



# SUBMERSIBLE PUMPS

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## Applications

### Cleaning and pumping down of liquids of

- Water and waste water tanks
- Fish tanks, Mines, pools and ponds

### Garden irrigation

- Reutilisation of process water
- Waterfalls in gardens, fountains

### Application at homes

- Septic tanks and water transport
- Pumping down of waste water

### Home drainages and dewatering

- Pumping down of ground water and level regulation
- Applications at house building and construction

### Agricultural applications

- Irrigation/Dewatering and industrial applications

## Advantages

- Great diversification
- Wide fulfilment of demand
- High efficiency
- Permanent further development

# SUBMERSIBLE PUMPS

## Operating principle

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Submersible pumps are very effective.

A wheel turns in a housing. The turning turbine sucks in the liquid through the inlet opening. The rotation accelerates the liquid and pushes it radial outside. The liquid flows out of the housing through the outlet opening.

The most important parameters of a pump are revolution and wheel diameter.

Due to the hydrodynamic operation method, both determine the attained pressure head and delivery rate significant.

Using the full capacity of the pumps the cross sections of pump and hose have to be aligned. A reduction in hose cross section reduces pumping capacity and stresses the turning parts since the pump must now work against increased pressure in the system.

Submersible pumps uses the pumped liquid also as a coolant. To prevent overheating our pumps include a protection against running dry - the so-called floater circuit.

When the water level sinks, the floater circuit automatically switches off the pump. The latest generation of the SM series is now equipped with an integrated chip which regulates continuous monitoring electronically and turns the pump on or off, as necessary.

Our pumps are operated with 230 V.

## Other models on request

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**You can't find the right submersible pump for your application?**

**Please contact our technical support. We will be glad to help you.**

## Example of use

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### Drainage or rain water use

Water is collected from sealed surfaces (roof, terrace, parking space, etc.) and purified via a pre-filter for later use in the household as water for domestic use. Afterward, it is stored in a cement cistern. The water can then be removed, for example with a submersible pump, when needed.



## BPS series

BPS-200M / BPS-200MA

BPS-300 / BPS-400

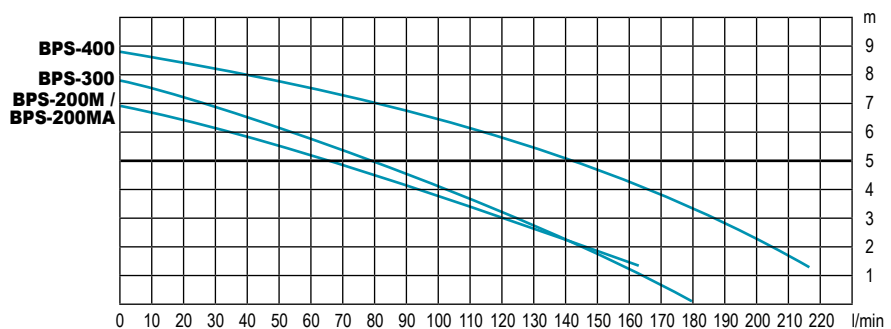
### Product characteristics

- Built-in thermal protection switch
- High quality plastic housing for long-term outdoor use
- High efficiency motor with F class insulation and IP68
- BPS-200 is optional available for sea water use
- Optional with vertical switch

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
	V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)	l/min	mm	Inch	mm	m	kg
<b>BPS-200M</b>	230, 50/60	200	2900/3500	4	80	7	160	32	1¼	190 x 155 x 290	10	3.8
<b>BPS-200MA</b>	230, 50/60	200	2900/3500	4	80	7	160	32	1¼	190 x 155 x 290	10	3.8
<b>BPS-300</b>	230, 50/60	300	2900/3500	5	80	8	180	40	1½	196 x 160 x 370	10	6.6
<b>BPS-400</b>	230, 50/60	400	2900/3500	6	120	9	240	50	2	196 x 160 x 370	10	7.6

