TSURUMI PUMP
STRONGER FOR LONGER

SEWAGE & WASTEWATER

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Tsurumi Manufacturing Co., Ltd.

Tsurumi Manufacturing Co., Ltd. was founded in Osaka, JAPAN 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 having the capacity of 1,000,000 unit a year.
Also, other cutting-edge plants in Yonago(Japan), Taiwan, China, Korea and Vietnam that are capable of mass-producing products. All plants work together to form a highly efficient production system.

Global Network

Tsurumi introduced its overseas strategy in the 1960s. Our technical capabilities gained recognition first in Asia in the 1970s and then in the United States and Europe in the 1980s. 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.

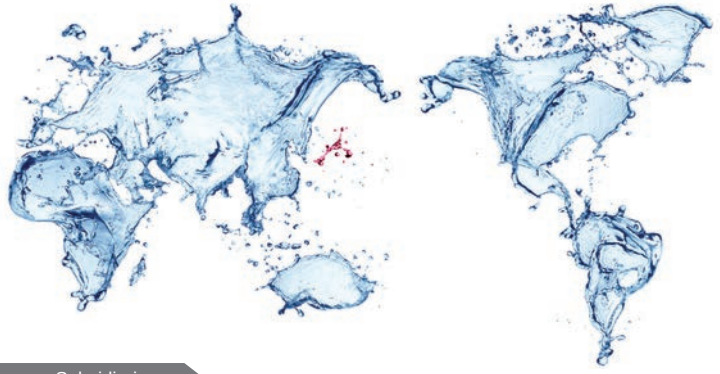

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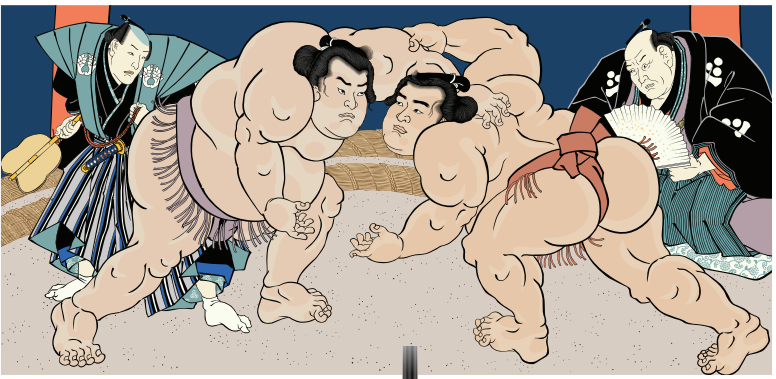
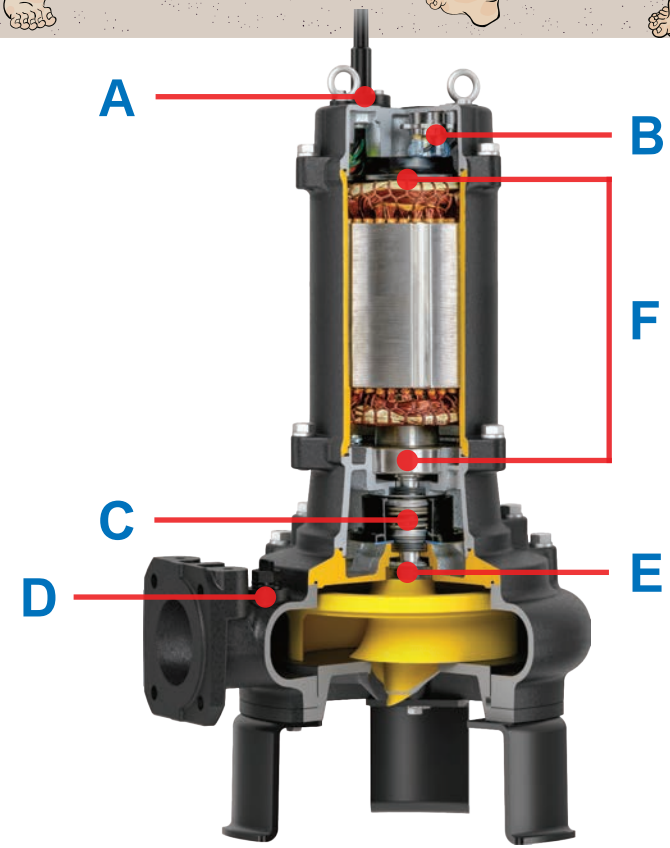
Table of Contents

WHAT MAKES TSURUMI PUMP STRONGER FOR LONGER





A. Anti-Wicking Cable Entry

Anti Wicking Cable Entry which protects and encapsulates all wire connections within a rubber mould or epoxy potting system. This system negates the risk of water incursion into the motor caused by capillary wicking preventing damage occurring when the pump in submerged.

Small sized pumps: Rubber Mould system
Medium and Large sized pumps: Epoxy Potting system

B. Built-in Thermal Motor Protector

Built-in motor protection device is equipped across the full range, adopting either a Circle Thermal Protector (CTP) or a Miniature Thermal Protector (MTP) depending on the specific model required. This protects the motor against dry-running & overheating.
This built in snap action device provides the first line of defense against motor damage.

C. Dual Inside Mechanical Seal with Silicon Carbide Faces

Following many years of Tsurumi research & development including rigorous testing, the Dual Inside Mechanical Seal with Silicon Carbide face design has proven to be the most durable and effective method, providing 5x higher corrosion, wear and heat resistance than tungsten carbide options.
Both upper & lower seals are isolated in the oil chamber where a clean, non-corrosive and abrasion-free lubricating environment is maintained.

D. Air Release Valve

Fitted on the pump casing to prevent the air lock. When air flows through the valve, the ball stays at the bottom, but when the pumped water starts to flow, the ball closes the outlet because of its buoyancy.

E. Lip Seal (Oil Seal / V-ring)

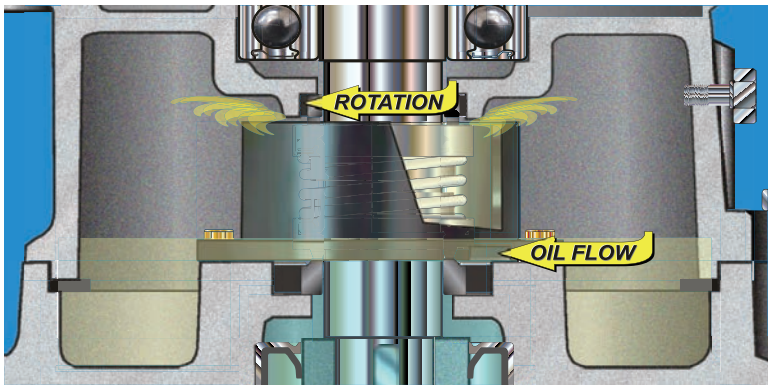
Lip seal used as a “Dust Seal” protects the mechanical seal from abrasive particles.

F. Long Lasting Bearings

Industry leading double shielded bearings with B-10 life rating of 60,000 hours. Permanently lubricated ensuring to withstand high temperatures, providing a long-lasting and reliable performance.

Oil Lifter (Designed by Tsurumi)

The Oil Lifter is a Tsurumi developed innovative device that is positioned around the mechanical seal which provides perfect lubrication to upper seal faces even if the lubricant reduces to as low as 1/3 of the rated volume, extending the lifespan of the Mechanical Seal. The combination of dual inside mechanical seal structure and oil lifter technology prevents seal damage from dry-run conditions.
Even if the pump is orientated horizontally, seal faces remain lubricated, prolonging the pump life and ensuring maximum performance while being used at any angle.



Benefits of Oil Lifter

- Simple construction & No extra energy is required
- Creates lubrication with a reduced volume of oil, even with 1/3 of the rated volume
- Possible to extend the intervals of inspection and replacement of oil twice as long as the current device. (example of the inspection cycle: from 3,000 hours to 6,000 hours*)
- Life expectancy of the mechanical seal is more than twice of what it was

Effect given by Oil Lifter

	WITHOUT Oil Lifter	WITH Oil Lifter
Inspection of Oil	Every 3000 hours	Every 6000 hours
Replacement of Oil	Every 6000 hours	Every 9000 hours
Replacement of Mechanical Seal	Every 1 year	Every 2 years

* Wastewater pump with a 4-pole motor

IMPELLERS

Channel

Semi-open Shrouded

The impeller is semi-open or shrouded type with single or two vanes. It has a wide channel extending from inlet to exit, which allows the pump to pass the solid matters from inflow to discharge with minimal blockage.

Vortex

The impeller is a vortex type. The rotation of the impeller produces a whirling, centrifugal action between the impeller and pump casing. Being coupled with a wide pump casing, even large solids and fibrous matters can be pumped out without obstruction.

Cutter

The impeller is a semi-open type with single or two vanes. A sintered tungsten carbide alloy edge is brazed on an impeller vane, and it rotates on a saw-tooth suction port of a suction cover. This mechanism allows to cut up the solid matters flowed into the impeller to discharge them.

Smashing Cutter

Tsurumi's original heart-shaped suction cover is a unique design that improves the conventional cutter pumps by powerfully crushing and finely cutting solid and fibrous matters. With the new high efficiency two blade hydraulic impeller enhances the pump performance while improving the cutting functions.
Furthermore, the extended rotating guide on the impeller prevents any waste material from clogging in the central part of the impeller and facilitates smooth transfer of the waste.

