TSURUMI PUMP

Small Sewage Pumps

Portable sewage pumps in professional quality

Latest Technology - Highest Quality

OM

Submersible sump pumps - impeller passage 10mm

With a light fibre-reinforced plastic casing and head cover, the pump is abrasion and corrosion resistant, minimizing maintenance.

POMA

Submersible sump pumps - impeller passage 35mm

With a light fibre-reinforced plastic casing and head cover, the pump is abrasion and corrosion resistant, minimizing maintenance.

PU

Multi-purpose pump with vortex impeller

PU multi-purpose pumps have adopted stainless steel where metal must be used, while other strategic components are molded in or armoured with high tech resins. Durable, stable in operation and compact, PU pumps are ideal for sewage disposal and many other demanding underwater pumping jobs.

TM

Submersible titanium sewawater pump

All parts in contact with the medium are made of titanium. Titanium has a far stronger oxide film on its surface than stanless steel does. This prevents the pump from being corroded in the seawater which has a very high chlorine ion concentration.

UT

Sewage pump with vortex impeller

The UT pump features a vortex (eddy flow) structure and wide pump casing interior, preventing clogging by waste and solid matter.

PNI

Multi-purpose pump with vortex impeller

Adjustable Float Switch - Start and stop level can be adjusted, built-in auto-Manual selector Switch.

LSC

Residue water pump

Original residue dewatering pump capable of pumping down to floor level. Even the smallest puddle can be pumped dry. Ideal for complete drainage of flat surfaces where a sump is not available: rooftops, parking lots, garages, roadways, pools,...

HS

Light duty drainage pump with spiral casing

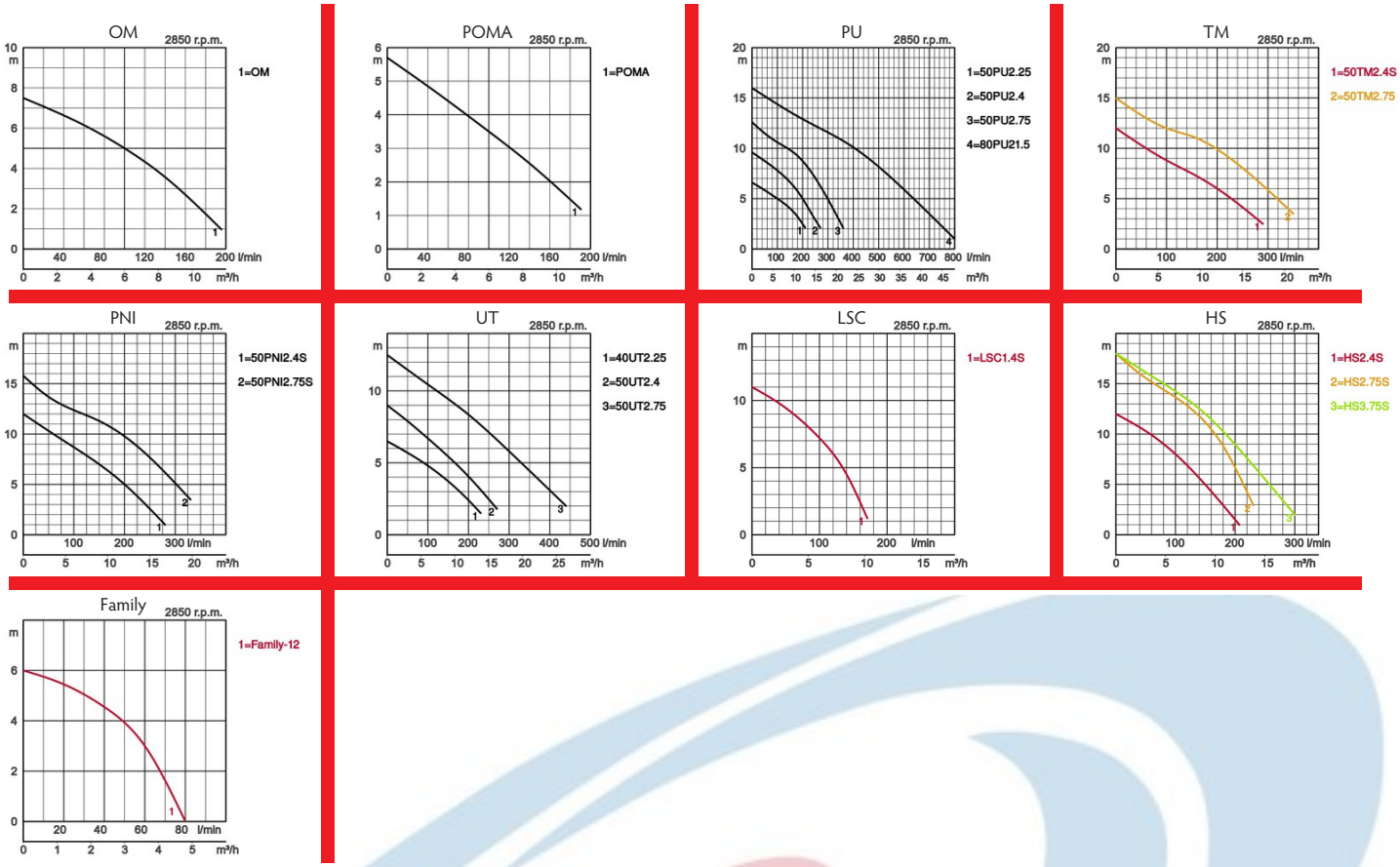
The TSURUMI HS-pump is a small and robust submersible contractor's pump with a wide range of applications where ever water has to be moved.