## Performance data





## TPS / TPV series

### TPS-50 / TPS-200 / TPV-200

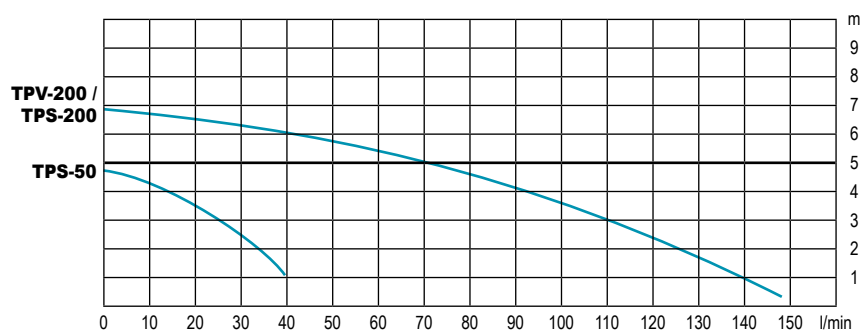
#### Product characteristics

- Low axial and radial load design
- Designed for 24 hours operation
- Can pass solids from 4 mm (TPS) up to 20 mm (TPV)
- Optional for light acid, alkali and seawater use

### Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
				V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)	l/min	mm	Inch
TPS-50	230, 50/60	80	2900/3500	3	22	4	40	20	¾	114 x 114 x 265	10	2.5
TPS-200	230, 50/60	200	2900/3500	4	120	7	140	32	1½	168 x 146 x 288	10	3.6
TPV-200	230, 50/60	200	2900/3500	4	120	7	140	32	1½	168 x 146 x 288	10	3.6

### Performance data





## RV series

RV-32 / RV-40

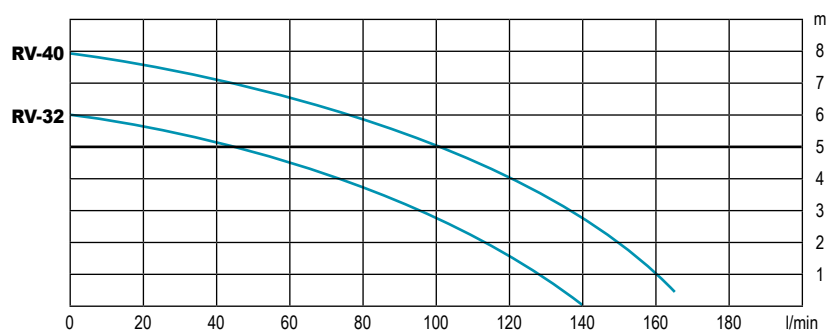
### Product characteristics

- Innovative sewage pump with robust plastic housing
- Designed to run continuously without stop for long time
- Can pass solid up to 18 mm
- Double volute chamber to barricade dirty stuff

### Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
	V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)	l/min	mm	Inch	mm	m	kg
RV-32	230, 50/60	200	2900/3500	4	80	6	130	32	1¼	154 x 143 x 345	10	3.9
RV-40	230, 50/60	250	2900/3500	5	120	8	170	32	1¼	154 x 143 x 345	10	5.9

### Performance data





## SV series

SV-150 / SV-250 / SV-400

SV-550 / SV-750

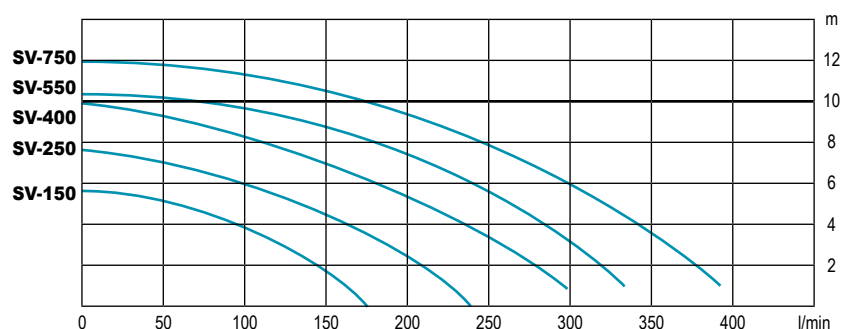
### Product characteristics

- Can pass solid from 20 up to 40 mm
- Waste water applications possible
- Non-clogging design
- Built-in thermal protection switch
- Stainless steel motor housing

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
				V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)			
SV-150	230, 50/60	150	2900/3500	4	100	5.7	170	40	1½	415 x 155 x 210	10	8
SV-250	230, 50/60	250	2900/3500	4.5	120	7.5	220	40	1½	415 x 155 x 210	10	9.5
SV-400	230, 50/60	400	2900/3500	6	180	10	300	50	2	435 x 155 x 240	10	12
SV-550	230, 50/60	550	2900/3500	8	220	10	360	80	3	435 x 155 x 260	10	14
SV-750	230, 50/60	750	2900/3500	9	230	11	380	80	3	435 x 155 x 260	10	18