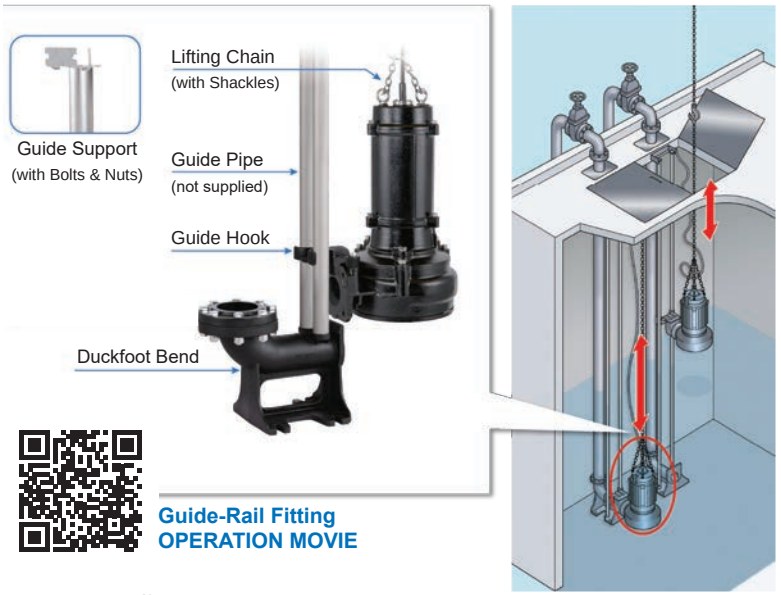
Grinder

The grinding mechanism is provided at the suction port of the pump. Flown in suspended solids are cut into small pieces and pumped out. This mechanism eliminates a fear of clogging in small diameter pipes.

Tsurumi Features

GUIDE RAIL FITTING SYSTEM

Tsurumi sewage/wastewater pump can be used in combination with a guide rail fitting system. The system connects the pump to and from the piping easily just by lowering and hoisting the pump, allowing easy maintenance and inspection without the need to enter the sump. The type of compatible guide rail fitting set varies depending on the pump model.



Guide-Rail Fitting OPERATION MOVIE

TOS

TOS set is the standard guide rail fitting system made of cast iron and is suitable for use with a cast iron pump.

TOK

TOK set is a high-quality resin made guide rail fitting system suitable for use with a small cast iron or a resin made pump. Since it is originally developed for light-weight pumps, it is specially devised to cope with a water leakage that may occur through the seal face.

TSURUMI CONNECT

SMART MONITORING & CONTROLLING

GIVE YOURSELF MORE PIECE OF MIND WITH TSURUMI CONNECT

Tsurumi's reliable pumps have been already proving the peace of mind to the users.

Tsurumi Connect Box is designed to monitor and control Tsurumi submersible pumps and different appliances. It monitors, collects, and acts to the various data such as current, flow, water level and other data from internal/external sensors to automize your operations.

Increase the security for all connected pumps and extend the lifetime even more.

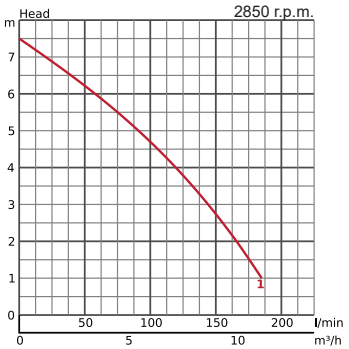
HOW DOES TSURUMI CONNECT WORK ?

www.tsurumi-connect.eu

OM / OMA

OM-series is the most compact wastewater pump. It is a 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.
Liquid paraffin is used for the lubricating oil, which widens the application of the pump to decorative waterfalls, fishponds, aquaculture etc.

Option for the automatic operation (OMA) is available.

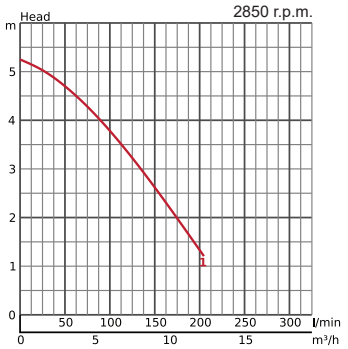


OMA OM

TECHNICAL DATA		1 OM(A)
Discharge Bore	mm	32
Motor Output	kW	0.15
Phase		Single
Starting Method		Capacitor Run
Motor Protection		Miniature Thermal
Impeller		Vortex | Glass-fibre Reinforced Resin
Solid Passage	mm	10
Voltage	V	230
Current	A	1.65
Weight	kg	5.1
Cable Length	m	10
L x W x H	mm	203 x 136 x 376

POMA

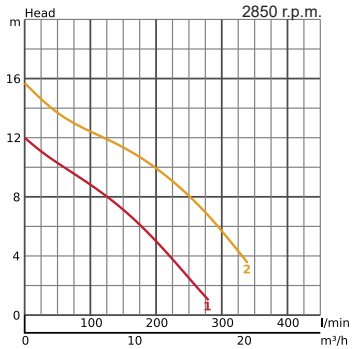
POMA-series is a submersible vortex pump with a light fibre reinforced plastic casing and head cover. The pump is abrasion and corrosion resistant, minimizing maintenance.
The pump is equipped with the float for the automatic operation.
Liquid paraffin is used for the lubricating oil, which widens the application of the pump to decorative waterfalls, fishponds, aquaculture etc.



TECHNICAL DATA		1 POMA
Discharge Bore	mm	50
Motor Output	kW	0.15
Phase		Single
Starting Method		Capacitor Run
Motor Protection		Miniature Thermal
Impeller		Vortex | Glass-fibre Reinforced Resin
Solid Passage	mm	35
Voltage	V	230
Current	A	1.65
Weight	kg	5.5
Cable Length	m	10
L x W x H	mm	203 x 198 x 376

PNI

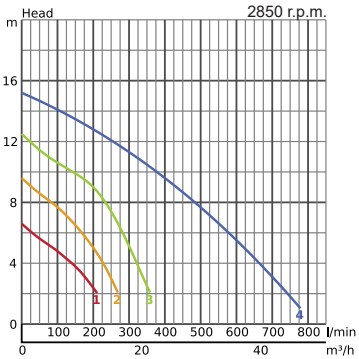
PNI-series is a submersible semi-vortex pump designed for handling wastewater and liquid carrying small solid matters. It is made of resin and 304 stainless steel and excellent in corrosion-resistance.
The semi-vortex pump design with moderate solids passage provides efficient performance for versatile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



TECHNICAL DATA		1 50PNI2.4S	2 50PNI2.75S
Discharge Bore	mm	50	
Motor Output	kW	0.4	0.75
Phase		Single	
Starting Method		Capacitor Run	
Motor Protection		Miniature Thermal	Circle Thermal
Impeller		Vortex | Glass-fibre Reinforced Resin	
Solid Passage	mm	10	
Voltage	V	230	
Current	A	2.8	5.2
Weight	kg	7.2	9.3
Cable Length	m	10	
L x W x H	mm	241 x 246 x 360	241 x 246 x 380

PU(A)

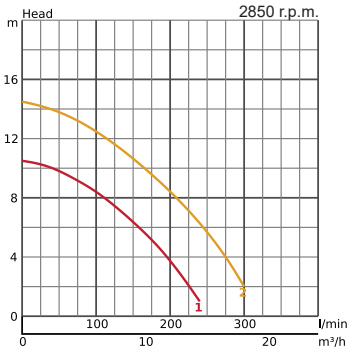
PU-series is a submersible vortex pump designed for raw sewage, wastewater, and liquid carrying solid matters. It is made of resin and 304 stainless steel and excellent in corrosion-resistance.
The vortex mechanism provides practically unchokable operation in sewage pumping.
Liquid paraffin is used for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



TECHNICAL DATA		1 50PU2.25	2 50PU(A) 2.4[S]	3 50PU(A) 2.75[S]	4 80PU21.5
Discharge Bore	mm	50			80
Motor Output	kW	0.25	0.4	0.75	1.5
Phase		Three	Three | [S: Single]		Three
Starting Method		D.O.L.	D.O.L. | [S: Capacitor Run]		D.O.L.
Motor Protection		Circle Thermal [50PU2.4S = Miniature Thermal]			
Impeller		Vortex | Glass-fibre Reinforced Resin			
Solid Passage	mm	35			46
Voltage	V	400V [S: 230V]			
Current	A	0.85	1.15 | 3.1 [S]	1.9 | 5.5 [S]	4.0
Weight (w/o float)	kg	6.1	7.0 | 7.1 [S]	8.3 | 8.9 [S]	16
Cable Length	m	10			
L x W x H	mm	236x162x349	236x162x360 (236x173x374)	236x162x380 (236x173x394)	295x196x475

SQ

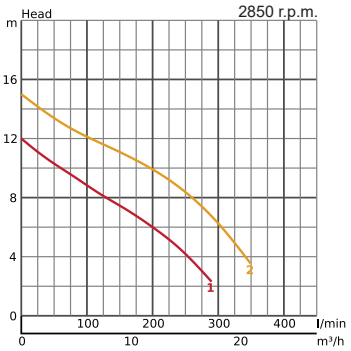
SQ-series is a submersible stainless steel drainage pump designed for handling screened wastewater or clean water. It is constructed from cast and fabricated stainless steel.
The top discharge, flow-thru design always cools the motor with the pumped media and allows the pump to operate at low water levels for extended periods.
Liquid paraffin is used for the lubricating oil, which enables the application of the SQ2-series to the food or aquaculture industry.