Family

Ideal for removal of residue water down to 1mm

The residue adapter is a standard accessory that converts the Family into a real residue water pump.

Type	Model	øDischarge bore	Power output kW	Poles	Impeller	Level sensor	Motor protector (built-in)	
Sewage	OM	32	0,15	2	Vortex	O	O	Page 4
	POMA	50	0,15	2	Vortex	O	O	Page 5
	PU	50 • 80	0,25 - 1,5	2	Vortex	O	O	Page 6
Salt Water	TM	50	0,4 • 0,75	2	Vortex	O	O	Page 7
Sewage	PNI	50	0,4 • 0,75	2	Vortex	O	O	Page 8
	UT	40 • 50	0,25 - 0,75	2	Vortex	O	O	Page 9
Portable 1ph/230V1ph/110V	LSC	25	0,48	2	Vortex	O	O	Page 10
	HS	50 • 80	0,4 • 0,75	2	Vortex		O	Page 11
	Family	25	0,1	2	Vortex		O	Page 11



Vortex impeller

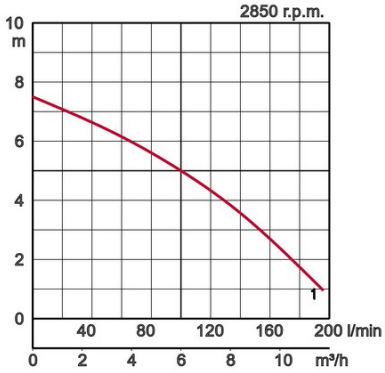
OM 1-phase 50Hz

Specifications:

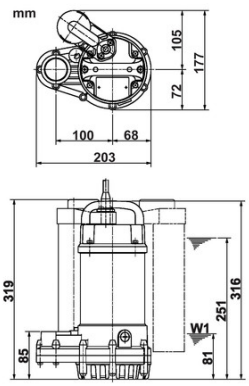
Model	Colour code curve	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable	Impeller passage mm	Cable m
OM	1	32	0,15	1	2850	7,5	195	condensor	5,9	10	10
OMA		32	0,15	1	2850	7,5	195	condensor	5,9	10	10

Pump casing, head cover and impeller made of fibre-reinforced plastic (FRP).
Model OMA with level control.

