

**MOTOR SPECIFICATIONS**

<b>Motor Design</b>	Induction
<b>Motor Type</b>	Enclosed submersible
<b>Insulation Class</b>	Class B
<b>Motor Protection</b>	Bi-metallic Thermal Switch
<b>Bi-Metallic Temp Trip</b>	120° C ± 5° C
<b>Service Factor</b>	1.15
<b>Voltage Tolerance</b>	± 10% from nominal


**MOTOR DATA, 60Hz**

Model	Phase	Output Power BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/Speed (rpm)
SG-500	3	5	208	16.4	82	G	0.933	0.743	2/3450
	3	5	230	14.8	74	G	0.921	0.756	2/3450
	3	5	460	7.4	37	G	0.909	0.801	2/3450
	3	5	575	6	30	G	0.899	0.814	2/3450

**MATERIALS OF CONSTRUCTION**

<b>Upper Motor Lid</b>	FC-20 Cast Iron
<b>Motor Housing</b>	FC-20 Cast Iron
<b>Volute</b>	FC-20 Cast Iron
<b>External Hardware</b>	AISI 304 Stainless Steel
<b>O-Rings</b>	NBR
<b>Motor Shaft</b>	Stainless Steel-410
<b>Upper Bearing</b>	Double row sealed
<b>Lower Bearing(s)</b>	Double row sealed
<b>Upper Shaft Seal</b>	Carbon/Ceramic
<b>Lower Shaft Seal</b>	SiC/SiC
<b>Impeller</b>	FC-20 Cast Iron

**DIMENSIONS, WEIGHT, AND MISC.**

<b>Pump weight three phase</b>	97lbs (44kg)
<b>Maximum submergence</b>	33 feet (10m)
<b>Discharge size, standard</b>	2 inch NPS female horizontal
<b>Maximum temp. of pumped fluid</b>	104°F (40°C)

**CABLE SPECIFICATIONS**

MODEL	PHASE/VOLTAGE	POWER CABLE	LENGTH	OUTER JACKET
SG-500	3Ø 208V	STOW 14/4	33' (10m)	PVC
	3Ø 230V	STOW 14/4	33' (10m)	PVC
	3Ø 460V	STOW 14/4	33' (10m)	PVC
	3Ø 575V	STOW 14/4	33' (10m)	PVC

Power cable suitable for all standard voltages listed in "MOTOR DATA" section.  
 Document valid only for pump with serial number 1327-001 and up.  
 Refer to previous document revision for earlier serial number.