TECHNICAL DATA		1 50SQ2-2.4[S]	2 50SQ2-2.75
Discharge Bore	mm	50	
Motor Output	kW	0.4	0.75
Phase		Three | [S: Single]	Three
Starting Method		D.O.L. | [S: Capacitor Run]	D.O.L.
Motor Protection		Circle Thermal [S: Miniature]	Circle Thermal
Impeller		Vortex | Glass-fibre Reinforced Resin	
Solid Passage	mm	6	
Voltage	V	400V [S: 230V]	400
Current	A	1.2 | 3.0 [S]	2.2
Weight	kg	10.5	12
Cable Length	m	10	
L x W x H	mm	180 x 180 x 366	180 x 180 x 386

TM(A)

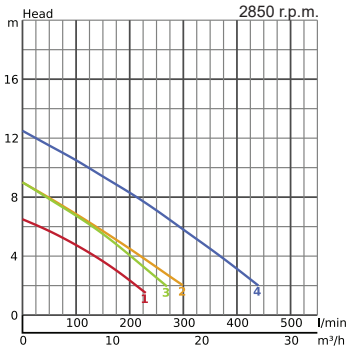
TM-series is a submersible titanium pump designed for handling seawater. It is made of resin and titanium.
Since titanium has a superb corrosion resistance against seawater, it is suitable for various applications where seawater is used.
Liquid paraffin is used for the lubricating oil, which makes it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



TECHNICAL DATA		1 50TM(A)2.4S	2 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		Miniature Thermal	Circle Thermal
Impeller		Vortex | Glass-fibre Reinforced Resin	
Solid Passage	mm	10	
Voltage	V	230	400
Current	A	3.1	1.9
Weight	kg	6.7 | (7.2)	7.8
Cable Length	m	10	
L x W x H	mm	236 x 162 x 360 (236 x 173 x 374)	236 x 162 x 374

UT

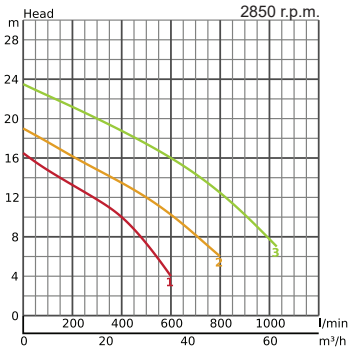
UT-series is an economical type submersible vortex pump designed for handling raw sewage and wastewater from domestic and commercial areas. Rotation of the impeller produces vortex flow in the pump casing, which allows solid matters and fibrous materials to be pumped out with minimum contact to the impeller.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



TECHNICAL DATA		1 40UT2.25[S]	2 3 50UT2.4[S]	4 50UT2.75[S]
Discharge Bore	mm	40	50	
Motor Output	kW	0.25	0.4	0.75
Phase		Three | [S: Single]		
Starting Method		D.O.L. | [S: Capacitor Run]		
Motor Protection		Circle Thermal [S: Miniature]		Circle Thermal
Impeller		Vortex | Glass-fibre Reinforced Resin		
Solid Passage	mm	35		
Voltage	V	400V [S: 230V]		
Current	A	0.9 | 2.1 [S]	1.2 | 2.8 [S]	2.0 | 5.0 [S]
Weight	kg	13.5 | 14 [S]		16 | 17 [S]
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

U

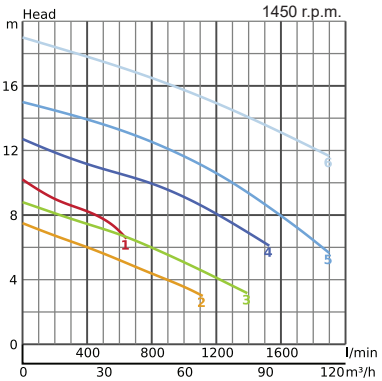
U-series is a 2-pole-motor-based, compact type submersible vortex pump designed for handling raw sewage, wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum 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.

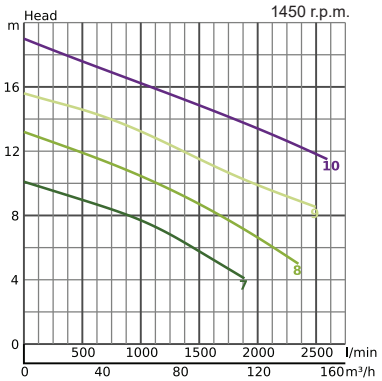


TECHNICAL DATA		1 80U21.5	2 80U22.2	3 80U23.7
Discharge Bore	mm	80		
Motor Output	kW	1.5	2.2	3.7
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle Thermal		
Impeller		Vortex | Grey Iron Casting		
Solid Passage	mm	46	56	
Voltage	V	400		
Current	A	3.6	5	8
Weight	kg	36	51	58
Cable Length	m	10		
L x W x H	mm	420 x 202 x 499	502 x 234 x 565	502 x 234 x 565

UZ

UZ-series is a 4-pole-motor-based, middle-sized 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.
The UZ-series is capable of handling the maximum solid size that is equivalent to its discharge bore.



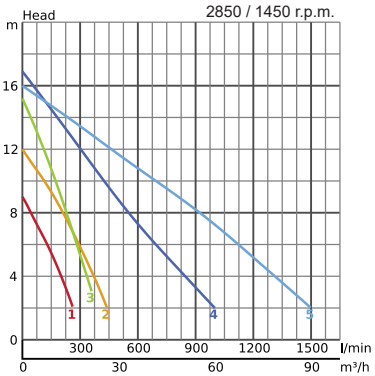


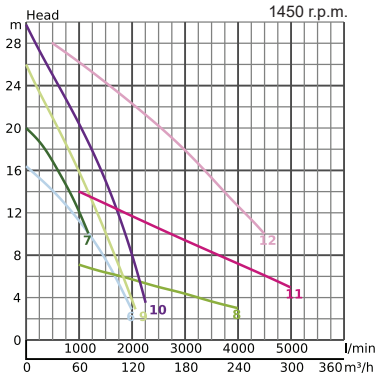
TECHNICAL DATA		1 50UZ41.5 2 80UZ41.5	3 80UZ42.2	4 80UZ43.7 7 100UZ43.7
Discharge Bore	mm	50 | 80	80	80 | 100
Motor Output	kW	1.5	2.2	3.7
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		CircleThermal		
Impeller		Vortex | Grey Iron Casting		
Solid Passage	mm	50 | 80	80	80 | 100
Voltage	V	400		
Current	A	4	5	7.9
Weight	kg	52 | 66	66	72 | 79
Cable Length	m	10		
L x W x H	mm	405 x 248 x 566 531 x 261 x 637	531 x 261 x 637	557 x 291 x 688 627 x 314 x 737

TECHNICAL DATA		5 80UZ45.5 8 100UZ45.5	6 80UZ47.5 9 100UZ47.5	10 100UZ411
Discharge Bore	mm	80 | 100	80 | 100	100
Motor Output	kW	5.5	7.5	11
Phase		Three		
Starting Method		D.O.L.		Star-Delta
Motor Protection		Circle Thermal		Miniature Thermal
Impeller		Vortex | Grey Iron Casting		
Solid Passage	mm	80 | 100	80 | 100	100
Voltage	V	400		
Current	A	12.1	16.4	23.4
Weight	kg	122 | 138	132 | 144	186
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

B

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.



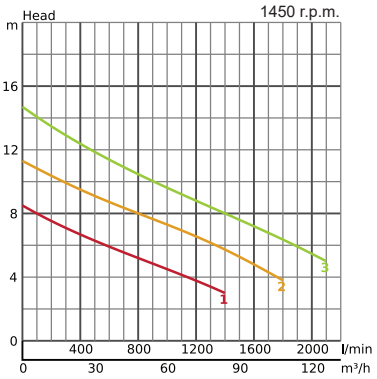


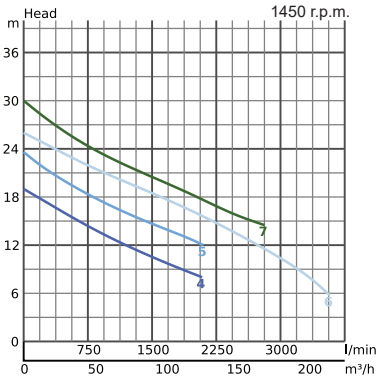
TECHNICAL DATA		1 50B2.4	2 50B2.75 3 50B2.75H	4 80B21.5	5 100B42.2
Discharge Bore	mm	50		80	100
Motor Output	kW	0.4	0.75	1.5	2.2
Phase		Three			
Starting Method		D.O.L.			
Motor Protection		Circle Thermal			
Impeller		Channel | Grey Iron Casting			
Solid Passage	mm	35 x 22	45 x 20 21 x 25	49 x 41	47 x 53
Voltage	V	400			
Current	A	1.1	1,9	3.6	5
Weight	kg	23	25	36	70
Cable Length	m	10			
L x W x H	mm	340 x 220 x 420	405 x 250 x 439 405 x 250 x 415	446 x 250 x 536	596 x 324 x 616

TECHNICAL DATA		6 100B43.7 8 150B43.7	7 100B43.7H	9 100B45.5	10 100B47.5 11 150B47.5L	12 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				Miniature
Impeller		Channel | Grey Iron Casting				
Solid Passage	mm	81 x 53	35 x 62	40 x 51	40 x 61 60	75
Voltage	V	400				
Current	A	7.9		12.1	16.4	30.9
Weight	kg	86 | 145	84	140	154 | 185	266
Cable Length	m	10				
L x W x H	mm	601x333x690 871x486x875	603x344x666	686x410x908	686x410x929 871x486x1085	895x490x1167

BZ

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.