## Performance data





## BAV series

BAV-150 / BAV-250 / BAV-400 /  
BAV-550

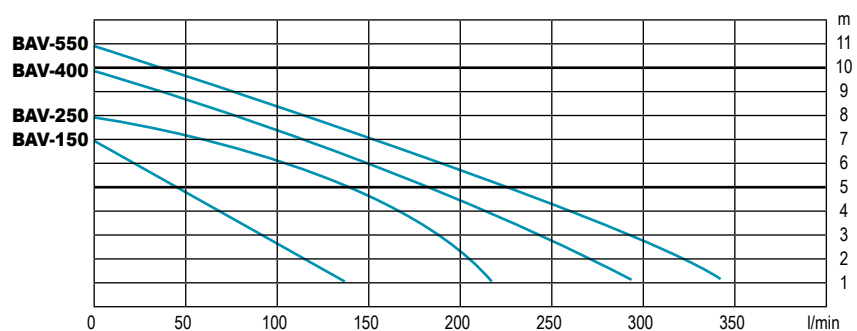
### Product characteristics

- Non-clogging vortex impeller
- Built-in thermal protection switch
- Stainless steel motor housing
- Passes solid diameter from 10 up to 35 mm
- Optional with strainer for clean water

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
				V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)			
BAV-150	230, 50/60	150	2900/3500	3.5	60	7	130	32	1¼	190 x 140 x 300	10	5
BAV-250	230, 50/60	250	2900/3500	5	120	8	200	40	1½	200 x 140 x 320	10	6
BAV-400	230, 50/60	400	2900/3500	5	180	10	280	50	2	230 x 160 x 350	10	6.5
BAV-550	230, 50/60	550	2900/3500	6	200	11	340	50	2	230 x 160 x 380	10	10

## Performance data







## KS series

KS-03 / KS-04 / KS-05 / KS-08 / KS-20 /  
KS-30 / KS-50 / KS-75 / KS-100

### Product characteristics

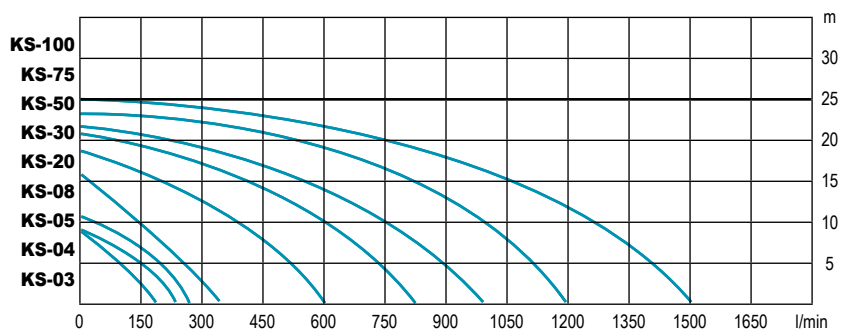
- Motor with IP68 protection and F class insulation
- Low temperature rise for long service life
- Built-in thermal protection switch
- Optional with double mechanical seal (up from KS-08)

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
				V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)			
KS-03	230, 50/60	250	2900/3500	3	130	8	180	40	1½	188 x 141 x 305	10	9
KS-04	230, 50/60	400	2900/3500	5	150	8	220	50	2	208 x 140 x 359	10	11
KS-05	230, 50/60	400	2900/3500	5	160	10	260	50	2	230 x 156 x 375	10	14
KS-08	230, 50/60	750	2900/3500	6	240	13	380	50(80)	2 (3)	290 x 180 x 425	10	21
KS-20	230 <sup>1)</sup> , 50/60	1500	2900/3500	10	300	16	600	80	3	278 x 182 x 475	10	31
KS-30	380, 50/60	2200	2900/3500	10	500	18	800	80	3	390 x 250 x 450	10	42
KS-50	380, 50/60	3700	2900/3500	10	800	21	1100	100	4	450 x 240 x 530	10	48
KS-75	380, 50/60	5600	2900/3500	15	800	23	1300	100	4	550 x 310 x 590	10	60
KS-100	380, 50/60	7500	2900/3500	18	900	26	1600	150	6	550 x 310 x 610	10	70

