

MOTOR SPECIFICATIONS

Motor Design	NEMA design B, squirrel cage induction, air filled
Motor Type	Enclosed submersible, IP 68
Maximum submergence	65 feet (20m)
Insulation Class	Class F, rated at 155° C
Motor Protection	Bi-metallic Thermal Switch
Bi-Metallic Temp Trip	130° C ± 5° C
Service Factor	1.15
Max. Liquid Temperature	104°F (40°C)
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)
S500	1	4.6	230	18	122.4	G	.83	.76	2/3450
	3	4.6	230	13	88.4	J	.83	.76	2/3450
			460	6.5	44.2	J	.83	.76	2/3450
			575	4.8	35.4	J	.83	.76	2/3450

MATERIALS OF CONSTRUCTION

Material	Standard	High Chrome
Upper Motor Lid	356-T6 Aluminum	356-T6 Aluminum
Motor Housing	356-T6 Aluminum	356-T6 Aluminum
Lower Seal Housing	AISI 304 Stainless Steel	ASTM A532 Class III Type Chromium
Strainer	AISI 304 Stainless Steel	AISI 304 Stainless Steel
Volute	356-T6 Aluminum - Rubber Lined	356-T6 Aluminum- Polyurethane Lined
External Hardware	AISI 304 Stainless Steel	AISI 304 Stainless Steel
O-Rings	NBR	NBR
Motor Shaft	AISI 416 Stainless Steel	AISI 416 Stainless Steel
Upper Bearing	Deep groove ball bearing, double shielded	Deep groove ball bearing, double shielded
Lower Bearing	Double row angular contact ball bearing, double shielded	Double row angular contact ball bearing, double shielded
Shaft Seal	SiC/SiC	SiC/SiC
Impeller	AISI 316 Stainless Steel	ASTM A532 Class III Type Chromium

DIMENSIONS, WEIGHT, AND MISC.

Pump weight (without cable)	77lbs (35kg)
Discharge size, standard	3-inch NPT male vertical
Strainer Opening	8mmx24.5mm

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE	LENGTH	OUTER JACKET
S500	1Ø-230V	SOOW 12/4	50' Standard	CPE, Heavy Duty
	3Ø-230V	SOOW 12/4	50' Standard	CPE, Heavy Duty
	3Ø-460V	SOOW 12/4	50' Standard	CPE, Heavy Duty
	3Ø-575V	SOOW 12/4	50' Standard	CPE, Heavy Duty