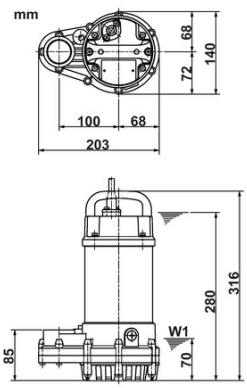
ø Discharge bore mm			32mm
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Domestic sewage
Pump	Compo-nents	Impeller	Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Glass fibre reinforced plastic
		Upper casing	Glass fibre reinforced plastic
		Lower casing	Glass fibre reinforced plastic
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Insulation		Insulation class E
	Motor Protector (built-in)		Circle thermal cut-out
	Phase / Voltage		Single phase 230V / 110V / 50Hz
	Material	Casing	Stainless steel EN-X5CrNi18-10
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, 10m H07RN-F, Rubber, H07RN-F
Discharge Connection			Inside thread, flange



OMA



OM



W1: lowest running water level

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

Vortex impeller

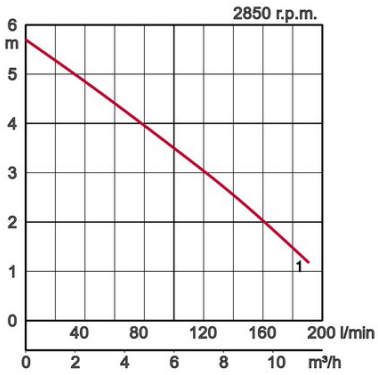
POMA 1-phase 50Hz

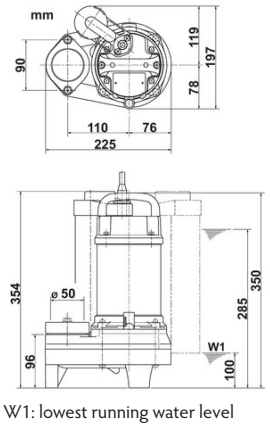
Specifications:

Model	Colour code curve	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable	Impeller passage mm
POMA	1	50	0,15	1	2850	5,7	190	condensor	6,6	35

Pump casing, head cover and impeller made of fibre-reinforced plastic (FRP). 35mm impeller passage.

ø Discharge bore mm			50mm
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Domestic sewage
Pump	Compo-nents	Impeller	Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Glass fibre reinforced plastic
		Upper casing	Glass fibre reinforced plastic
		Lower casing	Plastic
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Insulation		Insulation class E
	Motor Protector (built-in)		Circle thermal cut-out
	Phase / Voltage		Single phase 230V / 110V / 50Hz
	Material	Casing	Stainless steel EN-X5CrNi18-10
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, 10m H07RN-F
Discharge Connection			Inside thread, flange





W1: lowest running water level

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

Vortex impeller

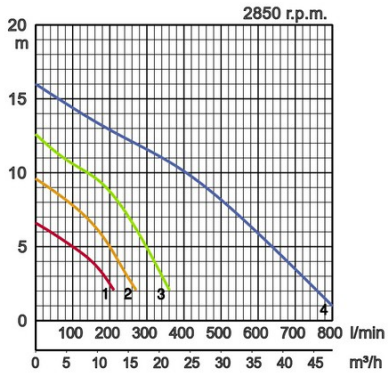
PU 1-phase 3-phase 50Hz

Specifications:

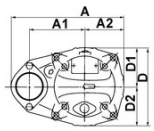
	Model		Colour code curve		Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable		Impeller passage mm
	free standing	with guide rail fitting										free standing	with guide rail fitting	
manual	50PU2.25	optional	1		50	0,25	3	2850	6,6	210	direct	6,1	-	35
	50PU2.4	optional	2		50	0,4	3	2850	9,6	270	direct	7,0	-	35
	50PU2.4S	optional			50	0,4	1	2850	9,6	270	condensor	7,1	-	35
	50PU2.75	optional	3		50	0,75	3	2850	12,5	360	direct	8,3	-	35
	50PU2.75S	optional			50	0,75	1	2850	12,5	360	condensor	8,9	-	35
	80PU21.5	optional	4		80	1,5	3	2850	16,0	800	direct	15,8	-	46
autom.	50PUA2.4	optional			50	0,4	3	2850	9,6	270	direct	7,5	-	35
	50PUA2.4S	optional			50	0,4	1	2850	9,6	270	condensor	7,7	-	35
	50PUA2.75	optional			50	0,75	3	2850	12,5	360	direct	8,9	-	35
	50PUA2.75S	optional			50	0,75	1	2850	12,5	360	condensor	9,5	-	35

Light and solid - Guide rail fitting available for all models.