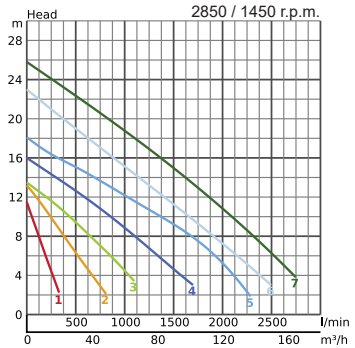


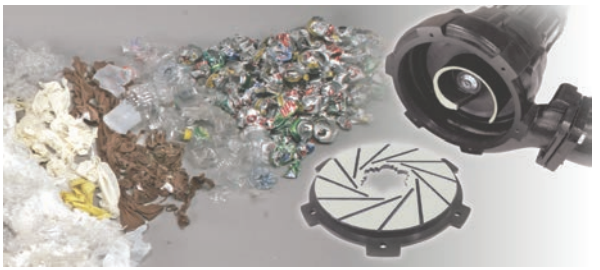


TECHNICAL DATA		1 80BZ41.5	2 100BZ42.2	3 100BZ43.7
Discharge Bore	mm	80	100	
Motor Output	kW	1.5	2.2	3.7
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle Thermal		
Impeller		Channel | Grey Iron Casting		
Solid Passage	mm	80		
Voltage	V	400		
Current	A	4	5.3	7.9
Weight	kg	78	80	100
Cable Length	m	10		
L x W x H	mm	523 x 273 x 631	551 x 273 x 631	585 x 289 x 681

TECHNICAL DATA		4 100BZ45.5	5 100BZ47.5	6 100BZ411	7 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		Miniature Thermal	
Impeller		Channel | Grey Iron Casting			
Solid Passage	mm	80			
Voltage	V	400			
Current	A	12.1	16.4	23.4	
Weight	kg	168	179	214	
Cable Length	m	10			
L x W x H	mm	716 x 421 x 924	716 x 421 x 945	727 x 431 x 1023	

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.



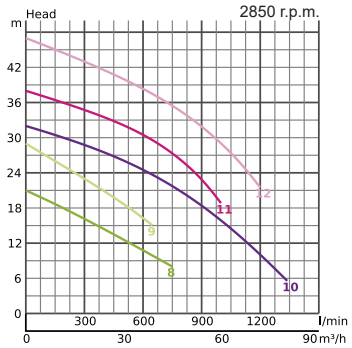


TECHNICAL DATA		1 50C2.75[S]	2 80C21.5	3 100C42.2
Discharge Bore	mm	50	80	100
Motor Output	kW	0.75	1.5	2.2
Phase		Three [S: Single]	Three	
Starting Method		D.O.L. [S:Capacitor]	D.O.L.	
Motor Protection		Circle Thermal		
Impeller		1 Channel | Grey Iron Casting + Tungsten Alloy Tip		
Solid Passage	mm	31 x 27	43 x 60	67 x 56
Voltage	V	400 [S: 230]	400	
Current	A	1.9 [S: 6.7]	3.6	5
Weight	kg	24 [S: 32]	36	70
Cable Length	m	10		
L x W x H	mm	405 x 250 x 415 [405 x 250 x 523]	446 x 250 x 536	596 x 324 x 616

TECHNICAL DATA		4 100C43.7	5 100C45.5	6 100C47.5	7 100C411
Discharge Bore	mm	100			
Motor Output	kW	3.7	5.5	7.5	11
Phase		Three			
Starting Method		D.O.L.			Star-Delta
Motor Protection		Circle Thermal			Miniature Thermal
Impeller		1 Channel | Grey Iron Casting + Tungsten Alloy Tip			
Solid Passage	mm	70 x 81	82 x 68	76 x 69	82 x 75
Voltage	V	400			
Current	A	7.9	12.1	16.4	23.4
Weight	kg	86	133	144	179
Cable Length	m	10			
L x W x H	mm	601x333x690	686x410x908	686x410x929	709x436x1000

C-CR

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		8 80C22.2-CR	9 80C23.7-CR	10 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		2 Channel | Grey Iron Casting + Tungsten Alloy Tip		
Solid Passage	mm	22 x 31		29 x 23
Voltage	V	400		
Current	A	5.4	8	11.6
Weight	kg	70	70	120
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

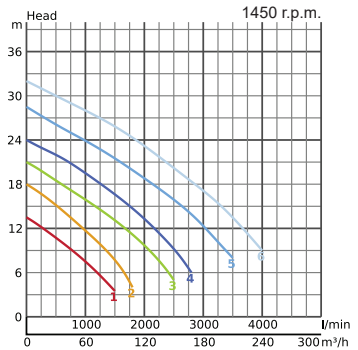
TECHNICAL DATA		11 80C27.5-CR	12 80C211-CR
Discharge Bore	mm	80	
Motor Output	kW	7.5	11
Phase		Three	
Starting Method		D.O.L.	Star-Delta
Motor Protection		Circle Thermal	Miniature Thermal
Impeller		2 Channel | Grey Iron Casting + Tungsten Alloy Tip	
Solid Passage	mm	26 x 25	26 x 26
Voltage	V	400	
Current	A	14.9	23
Weight	kg	125	147
Cable Length	m	10	
L x W x H	mm	615 x 345 x 879	615 x 345 x 927

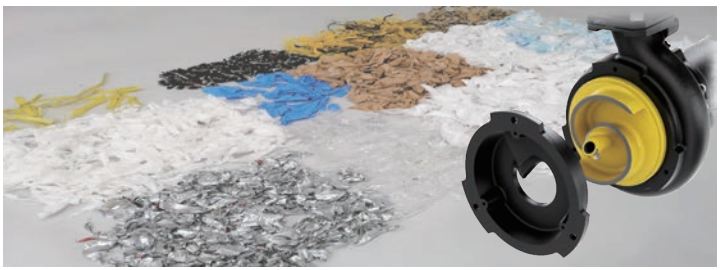
CZ

VIDEO
Smashing Cutter Pumps

CZ-series is a smasher pump equipped with an innovative scissor-like mechanism that provides enhanced solid handling capabilities. A unique design of a heart-shaped suction cover equipped with a sharp-edged stationary blade along with an improved semi-open channel impeller and two sharp-edged vanes. It prevents pump clogging through crushing and cutting of solid objects.
In addition to that, the extended rotating guide equipped on the impeller prevents retention of solid waste at the central part of the impeller, thereby providing a smooth pumping operation.

ATEX version available (CZX)





TECHNICAL DATA		1 100CZ42.2	2 100CZ43.7	3 100CZ45.5
Discharge Bore	mm	100		
Motor Output	kW	2.2	3.7	5.5
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Circle Thermal		
Impeller		Channel with Sharp-edged Vanes | Ductile Iron Casting		
Solid Passage	mm	30		35
Voltage	V	400		
Current	A	4.8	8.3	12.1
Weight	kg	81	92	166
Cable Length	m	10		
L x W x H	mm	629 x 341 x 658	629 x 341 x 708	685 x 410 x 930

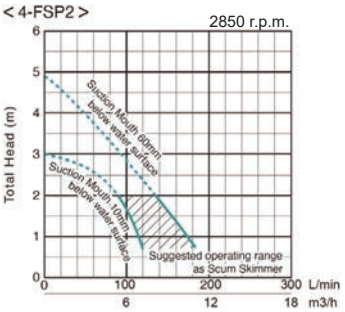
TECHNICAL DATA		4 100CZ47.5	5 100CZ411	6 100CZ415
Discharge Bore	mm	100		
Motor Output	kW	7.5	11	15
Phase		Three		
Starting Method		D.O.L.	Star-Delta	
Motor Protection		Circle Thermal	Miniature Thermal	
Impeller		Channel with Sharp-edged Vanes | Ductile Iron Casting		
Solid Passage	mm	35	41	
Voltage	V	400		
Current	A	16.4	23.4	30.9
Weight	kg	174	231	247
Cable Length	m	10		
L x W x H	mm	685 x 410 x 911	722 x 438 x 1000	722 x 438 x 1070

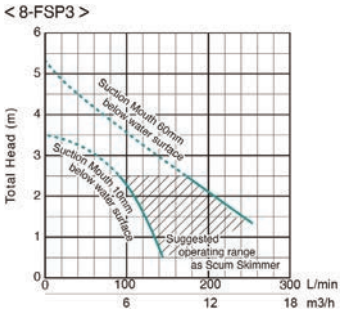
FSP

VIDEO
Scum Skimmer

BER

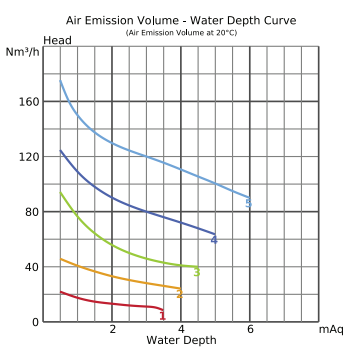
FSP-series is a floating scum skimmer designed for the collection of floating scum in the wastewater treatment. It consists of a submersible pump, jet-injector mechanism, and three floats. The jet-injector mechanism ensures stable suction operation even if water, air and scum are drawn simultaneously.
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 suck scum with minimal amount of water.

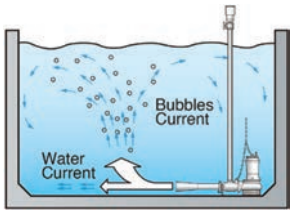




TECHNICAL DATA		4-FSP	8-FSP
Discharge Bore	mm	50	
Motor Output	kW	0.4	0.75
Phase		Three	
Starting Method		D.O.L.	
Motor Protection		CircleThermal	
Impeller		Channel | Grey Iron Casting	
Solid Passage	mm	16	22
Voltage	V	400	
Current	A	1.1	1.9
Weight	kg	36	38
Cable Length	m	10	
L x W x H	mm	839 x 824 x 600	

BER-series is a submersible self-aspirating jet aerators combined a submersible pump with a venturi-jet based diffuser. The liquid flow generated by the submerged pump causes negative pressure to form around the nozzle, whereby drawing in air from above the water's surface. With this jet injector mechanism, the aspirated air mixes with water and ejected through the diffuser, simultaneously agitating and aerating the ponded water. The mixed air-water is ejected powerfully in one direction, which effectively agitates the water across a wide area.