<sup>1)</sup> also available as 380 V version

## Performance data





## KSH series

KSH-05 / KSH-10 / KSH-20  
KSH-30 / KSH-50

### Product characteristics

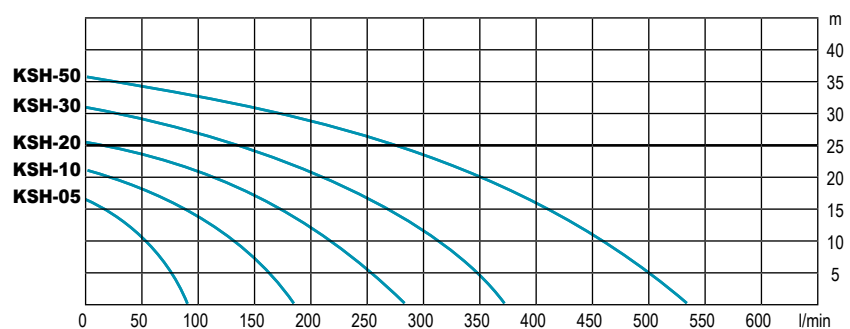
- Motor with IP68 protection and F class insulation
- Low temperature rise for long service life
- Built-in thermal protection switch
- With double mechanical seal

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H mm	Standard cable length m	Weight kg
	Voltage	Power	Revolution	Rated		Maximum						
				V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)			
KSH-05	230, 50/60	400	2900/3500	10	80	18	120	40	1½	290 x 168 x 422	10	16
KSH-10	230, 50/60	750	2900/3500	15	100	21	200	40	1½	283 x 227 x 465	10	29
KSH-20	230 <sup>1)</sup> , 50/60	1500	2900/3500	15	180	25	320	50	2	283 x 227 x 484	10	32
KSH-30	380, 50/60	2200	2900/3500	18	250	30	420	50	2	395 x 250 x 510	10	42
KSH-50	380, 50/60	3700	2900/3500	20	300	35	550	80	3	455 x 290 x 585	10	50

<sup>1)</sup> also available as 380 V version

## Performance data





## DS / DSK series

DS-05 / DS-20 / DS-30 / DS-50 /  
DS-100 / DSK-05 / DSK-10 / DSK-20 /  
DSK-30 / DSK-50

### Product characteristics

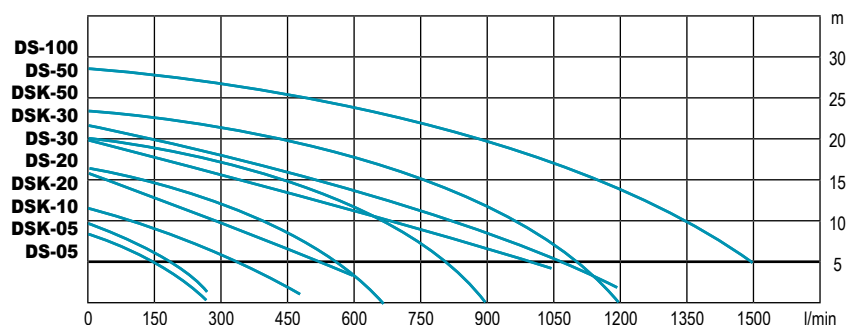
- Motor with IP68 protection and F class insulation
- Low temperature rise for long service life
- Built-in thermal protection switch
- Stainless steel motor housing
- Optional pedestal for easy installation (TDS / TDSK)

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
	V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)	l/min	mm	Inch	mm	m	kg
DS-05	230, 50/60	400	2900/3500	5	160	10	240	50	2	245 x 188 x 420	10	18
DS-20	230 <sup>1)</sup> , 50/60	1500	2900/3500	8	380	15	650	80	3	285 x 223 x 550	10	32
DS-30	380, 50/60	2200	2900/3500	10	550	18	1060	80	3	410 x 240 x 520	10	42
DS-50	380, 50/60	3700	2900/3500	12	600	19	1210	100	4	480 x 250 x 550	10	57
DS-100	380, 50/60	7500	2900/3500	15	1100	26	1500	100	4	530 x 320 x 610	10	75
DSK-05	230, 50/60	400	2900/3500	5	100	8	240	50	2	245 x 188 x 420	10	18
DSK-10	230, 50/60	750	2900/3500	6	250	12	350	50	2	280 x 195 x 420	10	30
DSK-20	230 <sup>1)</sup> , 50/60	1500	2900/3500	8	500	15	650	80	3	280 x 195 x 425	10	35
DSK-30	380, 50/60	2200	2900/3500	10	550	18	800	80	3	410 x 240 x 520	10	46
DSK-50	380, 50/60	3700	2900/3500	12	700	21	1200	100	4	480 x 250 x 550	10	62