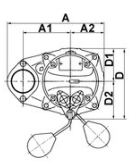
ø Discharge bore mm			50mm, 80mm
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Municipal sewage, water with solids
Pump	Compo-nents	Impeller	Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Glass fibre reinforced plastic
		Upper casing	Glass fibre reinforced plastic
		Lower casing	Plastic
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Insulation		Insulation class E
	Motor Protector (built-in)		Circle thermal cut-out
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l., Single phase 230V / 50Hz
	Material	Casing	Stainless steel EN-X5CrNi18-10
		Shaft	Stainless steel EN-X5CrNi18-10
		Cable	Rubber, 10m H07RN-F
Discharge Connection			Inside thread, flange
Optional Accessories			Guide rail fitting "TOK" for small pumps



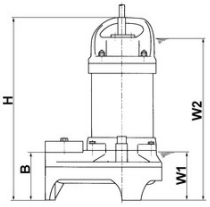
Model	A	A1	A2	B	D	D1	D2	FL1	FL2	H	W1	W2
50PU2.25	236	115	81	102	162	76	86	-	-	349	110	310
50PU2.4	236	115	81	102	162	76	86	-	-	360	110	325
50PU2.4S	236	115	81	102	162	76	86	-	-	360	110	325
50PU2.75	236	115	81	102	162	76	86	-	-	374	110	335
50PU2.75S	236	115	81	102	162	76	86	-	-	374	110	335
80PU21.5	295	145	99	130	196	92	104	-	-	475	150	427
50PUA2.4	236	115	81	102	173	76	97	115	607	374	-	-
50PUA2.4S	236	115	81	102	173	76	97	115	607	374	-	-
50PUA2.75	236	115	81	102	173	76	97	115	621	388	-	-
50PUA2.75S	236	115	81	102	173	76	97	115	621	388	-	-

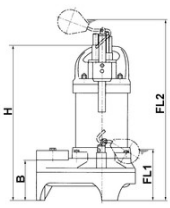


50PU2.25
50PU2.4S
50PU2.4
50PU2.75
80PU21.5
50PU2.75S



50PUA2.4S
50PUA2.4
50PUA2.75
50PUA2.75S





W1: lowest running water level

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

Vortex impeller

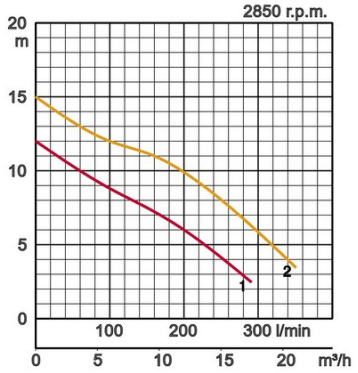
TM 1-phase 3-phase 50Hz

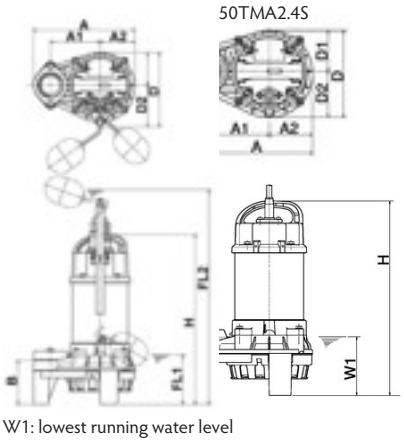
Specifications:

Model	Colour code curve	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable	Impeller passage mm
50TM2.4S	1	50	0,4	1	2850	12,0	290	condensor	6,7	10
50TMA2.4S		50	0,4	1	2850	12,0	290	condensor	7,2	10
50TM2.75	2	50	0,75	3	2850	15,0	350	direct	7,8	10

All parts in contact with the medium are made of titanium. Titanium has a far stronger oxide film on its surface than stainless steel does. This prevents the pump from being corroded in the seawater which has a very high chlorine ion concentration.