TECHNICAL DATA		1 8-BER	2 15-BER	3 22-BER	4 37-BER	5 55-BER
Air Suction 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		CircleThermal				
Impeller		Channel | Grey Iron Casting				
Solid Passage	mm	20		35		
Voltage	V	400				
Current	A	1.9	3.6	5	7.9	12.1
Weight	kg	28	43	75	91	142
Cable Length	m	10				
L x W x H	mm	674x194x464	895x222x562	1158x316x679	1163x325x753	1415x391x942

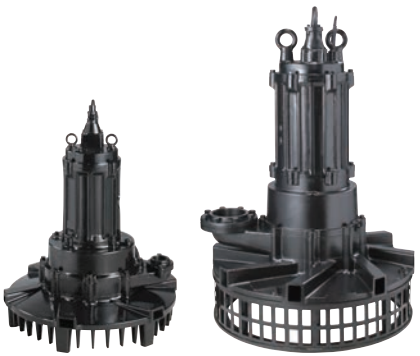
TRN

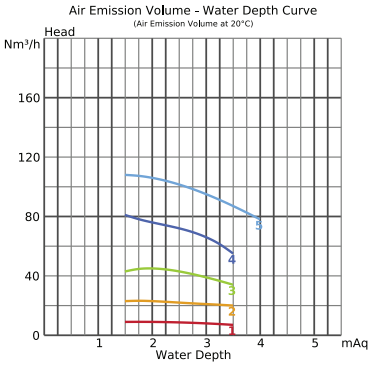
TRN-series is a submersible self-aspirating aerator designed for aeration and mixing of wastewater. The liquid flow generated by Tsurumi's special semi-open impeller causes negative pressure to form on the backside of the impeller vanes and draw in air from above the water's surface. The aspirated air, mixed with water viciously by mechanical forces inside the impeller and guide vane, transforms into tiny bubbles. Moreover, the mixed flow of air and water is evenly discharged in multiple directions along the circumference. The compounded action of the air lift and convective currents that are generated in the process makes aeration and agitation very efficient and increases the amount of oxygen dissolved in the water.

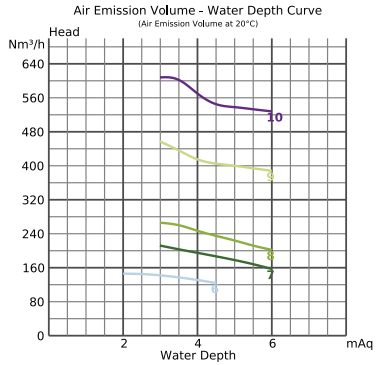
(OPTIONAL)

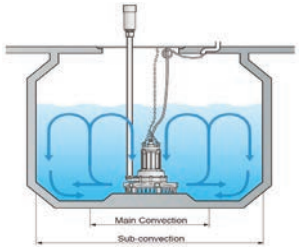
FL version for DAF application

From 0.75kW to 3.7kW, **TRN-FL version** is available for Dissolved Air Flotation (DAF) application. This special version creates fine bubbles suitable for separation / flotation effect.









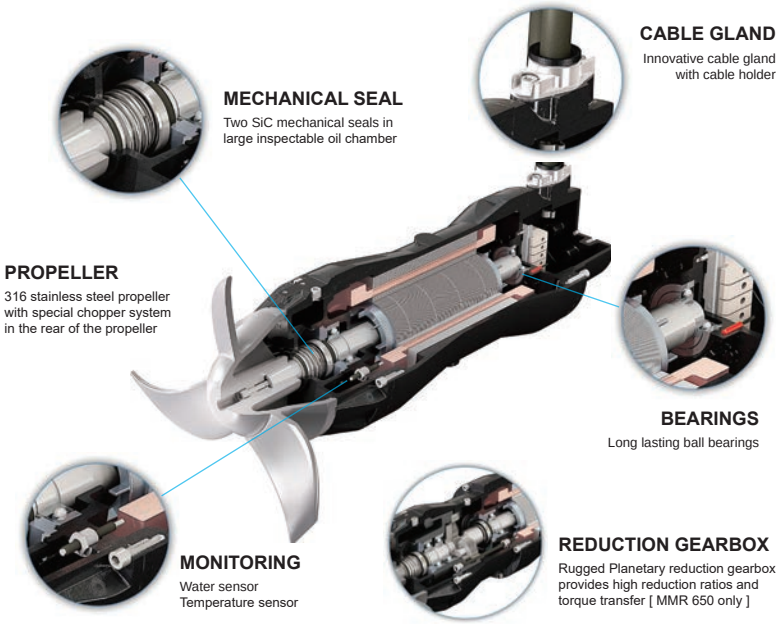
TECHNICAL DATA		1 32TRN2.75 (-FL)	2 32TRN21.5 (-FL)	3 50TRN42.2 (-FL)	4 50TRN43.7 (-FL)	5 50TRN45.5
Air Suction Pipe	mm	32		50		
Motor Output	kW	0.75	1.5	2.2	3.7	5.5
Phase		Three				
Starting Method		D.O.L.				
Motor Protection		Circle Thermal				
Impeller		Patented Semi-Open | Stainless Steel Casting				
Solid Passage	mm	10	12			15
Voltage	V	400				
Current	A	2.5	3.7	5.3	8.6	12.1
Weight	kg	55		140	150	
Cable Length	m	10				
L x W x H	mm	420x400x473		700x700x689	700x700x694	700x700x835

TECHNICAL DATA		6 80TRN47.5	7 80TRN412	8 80TRN417	9 100TRN424	10 150TRN440
Air Suction Pipe	mm	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	Miniature Thermal			
Impeller		Patented Semi-Open | Stainless Steel Casting				
Solid Passage	mm	15			22	25
Voltage	V	400				
Current	A	16.4	24.7	34.7	48	80
Weight	kg	175	192	213	435	583
Cable Length	m	10				
L x W x H	mm	700x700x868	700x700x898	700x700x958	1000x1000x1225	1050x1000x1482

MMR

MMR submersible mixers are adoptable for single or multiple installations, or in combination with bottom aeration systems (e.g. TRN aerators), depending on the process. Since it is equipped with IE3 premium efficiency motors, running costs are kept down with low energy use and limited maintenance. High compatibility allows for flexible installation at any point of tanks, both for optimal mixing and for use as replacements for obsolete devices in existing systems.

*** For detailed specifications, please refer to the MMR data booklet.**

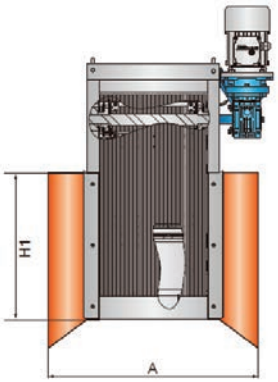


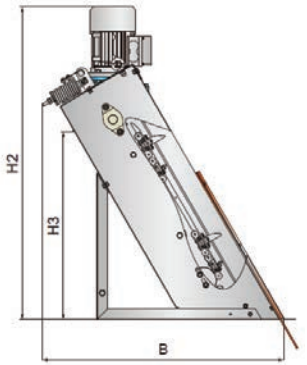
TECHNICAL DATA		MMR 200 series	MMR 300 series
Propeller Dia.	mm	200	300
Motor Output	kW	0.75 ~ 1.5	1.5 ~ 3.2
Phase		Three	
Pole		4	6
Propeller Rotation	r.p.m.	1450	960
Starting Method		D.O.L.	
Motor Protection		Miniature Thermal	
Voltage	V	400	
Current	A	1.8 ~ 3.6	3.7 ~ 7.1
Propeller		316 Stainless Steel	
Propeller Thrust	N	165 ~ 230	350 ~ 820
Cable Length	m	10	

TECHNICAL DATA		MMR 400 series	MMR 650 series
Propeller Dia.	mm	400	650
Motor Output	kW	3.0 ~ 4.5	4.0 ~ 7.5
Phase		Three	
Pole		8	4
Propeller Rotation	r.p.m.	750	200 ~ 300 [Reduction Gear]
Starting Method		D.O.L.	
Motor Protection		Miniature Thermal	
Voltage	V	400	
Current	A	7.3 ~ 10.6	8.4 ~ 14.5
Propeller		316 Stainless Steel	
Propeller Thrust	N	685 ~ 1060	1025 ~ 2100
Cable Length	m	10	

KW

KW-series is a front screen type automatic bar screen designed for screening wastewater. All wetted part constructed from 304 stainless steel material.
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.



