharge Bore	mm	80		
Motor Output	kW	2.9		
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Single Channel		
Voltage	V	400		
Current	A	5.9		
Weight	kg	130.0	130.0	134.0
Cable Length	m	10		
Impeller Passage	mm	80		
L x W x H	mm	315 x 360 x 714	315 x 360 x 714	357 x 460 x 720
Option: X=ATEX		X		

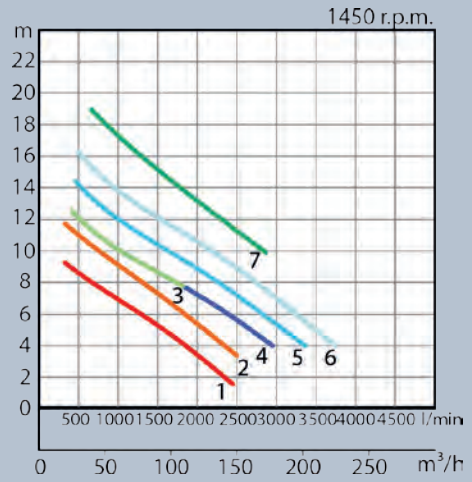
TECHNICAL DATA		● 80BPZM43.7	● 80BPZM43.7H	● 80BPZM45.0	● 80BPZM46.5
Discharge Bore	mm	80			
Motor Output	kW	3.7		5.0	6.5
Phase		Three			
Starting Method		D.O.L / Star-Delta		Star-Delta	
Motor Protection		Thermoprotector (Bimetal)			
Impeller		Single Channel			
Voltage	V	400			
Current	A	7.3		10.2	13.4
Weight	kg	134.0	134.0	134.0	152.0
Cable Length	m	10			
Impeller Passage	mm	80			
L x W x H	mm	357 x 460 x 720	357 x 460 x 720	357 x 460 x 720	357 x 460 x 790
Option: X=ATEX		X			

Premium Efficiency | Sewage | Moisture Sensor | ATEX*

BPZM -DN100-

The 100BPZM-series is a 4-pole-motor-based, wet-well (dry-well) submersible channel pump designed for handling raw sewage, wastewater and heavy-duty industrial applications, where the pump is subjected to complete submersion and requires maximum reliability. It is equipped with IE-3 premium efficiency motor and its able to install dry-well without the cooling jacket. As a standard option, it is equipped with the moisture sensor in the oil bath. A wide opening channel impeller allows the pump to handle solid matter up to 100mm.

Option for Explosion-proof version (BPZXM-series) are available.



TECHNICAL DATA		● 100BPZM42.9	● 100BPZM43.7	● 100BPZM43.7H
Discharge Bore	mm	100		
Motor Output	kW	2.9	3.7	
Phase		Three		
Starting Method		D.O.L.	D.O.L. / Star-Delta	
Motor Protection		Thermoprotector (Bimetal)		
Impeller		Single Channel		
Voltage	V	400		
Current	A	5.9	7.3	
Weight	kg	138.0	138.0	142.0
Cable Length	m	10		
Impeller Passage	mm	100		
L x W x H	mm	331 x 422 x 765	331 x 422 x 765	342 x 460 x 761
Option: X=ATEX		X		

TECHNICAL DATA		●100BPZM45.0L	●100BPZM45.0	●100BPZM46.5	●100BPZM48.5H
Discharge Bore	mm	100			
Motor Output	kW	5.0		6.5	8.5
Phase		Three			
Starting Method		Star-Delta			
Motor Protection		Thermoprotector (Bimetal)			
Impeller		Single Channel			
Voltage	V	400			
Current	A	10.2		13.4	16.8
Weight	kg	142.0	142.0	160.0	184.0
Cable Length	m	10			
Impeller Passage	mm	100			
L x W x H	mm	342 x 460 x 761	342 x 460 x 761	342 x 460 x 831	457 x 585 x 844
Option: X=ATEX		X			

Memo

TSURUMI PUMP
STRONGER FOR LONGER