ø Discharge bore mm			50mm
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Saltwater, Seawater
Pump	Compo-nents	Impeller	Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Glass fibre reinforced plastic
		Upper casing	Glass fibre reinforced plastic
		Lower casing	Glass fibre reinforced plastic
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG15)
	Insulation		Insulation class E
	Motor Protector (built-in)		Circle thermal cut-out
	Phase / Voltage		Single phase 230V / 50Hz, 3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Titanium
		Shaft	Titanium
		Cable	Rubber, 10m H07RN-F
Discharge Connection			Inside thread, flange





Model	A	A1	A2	B	B1	D	D1	D2	FL1	FL2	H	W1
50TM2.4S	236	115	81	102	90	162	86	76	-	-	360	110
50TMA2.4S	236	115	81	102	-	173	76	97	115	607	374	-
50TM2.75	236	115	81	102	90	162	86	76	-	-	374	110

W1: lowest running water level

Vortex impeller

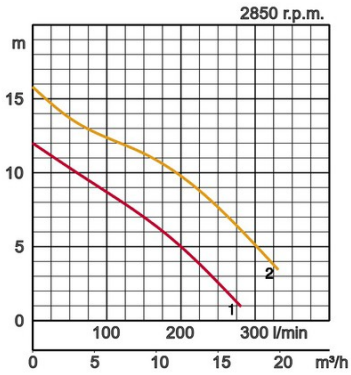
PNI 1-phase 50Hz

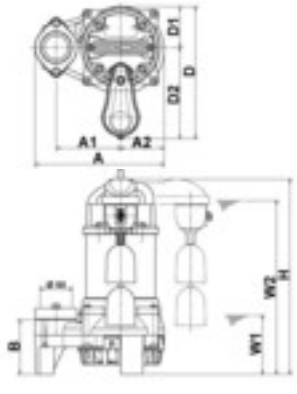
Specifications:

Model	Colour code curve	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable	Impeller passage mm
50PNI2.4S	1	50	0,4	1	2850	12,0	280	condensor	7,4	10
50PNI2.75S	2	50	0,75	1	2850	15,8	330	condensor	9,5	10

Multi-purpose pump with vortex impeller.
Adjustable Float Switch - start and stop level can be adjusted, built-in auto-Manual selector Switch.

ø Discharge bore mm			50mm
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Municipal sewage, water with solids
Pump	Compo-nents	Impeller	Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Glass fibre reinforced plastic
		Upper casing	Glass fibre reinforced plastic
		Lower casing	Plastic
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Insulation		Insulation class E
	Motor Protector (built-in)		Miniature protector, Circle thermal cut-out
	Phase / Voltage		Single phase 230V / 50Hz
	Material	Casing	Stainless steel EN-X5CrNi18-10
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, 10m H07RN-F
Discharge Connection			Inside thread, flange
Optional Accessories			Guide rail fitting "TOK" for small pumps





W1: lowest running water level

Model	A	A1	A2	B	D	D1	D2	H	W1	W2
50PNI2.4S	241	120	81	102	246	76	170	360	110	325
50PNI2.75S	241	120	81	102	246	76	170	380	110	345

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

Vortex impeller

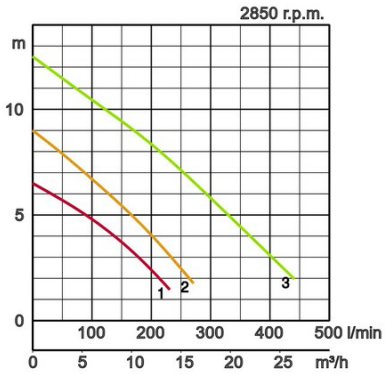
UT 1-phase 3-phase 50Hz

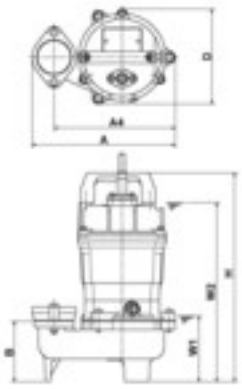
Specifications:

Model		Colour code curve	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable		Impeller passage mm
free standing	with guide rail fitting									free standing	with guide rail fitting	
40UT2.25	optional	1	40	0,25	3	2850	6,5	230	direct	13,5	-	35
40UT2.25S	optional		40	0,25	1	2850	6,5	230	direct	14,0	-	35
50UT2.4	optional	2	50	0,4	3	2850	9,0	270	direct	13,5	-	35
50UT2.4S	optional		50	0,4	1	2850	9,0	270	direct	14,0	-	35
50UT2.75	optional	3	50	0,75	3	2850	12,5	440	direct	16,0	-	35
50UT2.75S	optional		50	0,75	1	2850	12,5	440	direct	17,0	-	35

Vortex impeller with wide pump casing, preventing clogging by solids and fibrous matter.