<sup>1)</sup> also available as 380 V version

## Performance data





## JK series

JK-05 / JK-10 / JK-20  
JK-30 / JK-50 / JK 75

### Product characteristics

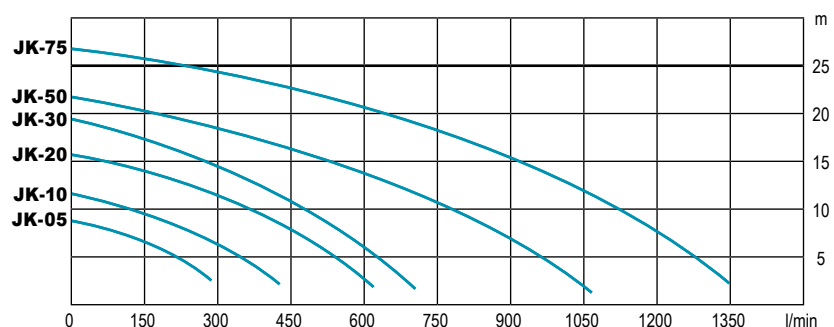
- Non-clogging impeller design for superior operation
- Optional strainer may protect oil seal to prolong life
- Built-in thermal protection switch
- Optional silicon carbide mechanical seal and Tungsten impeller
- Optional pedestal for easy installation (TJK)

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
	V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)	l/min	mm	Inch	mm	m	kg
JK-05	230, 50/60	400	2900/3500	6	150	9	300	50	2	223 x 132 x 395	10	14
JK-10	230, 50/60	750	2900/3500	9	200	12	420	50	2	223 x 132 x 425	10	30
JK-20	230 <sup>1)</sup> , 50/60	1500	2900/3500	12	300	17	620	80	3	390 x 210 x 530	10	32.2
JK-30	380, 50/60	2200	2900/3500	14	320	20	750	80	3	392 x 210 x 550	10	34.5
JK-50	380, 50/60	3700	2900/3500	15	480	23	1100	100	4	525 x 250 x 635	10	45
JK-75	380, 50/60	5500	2900/3500	18	600	25	1350	100	4	525 x 250 x 675	10	54

<sup>1)</sup> also available as 380 V version

## Performance data





## JKH series

JKH-150 / JKH-250

JKH-400 / JKH-750

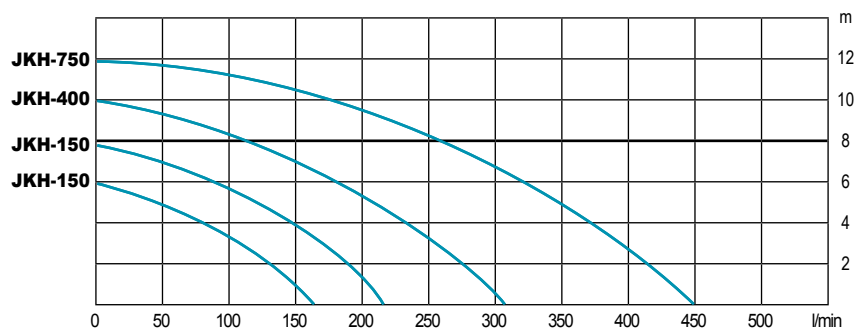
### Product characteristics

- Spherical clearance up to 35 mm

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H mm	Standard cable length m	Weight kg
	Voltage	Power	Revolution	Rated		Maximum						
				V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)			
JKH-150	230, 50/60	150	2900/3500	4	100	6	160	50	2	305 x 152 x 175	10	5,5
JKH-250	230, 50/60	250	2900/3500	5	120	7	220	50	2	320 x 152 x 175	10	6,5
JKH-400	230, 50/60	400	2900/3500	6	180	10	300	50	2	330 x 162 x 180	10	8
JKH-750	230, 50/60	750	2900/3500	8	220	12	450	50	2	350 x 162 x 180	10	11