Specifications subject to change without notice



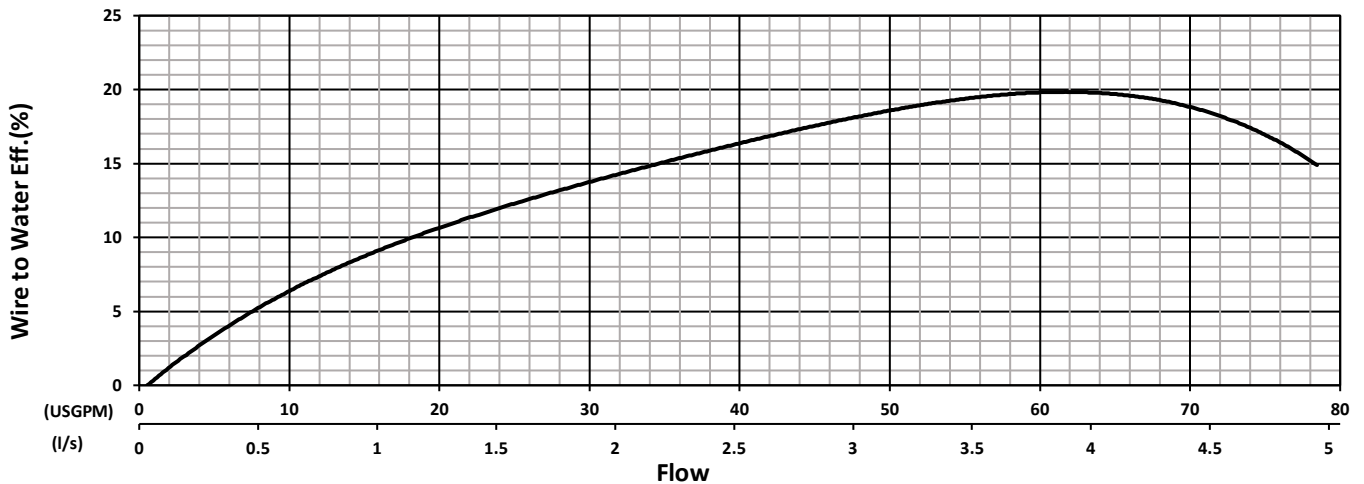
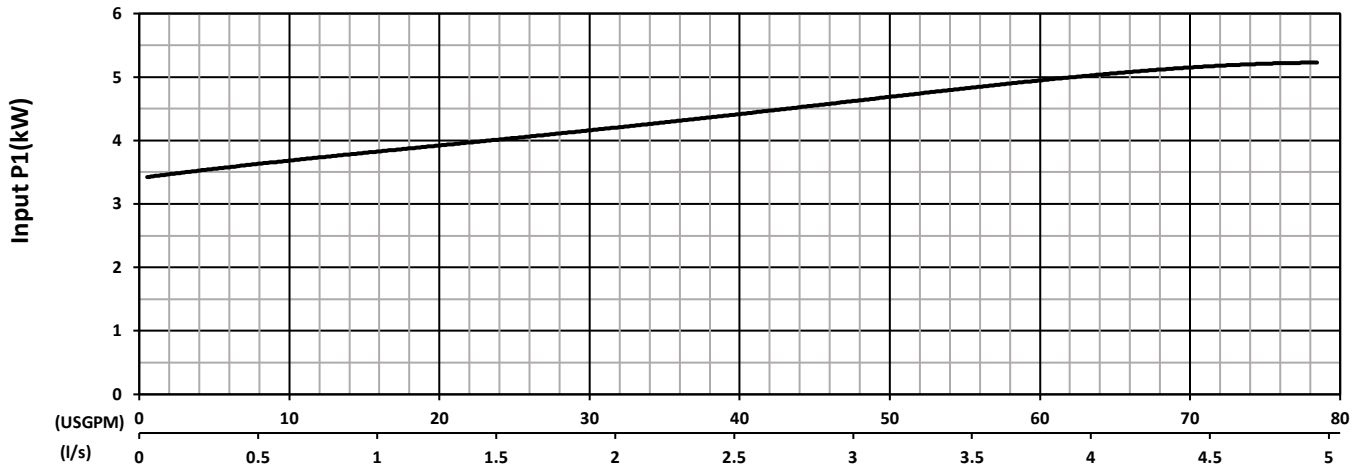
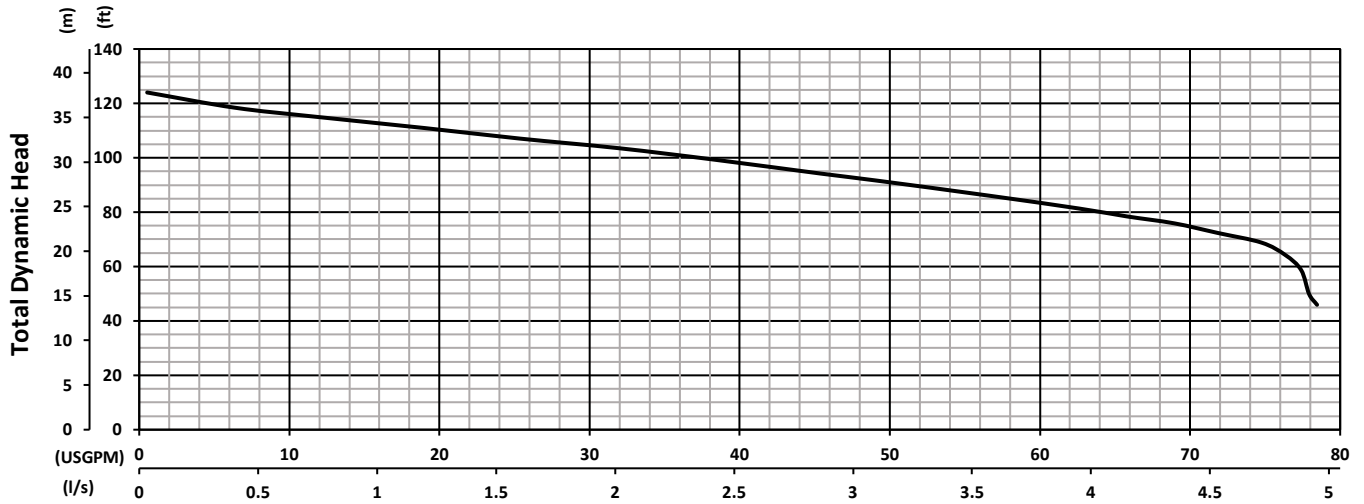
# PERFORMANCE CURVE

# Avenger Series SG-500

Dwg: DS-A10-038

Rev: 1

Date: 12/4/2017



Test Standard : HI 11.6 Gr 3B  
 Tested with water at 20°C

### Pump Performance Test - Dual Units

Frequency 60 Hz  
 Pump Speed 3450 RPM  
 Impeller Ø177mm

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