ø Discharge bore mm			40mm, 50mm
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Municipal sewage, water with solids
Pump	Compo-nents	Impeller	Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Plastic
		Casing	Grey iron casting EN-GJL-200
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Insulation		Insulation class E
	Motor Protector (built-in)		Circle thermal cut-out
	Phase / Voltage		Single phase 230V / 50Hz, 3-phase / 400V / 50Hz / d.o.l.
	Material	Casing	Grey iron casting EN-GJL-150
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, 10m H07RN-F
Discharge Connection			Inside thread, JIS10K flange
Optional Accessories			Guide rail fitting "TOK" for small pumps





Model	A	A4	B	D	FL1	FL2	H	W1	W2
40UT2.25	239	205	101	161	-	-	350	110	300
40UT2.25S	239	205	101	161	-	-	350	110	300
50UT2.4	242	205	101	161	-	-	350	110	300
50UT2.4S	242	205	101	161	-	-	350	110	300
50UT2.75	242	205	101	161	-	-	406	110	350
50UT2.75S	242	205	101	161	-	-	406	110	350

W1: lowest running water level

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

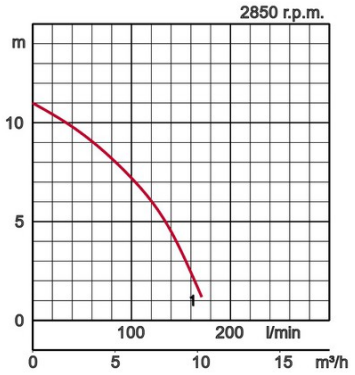
LSC 1-phase 50Hz

Specifications:

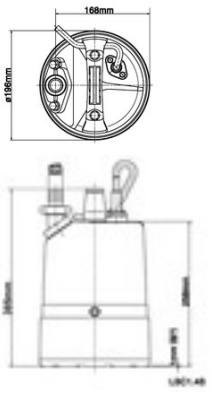
Model	Colour code curve	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Pressure resistance max. m	Cable length m
LSC1.4S	1	25	0,48	2,9	11,0	170	12,0	6	10	10
LSCE1.4S		25	0,48	2,9	11,0	170	11,6	6	10	10

Original residue dewatering pump capable of pumping down to floor level. Even the smallest puddle can be pumped dry. Ideal for complete drainage of flat surfaces where a sump is not available: rooftops, parking lots, garages, roadways, pools,...

ø Discharge bore mm			25
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Cleaning water, Water on floor, Puddles
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Urethane rubber
		Casing	Ethylene propylene rubber
		Suction Plate	Steelplate+Urethane rubber
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Miniature protector
	Insulation		Insulation class E
	Phase / Voltage		Single phase 230V / 110V / 50Hz
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Hose coupling



LSC1.4S



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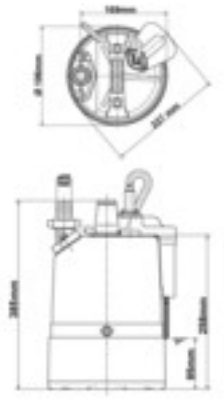


W1: lowest running water level

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

Portable Contractors' Pumps

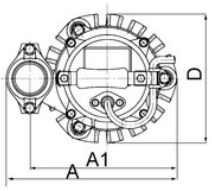
HS

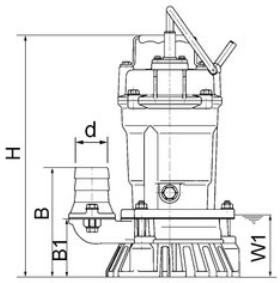
1-phase
50Hz

Model	Colour code curve	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Pressure resistance max. m	Cable length m	Dimensions in mm: d	A	A1	B	B1	D	H	W1
HS2.4S	1	50	0,4	2,6	12,2	207	11,3	7	10	10	50	240	207	158	84	185	358	90
HS2.75S	2	50	0,75	4,8	18,0	230	19,0	7	10	10	50	285	233	217	109	184	424	90
HS3.75S	3	80	0,75	4,8	18,0	300	19,6	7	10	10	80	285	233	217	109	184	424	90