## Performance data





## JKCH series

JKCH-30 / JKCH-40 / JKCH-50

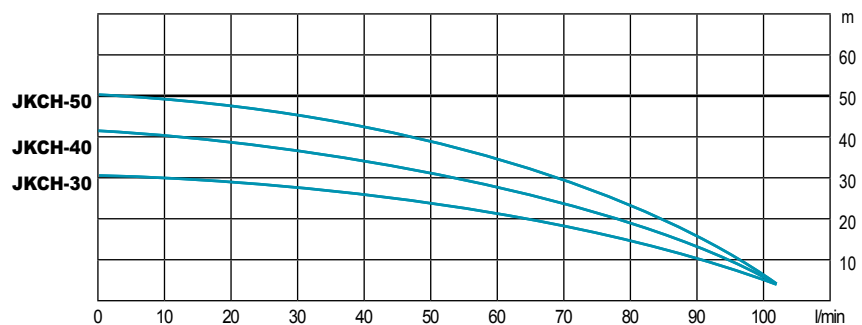
### Product characteristics

- Stainless steel housing
- Impellers, diffusers and separators in PPO material and fiber glass
- Built-in thermal protection switch
- Particularly suited for dewatering, irrigation and water boosting from 30 to 60 m head

### Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H mm	Standard cable length m	Weight kg
	Voltage	Power	Revolution	Rated		Maximum						
				V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)			
JKCH-30	230, 50/60	800	2900/3500	20	45	31	100	32	1¼	126 x 126 x 454	10	12.8
JKCH-40	230, 50/60	900	2900/3500	25	55	42	100	32	1¼	126 x 126 x 478	10	13.8
JKCH-50	230, 50/60	1100	2900/3500	30	58	52	100	32	1¼	126 x 126 x 530	10	14.8

### Performance data





## SB series

SB-05 / SB-10 / SB-20  
SB-30 / SB-50 / SB-75

### Product characteristics

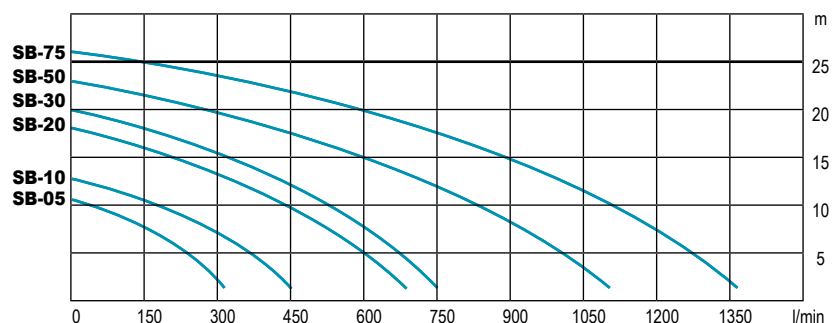
- Non-clogging impeller design for superior operation
- Optional strainer may protect oil seal to prolong life
- Stainless steel for use with sea water and light acid
- Built-in thermal protection switch
- Optional silicon carbide mechanical seal and Tungsten impeller

### Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
	V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)	l/min	mm	Inch	mm	m	kg
SB-05	230, 50/60	400	2900/3500	6	150	9	300	50	2	223 x 132 x 395	10	14
SB-10	230, 50/60	750	2900/3500	9	200	12	420	50	2	223 x 132 x 425	10	21
SB-20	230 <sup>1)</sup> , 50/60	1500	2900/3500	12	300	17	620	80	3	390 x 210 x 530	10	32.2
SB-30	230 <sup>1)</sup> , 50/60	2200	2900/3500	14	320	20	750	80	3	392 x 210 x 550	10	34.5
SB-50	230 <sup>1)</sup> , 50/60	3700	2900/3500	15	480	23	1100	80 (100)	3 (4)	525 x 250 x 635	10	45
SB-75	380, 50/60	5500	2900/3500	18	600	25	1350	100	4	525 x 250 x 675	10	54