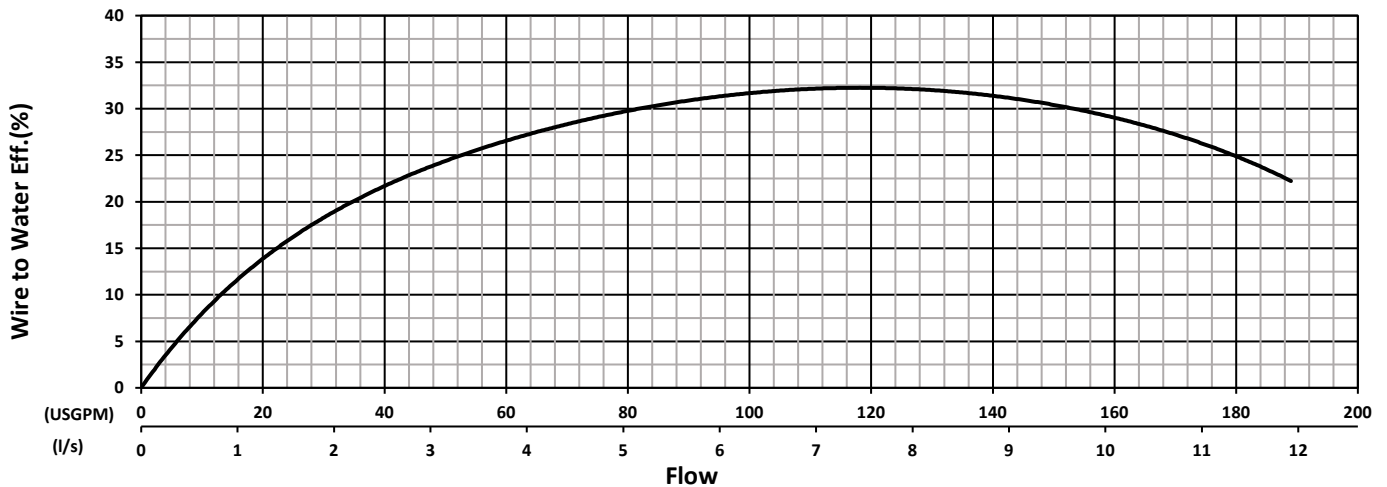
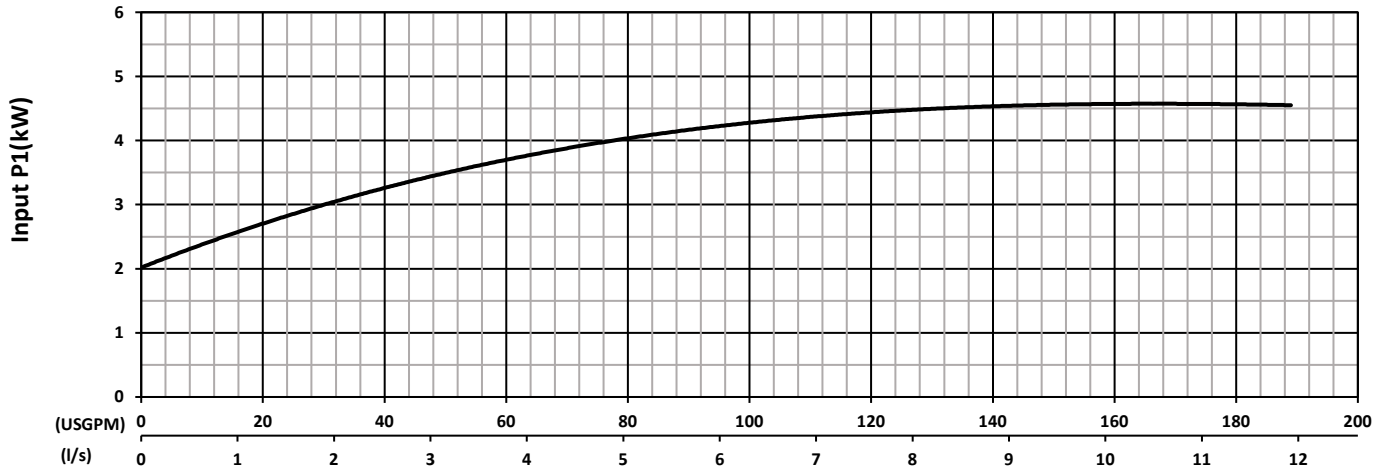
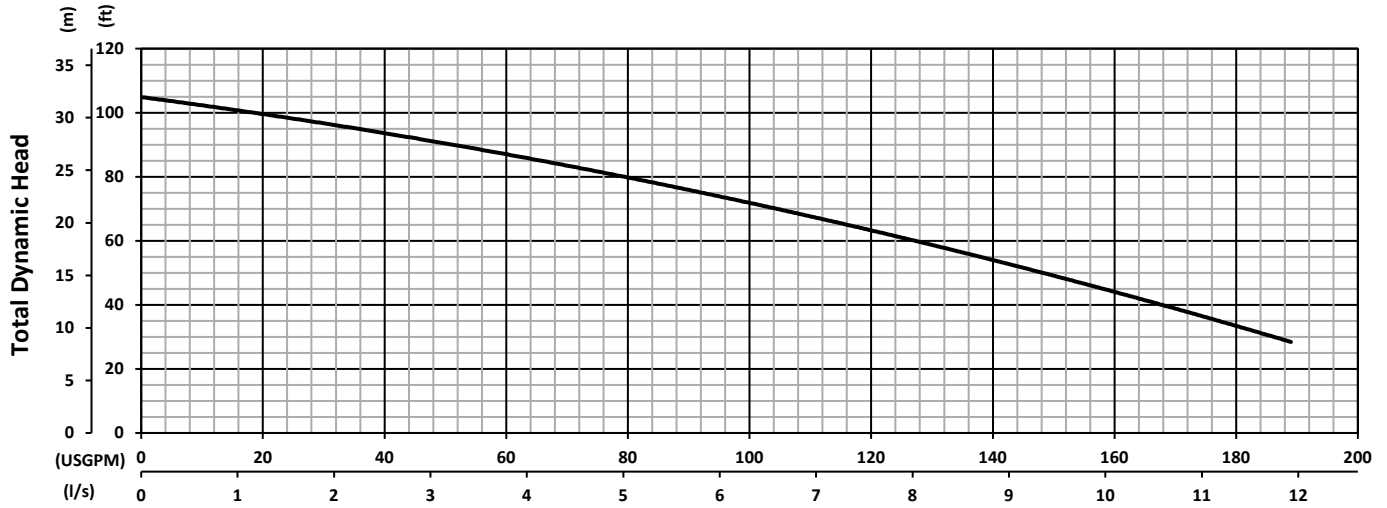
PERFORMANCE CURVE