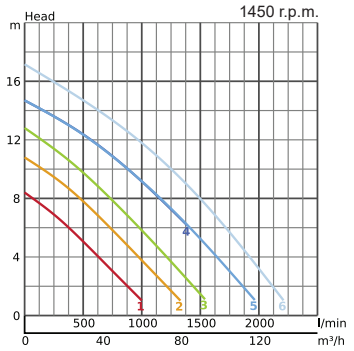


TECHNICAL DATA		KW-4027	KW-4038	KW-4049	KW-5027
Motor Output	kW	0.09			
Installation Angle		60°			
Bar spacing (mm) | Capacity m3/h	(1.0)	17	27	39	26
	(2.0)	29	45	66	45
	(2.5)	34	52	76	52
	(5.0)	47	73	105	73
Height - mm	H1	279	395	511	279
	H2	659	842	1057	659
	H3	323	506	722	323
Width Waterway	A	up to 400			400 ~ 500
Length	B	544	650	774	544
Weight	kg	23.5	27.8	31.8	27.0

TECHNICAL DATA		KW-5038	KW-5049	KW-6027	KW-6038	KW-6049
Motor Output	kW	0.09				
Installation Angle		60°				
Bar spacing (mm) | Capacity m3/h	(1.0)	41	60	36	56	81
	(2.0)	69	101	61	95	138
	(2.5)	81	117	70	109	158
	(5.0)	113	164	98	153	223
Height - mm	H1	395	511	279	395	511
	H2	842	1057	659	842	1057
	H3	506	722	323	506	722
Width Waterway	A	400 ~ 500		500 ~ 600		
Length	B	650	774	544	650	774
Weight	kg	32.1	37.1	30.5	36.5	42.3

UYZM - DN80 -

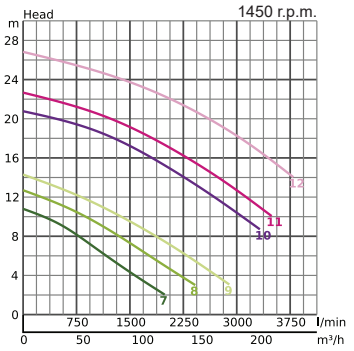
UYZM-series is a 4-pole-motor-based, wet-well submersible vortex pump designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which allows those foreign matters to be pumped out with minimum 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.



TECHNICAL DATA		1 80UYZM41.3 2 80UYZM42.6L	3 80UYZM42.6 4 80UYZM43.7H	5 80UYZM45.0 6 80UYZM46.5
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.		Star-Delta
Motor Protection		Miniature Thermal		
Impeller		Vortex | Grey Iron Casting		
Solid Passage	mm	80		
Voltage	V	400		
Current	A	3.3 | 6.2	6.2 | 7.5	9.9 | 13.1
Weight	kg	64.7 | 73.0	73.1 | 108.4	112.3 | 115.1
Cable Length	m	10		
Option				

UYZM - DN100 -

UYZM-series UYZM-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.

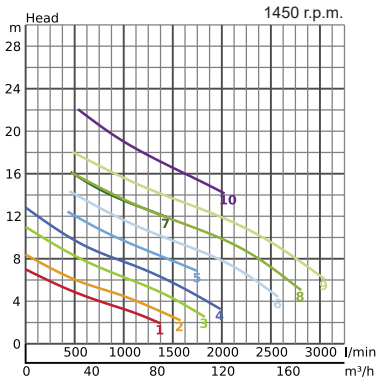


*** Optional**
Dry installation version (UYZMK)

TECHNICAL DATA		7 100UYZM43.2 8 100UYZM45.0	9 100UYZM46.5 10 100UYZM412.2	11 100UYZM414.6 12 100UYZM419.3
Discharge Bore	mm	100		
Motor Output	kW	3.2 | 5.0	6.5 | 12.2	14.6 | 19.3
Phase		Three		
Starting Method		D.O.L. | Star-Delta	Star-Delta	
Motor Protection		Miniature Thermal		
Impeller		Vortex | Grey Iron Casting		
Solid Passage	mm	100		
Voltage	V	400		
Current	A	7.3 | 9.9	13.1 | 23.0	28.8 | 36.5
Weight	kg	81.0 | 117.2	119.8 | 198.0	198.9 | 222.2
Cable Length	m	10		
Option		[K] Cooling-Jacket (12.2-19.3kW only)		

BYM - DN100 -

100BYM-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.



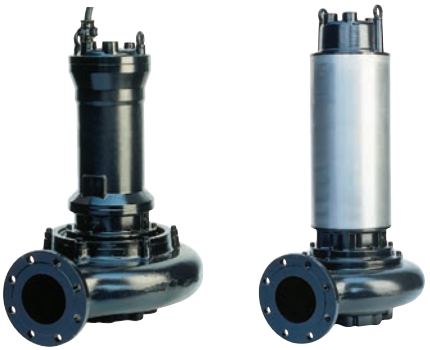
TECHNICAL DATA		1 100BYM41.3	2 100BYM42.6LL 3 100BYM42.6L	4 100BYM42.6
Discharge Bore	mm	100		
Motor Output	kW	1.3	2.6	2.6
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Miniature Thermal		
Impeller		1 Channel | Grey Iron Casting		
Solid Passage	mm	80		
Voltage	V	400		
Current	A	3.3	6.2	6.2
Weight	kg	80.7	81.0 | 86.3	86.3
Cable Length	m	10		
Option				

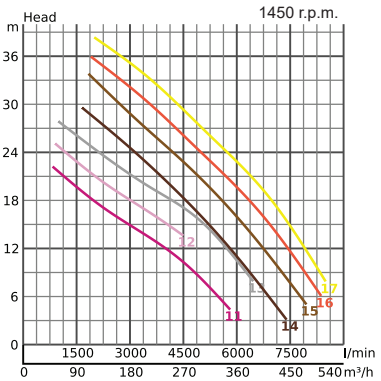
TECHNICAL DATA		5 100BYM42.9	6 100BYM43.7 7 100BYM43.7H	8 100BYM45.0	9 100BYM46.5 10 100BYM46.5H
Discharge Bore	mm	100			
Motor Output	kW	2.9	3.7	5.0	6.5
Phase		Three			
Starting Method		D.O.L.		Star-Delta	
Motor Protection		Miniature Thermal			
Impeller		1 Channel | Grey Iron Casting			
Solid Passage	mm	80			
Voltage	V	400			
Current	A	5.8	7.5	9.9	13.1
Weight	kg	117.9	119.2	127.0	129.6 | 147.9
Cable Length	m	10			
Option					

BYM - DN150 -

150BYM-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.

*** Optional**
Dry installation (BYMK)





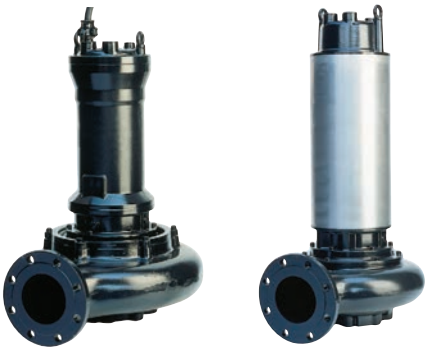
TECHNICAL DATA		11 150BYM412.2	12 150BYM414.6	13 150BYM419.3
Discharge Bore	mm	150		
Motor Output	kW	12.2	14.6	19.3
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Miniature Thermal		
Impeller		1 Channel | Grey Iron Casting		
Solid Passage	mm	100		
Voltage	V	400		
Current	A	23.0	28.8	36.5
Weight	kg	227.0	227.0	249.0
Cable Length	m	10		
Option		[K] Cooling-Jacket		

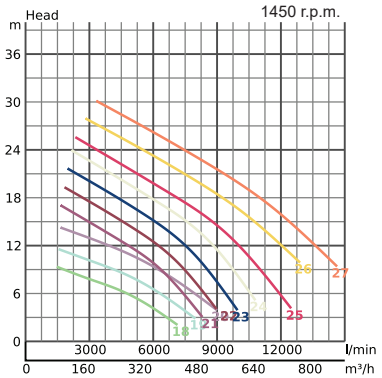
TECHNICAL DATA		14 150BYM422	15 150BYM425.6	16 150BYM429.2	17 150BYM433
Discharge Bore	mm	150			
Motor Output	kW	22.0	25.6	29.2	33.0
Phase		Three			
Starting Method		Star-Delta			
Motor Protection		Miniature Thermal			
Impeller		1 Channel | Grey Iron Casting			
Solid Passage	mm	100			
Voltage	V	400			
Current	A	44.0	51.4	59.0	67.1
Weight	kg	403.1	434.9	452.0	451.4
Cable Length	m	10			
Option		[K] Cooling-Jacket			

BYM - DN200 -

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. A wide opening channel impeller allows the pump to handle solid matter up to 100mm.

*** Optional**
Dry installation (BYMK)





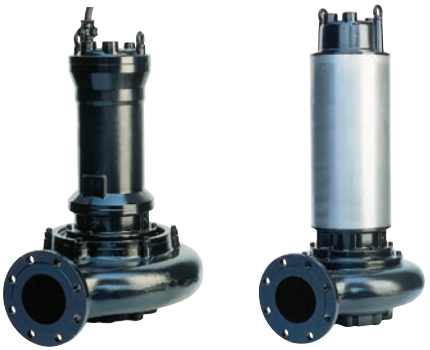
TECHNICAL DATA		18 200BYM67.3 19 200BYM610	20 200BYM613.6 21 200BYM616.8
Discharge Bore	mm	200	
Motor Output	kW	7.3 | 10.0	13.6 | 16.8
Phase		Three	
Starting Method		Star-Delta	
Motor Protection		Miniature Thermal	
Impeller		2 Channel | Grey Iron Casting	
Solid Passage	mm	100	
Voltage	V	400	
Current	A	16.3 | 22.4	29.4 | 36.4
Weight	kg	308.8 | 327.8	339.5 | 485.8
Cable Length	m	10	
Option		[K] Cooling-Jacket	

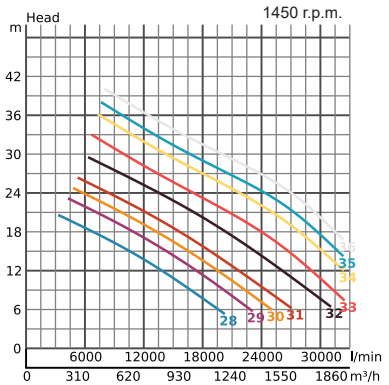
TECHNICAL DATA		22 200BYM619.5 23 200BYM622.6	24 200BYM625.8 25 200BYM633.2	26 200BYM640.5 27 200BYM649.5
Discharge Bore	mm	200		
Motor Output	kW	19.5 | 22.6	25.8 | 33.2	40.5 | 49.5
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Miniature Thermal		
Impeller		2 Channel | Grey Iron Casting		
Solid Passage	mm	100		
Voltage	V	400		
Current	A	41.2 | 48.3	55.5 | 67.5	82.1 | 99.7
Weight	kg	500.8 | 526.5	531.4 | 670.7	909.3 | 932.0
Cable Length	m	10		
Option		[K] Cooling-Jacket		

BYM - DN300 -

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. A wide opening channel impeller allows the pump to handle solid matter up to 150mm.