<sup>1)</sup> also available as 380 V version

### Performance data





## SW series

SW-50 / SW-100 / SW-200

### Product characteristics

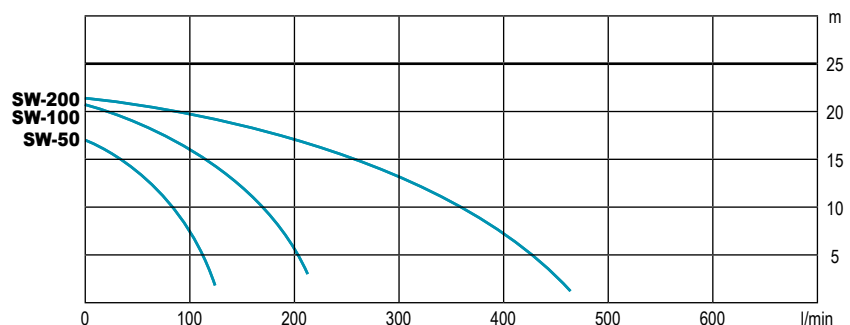
- Two pole high efficient motor
- Stainless steel pump casing with tough fiber glass plastic impeller and diffuser
- Lightweight aluminum motor housing for superior heat transfer

## Technical data

Model	Motor power			Pump power				Outlet		Dimensions L x W x H	Standard cable length	Weight
	Voltage	Power	Revolution	Rated		Maximum						
				V, Hz	W	min <sup>-1</sup>	H (m)	l/min	H (m)			
<b>SW-50</b>	230, 50/60	400	2700/3450	10	70	18	120	25	1	340 x 200 x 160	10	10
<b>SW-100</b>	230, 50/60	750	2700/3450	13	120	20	200	40	1½	400 x 220 x 220	10	18
<b>SW-200</b>	230 <sup>1)</sup> , 50/60	1500	2700/3450	16	250	20	400	50	2	354 x 182 x 220	10	20

<sup>1)</sup> also available as 380 V version

## Performance data

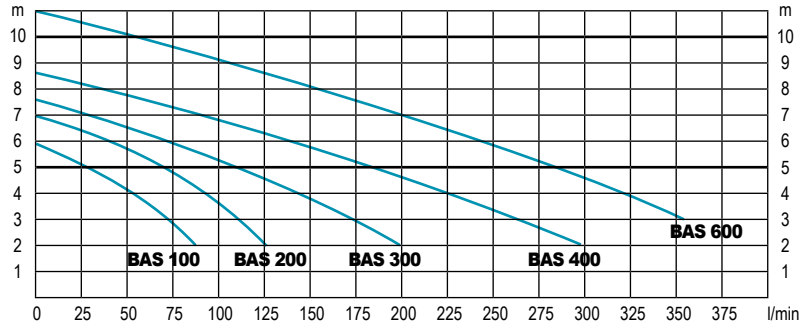




**BAS series**



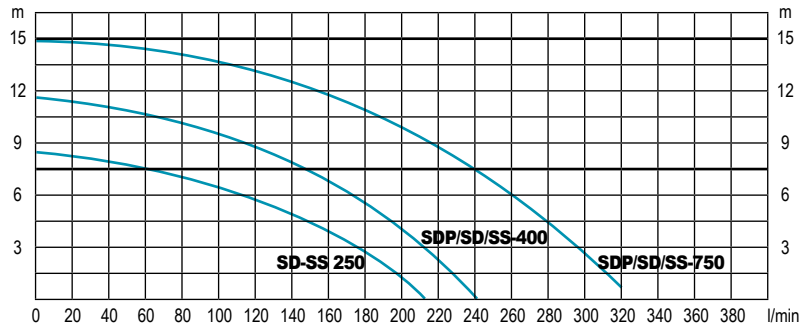
BAS-100 / BAS-200 / BAS-300 / BAS-400 / BAS-600



**SD / SS / SDP series**



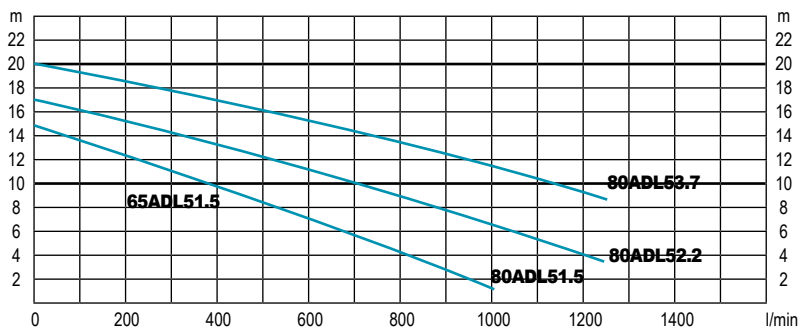
SD-250 / SD-400 / SD-750 / SS-250 / SS-400 / SS-750 / SDP-400 / SDP-750



