

MOTOR SPECIFICATIONS

Motor Design	Induction
Motor Type	Enclosed submersible
Insulation Class	Class B
Motor Protection	Bi-metallic Thermal Switch
Bi-Metallic Temp Trip	120° C ± 5° C
Service Factor	1.15
Voltage Tolerance	± 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-750	3	7.5	208	24.5	122.5	G	0.869	0.742	2/3450
	3	7.5	230	22.2	111	G	0.858	0.756	2/3450
	3	7.5	460	11.1	55.5	G	0.846	0.806	2/3450
	3	7.5	575	8.9	44.5	G	0.835	0.821	2/3450

MATERIALS OF CONSTRUCTION

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

DIMENSIONS, WEIGHT, AND MISC.

Pump weight three phase	108lbs (49kg)
Maximum submergence	33 feet (10m)
Discharge size, standard	2 inch NPS female horizontal
Maximum temp. of pumped fluid	104°F (40°C)

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE	LENGTH	OUTER JACKET
SG-750	3Ø 208V	STOW 12/4	33' (10m)	PVC
	3Ø 230V	STOW 12/4	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



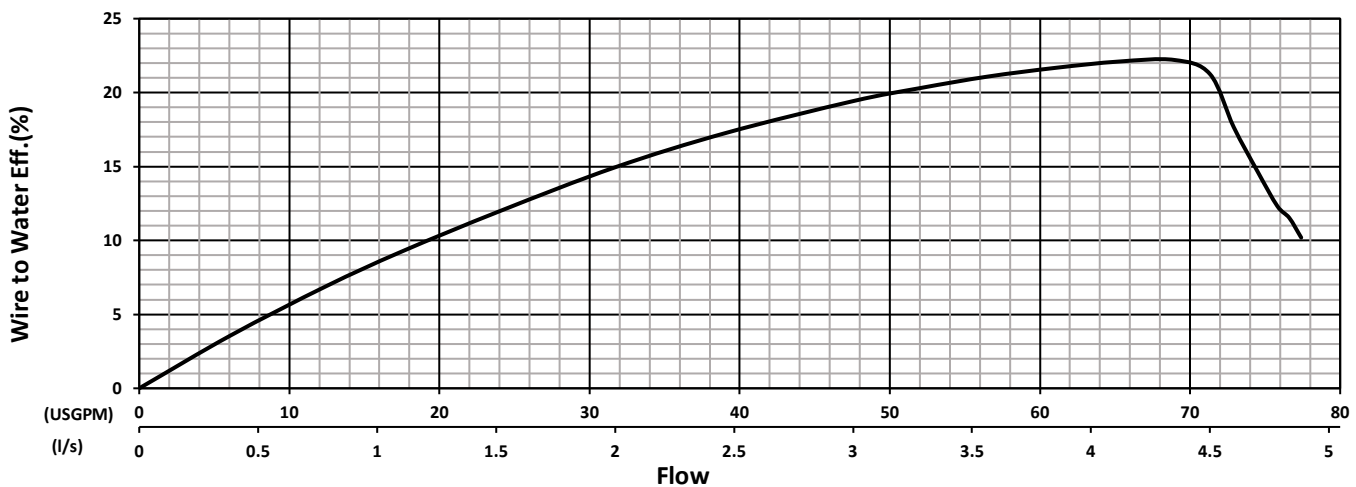
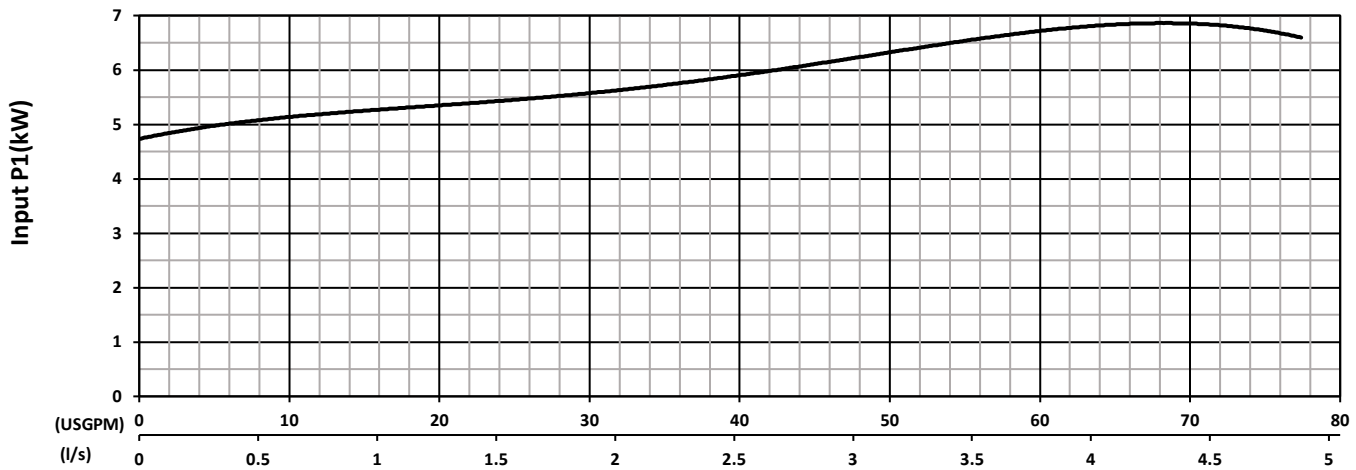
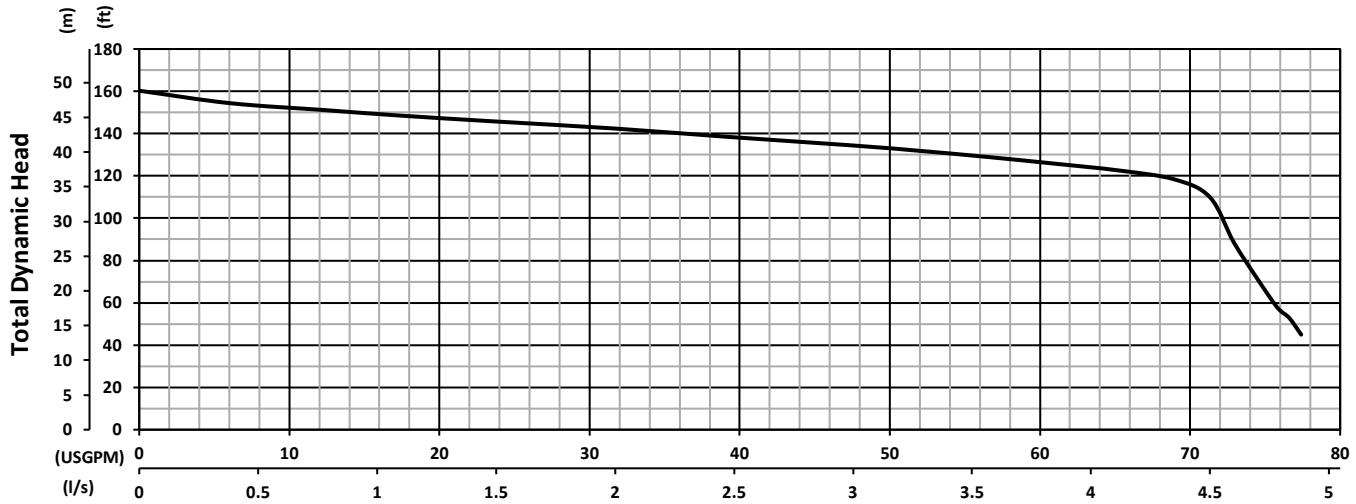
PERFORMANCE CURVE

Avenger Series SG-750

Dwg: DS-A10-042

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 Ø190mm

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