*** Optional**
Dry installation version (BYMK)



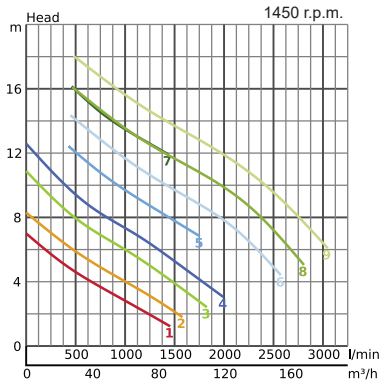


TECHNICAL DATA		28 300BYM640.5	29 300BYM649.5 / 30 300BYM658
Discharge Bore	mm	300	
Motor Output	kW	40.5	49.5 | 58.0
Phase		Three	
Starting Method		Star-Delta	
Motor Protection		Miniature Thermal	
Impeller		2 Channel | Grey Iron Casting	
Solid Passage	mm	150	
Voltage	V	400	
Current	A	82.1	99.7 | 118.0
Weight	kg	1000.2	1022.8 | 1069.3
Cable Length	m	10	
Option		[K] Cooling-Jacket	

TECHNICAL DATA		31 300BYM668.5 / 32 300BYM682	33 300BYM698 / 34 300BYM6112	35 300BYM6132 / 36 300BYM6160
Discharge Bore	mm	300		
Motor Output	kW	68.5 | 82.0	98.0 | 112.0	132.0 | 160.0
Phase		Three		
Starting Method		Star-Delta		D.O.L.
Motor Protection		Miniature Thermal		
Impeller		2 Channel | Grey Iron Casting		
Solid Passage	mm	150		
Voltage	V	400		
Current	A	138.0 | 166.0	196.0 | 227.0	241.0 | 287.0
Weight	kg	1279.3 | 1329.7	1548.2 | 1601.0	1830.0 | 1980.0
Cable Length	m	10		
Option		[K] Cooling-Jacket		

BYZM - DN80 -

80BYZM-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.



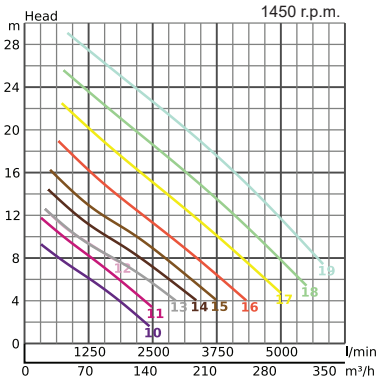
TECHNICAL DATA		1 80BYZM41.3	2 80BYZM42.6LL / 3 80BYZM42.6L
Discharge Bore	mm	80	
Motor Output	kW	1.3	2.6
Phase		Three	
Starting Method		D.O.L.	
Motor Protection		Miniature Thermal	
Impeller		1 Channel | Grey Iron Casting	
Solid Passage	mm	80	
Voltage	V	400	
Current	A	3.3	6.2
Weight	kg	80.7	81.0 | 89.5
Cable Length	m	10	
Option			

TECHNICAL DATA		4 80BYZM42.6 / 5 80BYZM42.9	6 80BYZM43.7 / 7 80BYZM43.7H	8 80BYZM45.0 / 9 80BYZM46.5
Discharge Bore	mm	80		
Motor Output	kW	2.6 | 2.9	3.7	5.0 | 6.5
Phase		Three		
Starting Method		D.O.L.		Star-Delta
Motor Protection		Miniature Thermal		
Impeller		1 Channel | Grey Iron Casting		
Solid Passage	mm	80		
Voltage	V	400		
Current	A	6.2 | 5.8	7.5	9.9 | 13.1
Weight	kg	89.5 | 116.9	118.2	126.0 | 128.6
Cable Length	m	10		
Option				

BYZM - DN100 -

100BYZM-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.

*** Optional**
Dry installation version (BYZMK)



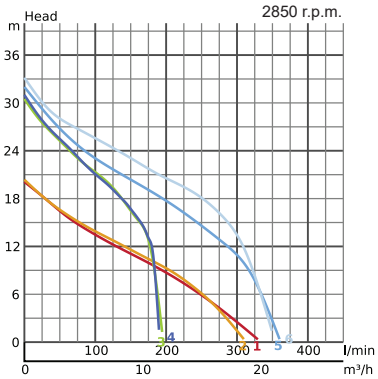
TECHNICAL DATA		10 100BYZM42.9 11 100BYZM43.7	12 100BYZM43.7H 13 100BYZM45.0L
Discharge Bore	mm	100	
Motor Output	kW	2.9 | 3.7	3.7 | 5.0
Phase		Three	
Starting Method		D.O.L.	D.O.L. | Star-Delta
Motor Protection		Miniature Thermal	
Impeller		1 Channel | Grey Iron Casting	
Solid Passage	mm	100	
Voltage	V	400	
Current	A	5.8 | 7.5	7.5 | 9.9
Weight	kg	120.6 | 124.7	131.5 | 139.3
Cable Length	m	10	
Option			

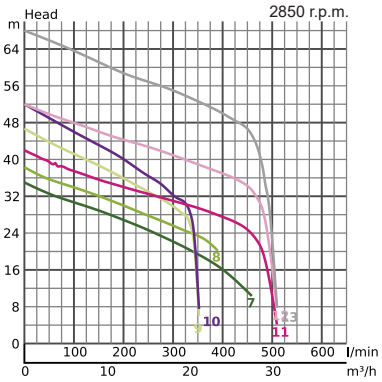
TECHNICAL DATA		14 100BYZM45.0 15 100BYZM46.5	16 100BYZM412.2L 17 100BYZM412.2	18 100BYZM414.6 19 100BYZM419.3
Discharge Bore	mm	100		
Motor Output	kW	5.0 | 6.5	12.2	14.6 | 19.3
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Miniature Thermal		
Impeller		1 Channel | Grey Iron Casting		
Solid Passage	mm	100		
Voltage	V	400		
Current	A	9.9 | 13.1	23.0	28.8 | 36.5
Weight	kg	139.3 | 138.6	209.0	209.0 | 231.0
Cable Length	m	10		
Option		[K] Cooling-Jacket (12.2-19.3kW only)		

GY

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.

*** Optional**
Moisture Sensor version (GYM)



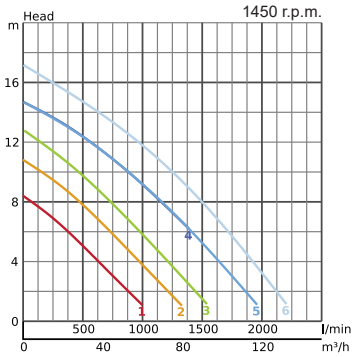


TECHNICAL DATA		1 50GY2.9	2 50GY21.1S 3 50GY21.5S	4 50GY21.6	5 50GY21.8S	6 50GY21.9
Discharge Bore	mm	50				
Motor Output	kW	0.9	1.1 | 1.5	1.6	1.8	1.9
Phase		Three	Single	Three	Single	Three
Starting Method		D.O.L.	Capacitor	D.O.L.	Capacitor	D.O.L.
Motor Protection		Miniature Thermal				
Impeller		Grinder				
Solid Passage	mm					
Voltage	V	400	230	400	230	400
Current	A	2.5	7.5 | 9.5	3.5	11.5	4.4
Weight	kg	32.9	31.7 | 38.4	38.3	38.5	38.5
Cable Length	m	10				
Option						

TECHNICAL DATA		7 50GY23.1 8 50GY23.1H	9 50GY23.7	10 50GY24.4	11 50GY26.4 12 50GY26.4H	13 50GY29.5
Discharge Bore	mm	50				
Motor Output	kW	3.1	3.7	4.4	6.4	9.5
Phase		Three				
Starting Method		D.O.L.				
Motor Protection		Miniature Thermal				
Impeller		Grinder				
Solid Passage	mm					
Voltage	V	400				
Current	A	6.4	7.5	8.7	13.0	18.8
Weight	kg	45.9	57.4	57.7	107.2 | 107.4	110.3
Cable Length	m	10				
Option		[M] Moisture Sensor (6.4-9.5kW only)				

UPZM - DN80 -

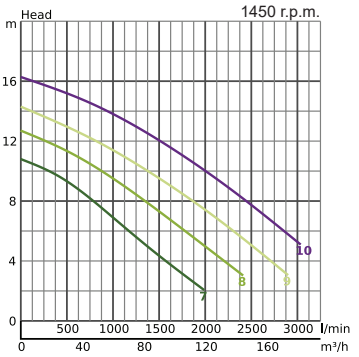
UPZM-series is a 4-pole-motor-based, wet/dry-well submersible vortex pump, equipped with premium efficiency of IE3 class motor, designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which 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.



