



2K Series Stainless Steel Submersible Pumps

Models

2K100-2K405

FEATURES

- 304SSL construction offers corrosion resistance and increases operating life over typical cast iron models.
- Unique bulge formed components eliminates harsh radius and welds and provides greater efficiency and durability.
- Lubricated double mechanical seal offers dependable performance with a variety of liquids.
- Air filled, continuous-duty motors for reliable, long term operation.
- Single phase motor features permanent split capacitor and thermal protection with automatic reset for added protection and extend motor life.
- Versatile, reliable operation whether fully or partially submerged.
- Multiple sizes from 1/2 to 2 hp offers application flexibility.
- Sealed float switch for automatic operation.

Quality Materials

- Casing is 304SSL for durability over traditional cast iron.
- Semi-open impeller is 304SSL on all models for long life, durability and economy.
- Shaft is 304SSL for dependable, long life.
- Motor frame is 304SSL for dependability.
- Fasteners are all 304SS for durability.
- Shaft Seals are special blend NBR and FPM for compatibility and long life.
- Sealed Bearings for longer life.

SPECIFICATIONS

	U.S. Measure				
Flow Range	up to 180 gpm				
Pressure Range	up to 19.5 psi				
	up to 46 Ft. Head				
RPM	3450 rpm				
Discharge Fitting					
Motor Phase	SingleClass F, 115V, 230V				
	ThreeClass F, 230V, 460V				
Cycle	60 Hz				
Cable Length	1 PH[Gauge AWG 14/16, UL/CSA 3-Prong] 25 Ft.				
	3 PH[Gauge AWG 16, UL/CSA] 25 Ft.				
Float Operation	Manual or Automatic				
Maximum Starts/H	lour20				
Maximum Temperature(Continuous)					
104°F					
	(Intermitent) 140°F				
Maximum Solids D	viameter2"				
Weight (see charts)				
Dimensions (see ch	narts)				
	Length19.13-24.0"				
	Diameter9.0"				

CAPACITY IN GALLONS PER MINUTE (GPM)															
MODEL	FEET OF HEAD														
	8	9	10	12	14	16	18	21	24	27	30	32	35	40	46
2K100-105	88	83	78	68	57	45	31	8							
2K200-205				100	88	76	64	45	25	8					
2K302-305				120	113	105	97	84	69	52	30	8			
2K403-405		180	177	171	165	158	152	141	130	118	105	96	81	52	8

GENERAL SAFETY AND OPERATION

1. Use with the proper electrical receptacle. On single phase models cord is supplied with a grounding type, 3-prong plug.

NOTE: DO NOT USE GROUNDING ADAPTER.

- 2. Do not use if outer covering of cord becomes excessively cut or
- 3. Each pump comes with a built-in handle for lifting. For added convenience, the 899045 25 ft. marine rope can be attached to the handle.

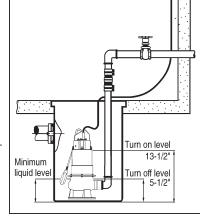
WARNING

Do not lift with power cord. This can cause damage to the connection and result in shock or serious injury.

4. Continued cycling on and off is an indication the motor is in

overload. Make certain the pump is level and adequately submersed in liquid. NOTE: CONTINUED **OPERATION WITH EXCESSIVE CYCLING** WILL OVERHEAT AND

BURN OUT MOTOR. 5. All automatic models come with a float switch to shut-off unit when liquid level drops below safe operation. For field retro-fit. the 899080 [115V] or 899081 [230V]



float switch can be added to automate the manual units.

TROUBLESHOOTING

• Overheated and burned out unit must be replaced.

• Check for proper particle size. Maximum 2" and 2% concentrate and raise from bottom of pit.

• Reposition pump in pit or remove if liquid is too low.

• Keep liquid within pump limits. Remove if liquid is low.

• Reposition pump in liquid with minimum 5-1/2" liquid.

 Check power supply. • Check power supply.

PUMP WON'T START

- Blown fuse or tripped circuit
- Low voltage line
- Defective motor
- Impeller clogged

- Not primed
- **PUMP CYCLES ON AND OFF**
- Insufficient liquid
- Impeller clogged

Low voltage

Worn seals

- Pump run dry
- Liquid temperature to high
- Keep liquid within pump limits.
- PUMP OPERATES BUT DELIVERS LITTLE FLOW • Check liquid and particle size. Flush impeller area.
 - Check power supply.
 - Replace pump unit.

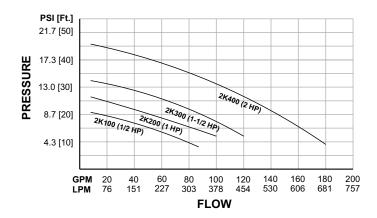
WARRANTY

This pump is warranted for one year from date of purchase.

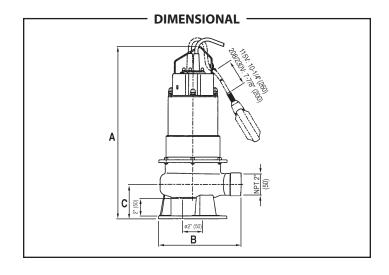
Improper installation and use will void the warranty.

Tampering with the power cord, impeller or seals will void the warranty.

2K SERIES PERFORMANCE RANGES



		Α	UTOM	ATIC N	IODEL	.S		
					Pump-N	Т		
Model	HP	Phase	Volts	Amps	A	l B	C	Wt. (lbs
2K100	1/2	1	115	8.30	21.63	9.0	3.88	36
2K102	1/2	1	230	4.40	19.13	9.0	3.88	36
2K200	1	1	115	*11.80	22.81	9.0	3.88	41
2K202	1	1	230	6.40	22.81	9.0	3.88	44
2K302	1-1/2	1	230	7.00	20.25	9.0	3.88	45
			MANU	JAL M	DDELS			
					Pump-Motor Dimensions (in.)			
Model	HP	Phase	Volts	Amps	Α	В	C	Wt. (lbs
2K101	1/2	1	115	8.30	21.63	9.0	3.88	36
2K103	1/2	1	230	4.40	21.63	9.0	3.88	36
2K104	1/2	3	230	3.00	19.13	9.0	3.88	32
2K105	1/2	3	460	1.28	19.13	9.0	3.88	32
2K201	1	1	115	*11.80	22.81	9.0	3.88	41
2K203	1	1	230	6.40	20.25	9.0	3.88	41
2K204	1	3	230	4.20	19.13	9.0	3.88	36
2K205	1	3	460	1.99	19.13	9.0	3.88	36
2K303	1-1/2	1	230	7.00	20.25	9.0	3.88	47
2K304	1-1/2	3	230	4.80	20.25	9.0	3.88	42
2K305	1-1/2	3	460	2.34	20.25	9.0	3.88	42
2K403	2	1	230	*9.10	24.00	9.0	3.88	52
2K404	2	3	230	7.40	20.25	9.0	3.88	47
2K405	2	3	460	3.50	20.25	9.0	3.88	47





CAT PUMPS

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