**ADL series**



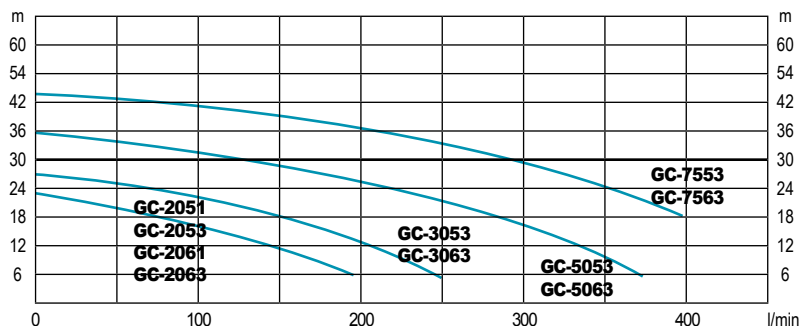
65ADL51.5 / 80ADL51.5 / 80ADL52.2 / 80ADL53.7



**GC series**



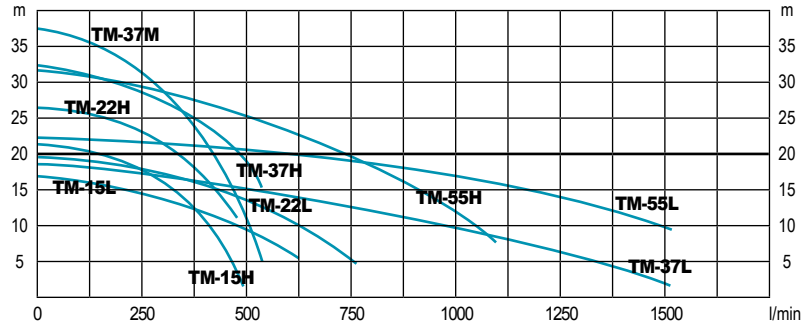
GC-2051 / GC-2053 / GC-2061 / GC-2063 / GC-3053 / GC-3063 / GC-5053 / GC-5063 / GC-7553 / GC-7563



### TM series



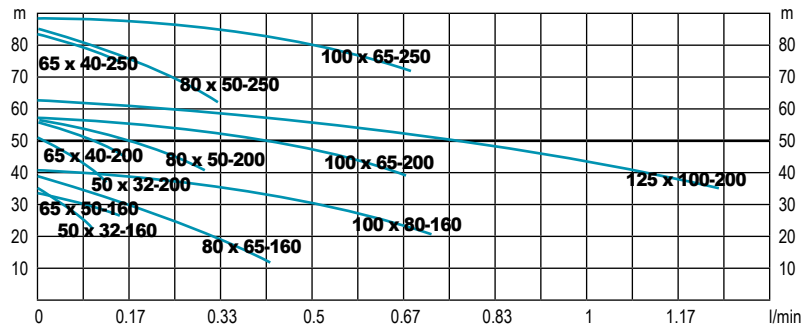
TM-15H / TM-15L / TM-22H / TM-22L / TM-37H /  
TM-37M / TM-37L / TM-55H / TM-55L



### CP series



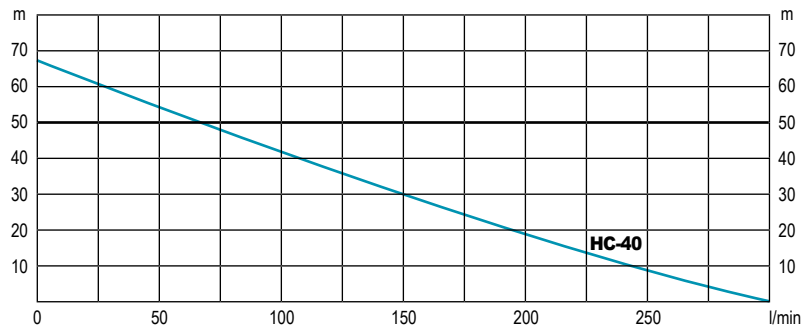
50 x 32-160 / 50 x 32-200 / 65 x 50-160 / 65 x 40-200 /  
65 x 40-250 / 80 x 65-160 / 80 x 50-200 / 80 x 50-250 /  
100 x 80-160 / 100 x 65-200 / 100 x 65-250 / 125 x 100-200



### HC-40 series



HC-40



### SJ series



SJ-05 / SJ-05E / SJ-10 / SJ-10E