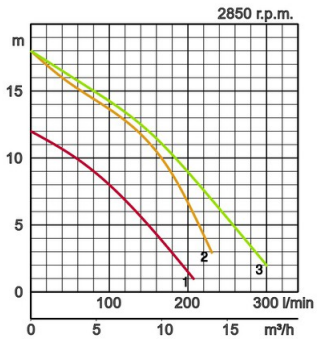
The TSURUMI HS-pump is a small and robust submersible contractor's pump with a wide range of applications whereever water has to be moved.

Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo-nents	Impeller	Semi-Vortex impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Urethane rubber
		Casing	Ductile iron casting EN-GJS-700-2
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Motor Protector (built-in)		Miniature protector
	Insulation		Insulation class E
	Phase / Voltage		Single phase 230V / 110V / 50Hz
	Material	Casing	Aluminium die casting
		Shaft	Stainless steel EN-X6Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Threaded flange/Hose coupling





W1: lowest running water level



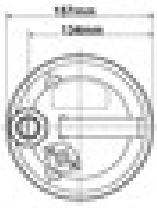
Family

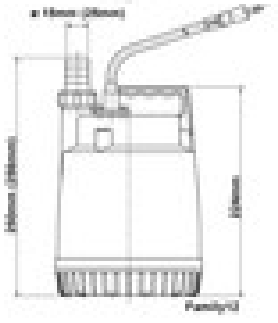
1-phase
50Hz

Model	Colour code curve	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Pressure resistance max. m	Cable length m
Family-12	1	25	0,1	1,3	6,0	80	3,4	6	5	10

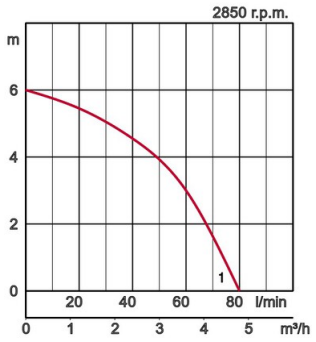
The residue adapter is a standard accessory that converts the Family into a real residue water pump.

Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Clear Water
Pump	Compo-nents	Impeller	Vortex impeller
		Shaft Seal	Mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Glass fibre reinforced plastic
		Casing	AAS
		Shaft Seal	Silicon carbide in oil bath
Motor	Type, Poles		Induction motor, 2 poles, IP68
	Lubrication		Turbine oil (ISO VG15)
	Motor Protector (built-in)		Circle thermal cut-out
	Insulation		Insulation class E
	Phase / Voltage		Single phase 230V / 50Hz
	Material	Casing	AAS
		Shaft	Stainless steel EN-X30Cr13
		Cable	Rubber, H07RN-F
Discharge Connection			Hose coupling





W1: lowest running water level



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

TSURUMI PUMP

Contributing to World-wide Prosperity and Understanding through Worker- and Environment-friendly Production.

Designed for increased productivity through fully integrated streamlined production systems, Tsurumi ´s factory in Kyoto (Japan) features a production capacity of a full 1 million pumps per year. Large-scale modern R&D facilities offer optimum conditions for experimenting and testing of even super-large pumps and for developing new products to expand the possibilites and applications of pumps. To provide optimum conditions for our main asset, our workers, as well as for the environment, special emphasis is placed on optimized working conditions with airconditioning, minimized dust and exhaust gas emission, comprehensive recycling and waste recovery.

Tsurumi (Europe) GmbH

Wahlerstr. 10
D-40472 Düsseldorf
Tel.: +49 (0)211-4179373
Fax: +49 (0)211-417937-480
Email: sales@tsurumi.eu
www.tsurumi.eu

We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.

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