Dewatering Pump S500 HH

Dwg: DS-A18-047

Rev: 6

Date: 2/19/2025



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

S500 HH - Dual Units

Frequency 60 Hz
Pump Speed 3450 RPM
Impeller 160mm

Specifications subject to change without notice



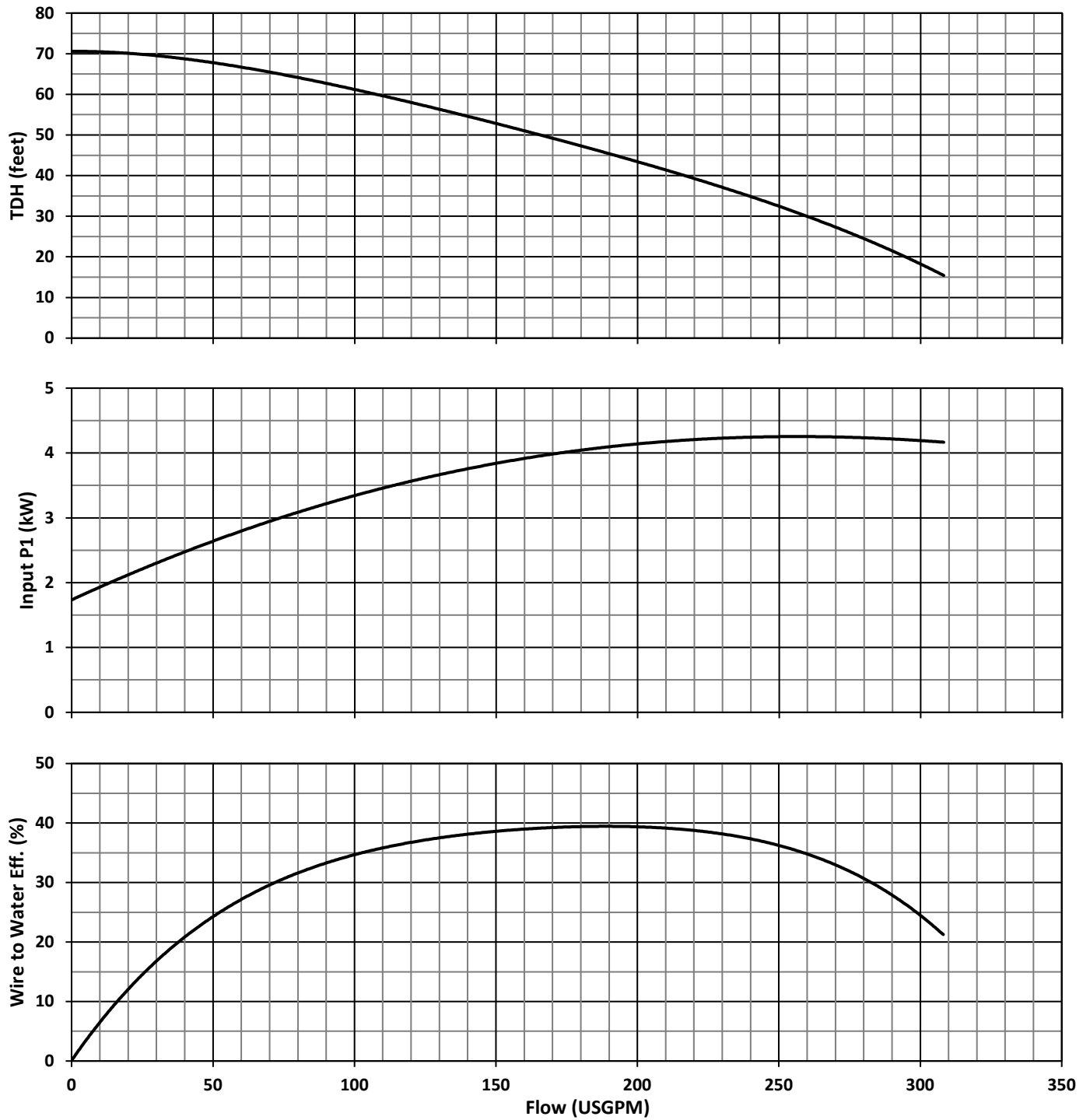
PERFORMANCE CURVE

Dewatering Pumps S500 HV

Dwg: DS-A18-008

Rev: 4

Date: 11/7/2016



Pump Performance Test - US Units

Test Standard : HI 11.6 Gr 3B

Tested with water at 20°C

Frequency 60 Hz

Pump Speed 3450 RPM

Impeller Ø125mm

Specifications subject to change without notice