TECHNICAL DATA		1 80UPZM42.9LL 2 80UPZM42.9L	3 80UPZM42.9 4 80UPZM43.7H	5 80UPZM45.0 6 80UPZM46.5
Discharge Bore	mm	80		
Motor Output	kW	2.9	2.9 | 3.7	5.0 | 6.5
Phase		Three		
Starting Method		D.O.L.		Star-Delta
Motor Protection		Miniature Thermal		
Impeller		Vortex | Grey Iron Casting		
Solid Passage	mm	80		
Voltage	V	400		
Current	A	5.9	5.9 | 7.3	10.2 “ 13.4
Weight	kg	116.2	116.2 | 115.8	120.8 | 141.8
Cable Length	m	10		
Option				

UPZM - DN100 -

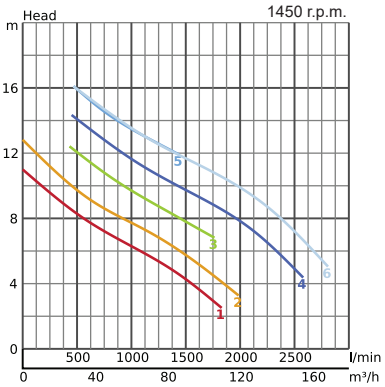
UPZM-series is a 4-pole-motor-based, wet/dry-well submersible vortex pump, equipped with premium efficiency of IE3 class motor, designed for handling raw sewage and wastewater and liquid carrying solid matters and fibrous materials. Rotation of the impeller produces vortex flow in the pump casing, which 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.

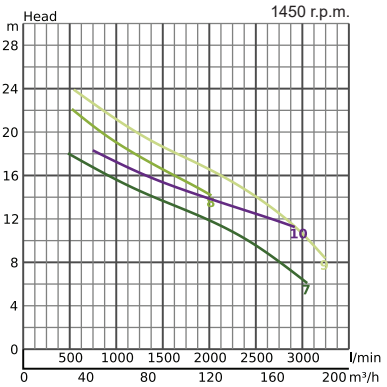


TECHNICAL DATA		7 100UPZM43.7	8 100UPZM45.0	9 100UPZM46.5	10 100UPZM48.5
Discharge Bore	mm	100			
Motor Output	kW	3.7	5.0	6.5	8.5
Phase		Three			
Starting Method		D.O.L.	Star-Delta		
Motor Protection		Miniature Thermal			
Impeller		Vortex | Grey Iron Casting			
Solid Passage	mm	100			
Voltage	V	400			
Current	A	7.3	10.2	13.4	16.8
Weight	kg	118.5	125.7	146.4	146.6
Cable Length	m	10			
Option					

BPM

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 also in dry-well application.
A wide opening channel impeller allows the pump to handle solid matter up to 80 - 100 mm.



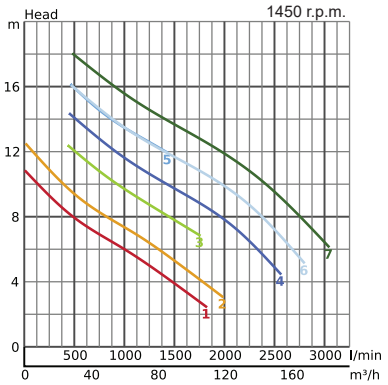


TECHNICAL DATA		1 100BPM42.9LL 2 100BPM42.9L	3 100BPM42.9 4 100BPM43.7
Discharge Bore	mm	100	
Motor Output	kW	2.9	2.9 | 3.7
Phase		Three	
Starting Method		D.O.L.	
Motor Protection		Miniature Thermal	
Impeller		1 Channel | Grey Iron Casting	
Solid Passage	mm	80	
Voltage	V	400	
Current	A	5.9	5.9 | 7.3
Weight	kg	130.0	135.0
Cable Length	m	10	
Option			

TECHNICAL DATA		5 100BPM43.7H 6 100BPM45.0	7 100BPM46.5 8 100BPM46.5H	9 100BPM48.5 10 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	
Motor Protection		Miniature Thermal		
Impeller		1 Channel | Grey Iron Casting		
Solid Passage	mm	80		80 | 100
Voltage	V	400		
Current	A	7.3 | 10.2	13.4	16.8
Weight	kg	135.0	153.0 | 171.0	171.0 | 202.0
Cable Length	m	10		
Option				

BPZM - DN80 -

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 also in dry-well application.
A wide opening channel impeller allows the pump to handle solid matter up to 80 mm.

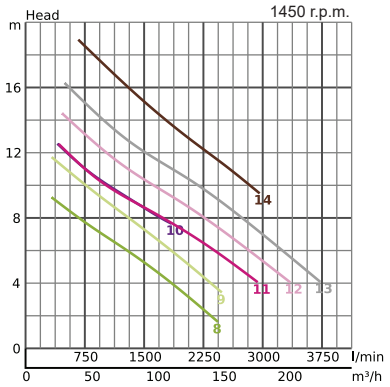


TECHNICAL DATA		1 80BPZM42.9LL	2 80BPZM42.9L	3 80BPZM42.9
Discharge Bore	mm	80		
Motor Output	kW	2.9	2.9	2.9
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Miniature Thermal		
Impeller		1 Channel | Grey Iron Casting		
Solid Passage	mm	80		
Voltage	V	400		
Current	A	5.9	5.9	5.9
Weight	kg	130.0	130.0	134.0
Cable Length	m	10		
Option				

TECHNICAL DATA		4 80BPZM43.7	5 80BPZM43.7H	6 80BPZM45.0	7 80BPZM46.5
Discharge Bore	mm	80			
Motor Output	kW	3.7	3.7	5.0	6.5
Phase		Three			
Starting Method		D.O.L.		Star-Delta	
Motor Protection		Miniature Thermal			
Impeller		1 Channel | Grey Iron Casting			
Solid Passage	mm	80			
Voltage	V	400			
Current	A	7.3	7.3	10.2	13.4
Weight	kg	134.0	134.0	134.0	152.0
Cable Length	m	10			
Option					

BPZM - DN100 -

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 also in dry-well application.
A wide opening channel impeller allows the pump to handle solid matter up to 100 mm.



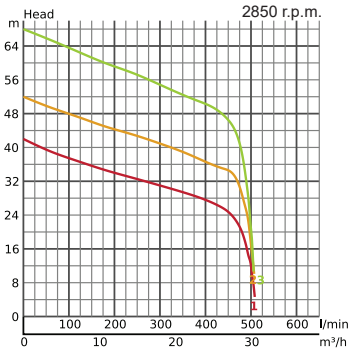
TECHNICAL DATA		8 100BPZM42.9	9 100BPZM43.7	10 100BPZM43.7H
Discharge Bore	mm	100		
Motor Output	kW	2.9	3.7	3.7
Phase		Three		
Starting Method		D.O.L.		
Motor Protection		Miniature Thermal		
Impeller		1 Channel | Grey Iron Casting		
Solid Passage	mm	100		
Voltage	V	400		
Current	A	5.9	7.3	7.3
Weight	kg	138.0	138.0	142.0
Cable Length	m	10		
Option				

TECHNICAL DATA		11 100BPZM45.0L	12 100BPZM45.0	13 100BPZM46.5	14 100BPZM48.5H
Discharge Bore	mm	100			
Motor Output	kW	5.0	5.0	6.5	8.5
Phase		Three			
Starting Method		Star-Delta			
Motor Protection		Miniature Thermal			
Impeller		1 Channel | Grey Iron Casting			
Solid Passage	mm	100			
Voltage	V	400			
Current	A	10.2	10.2	13.4	16.8
Weight	kg	142.0	142.0	160.0	184.0
Cable Length	m	10			
Option					

GPM

Optional Accessories

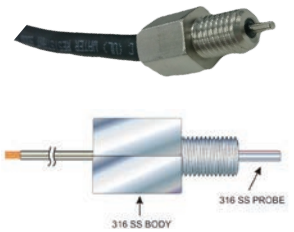
GPM-series is a submersible grinder pump, equipped with premium efficiency of IE3 class motor, designed for handling raw sewage and wastewater where the pump is subject to clogging from oversize material.
An open-multivane channel impeller with cutting mechanism ensures that fibrous foreign matter is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



TECHNICAL DATA		1 50GPM26.4	2 50GPM26.4H	3 50GPM29.5
Discharge Bore	mm	50		
Motor Output	kW	6.4	6.4	9.5
Phase		Three		
Starting Method		Star-Delta		
Motor Protection		Miniature Thermal		
Impeller		Grinder		
Solid Passage	mm			
Voltage	V	400		
Current	A	12.4	12.4	20.1
Weight	kg	122.0	122.0	139.0
Cable Length	m	10		
Option				

Leakage Sensor

A probe type sensor that senses the incursion of water into the seal chamber. This sensor needs to be mounted in place of the oil plug.
Should the bottom seal fail, water will enter the seal chamber. The amount of water will increase until the oil/water mixture becomes conductive. At that point the seal sensor will cause the seal fail detector relay to actuate.



Motor Protection Plug

IP44 plugs can be adjusted on the rated current of the pump and thus offers the easiest way of an external over-amperage protection. Plugs for 3ph have built-in phase inverter to detect the wrong rotation.

Float Switch - Level Sensor

The “drop” shaped float switch is suitable for use in sewage treatment plants and pump stations with liquids contaminated with solids such as, for example, raw wastewater.

MEMO