



INDUSTRIAL
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TECHNICAL DATA

Stancor® Dewatering Pumps S500 HH & HV

Dwg: DS-A18-006 Rev: 7 Date: 2/23/2026

Motor Specifications

Motor Design	NEMA design B, squirrel cage induction, air filled
Motor Type	Enclosed submersible, IP 68
Maximum	65 feet (20m)
Insulation Class	Class H, rated at 180° C (356° F)
Motor Protection	Bi-metallic Thermal Switch
Bi-Metallic Temp Trip	130° C ± 5° C (266° F ± 41° F)
Service Factor	1.15
Max. Liquid	104°F (40°C)
Voltage Tolerance	± 10% from nominal
CSA Approval (Optional Upon Request)	CSA-C22.2 No. 108-14 - CSA-C22.2 No. 77-95 (R 2009)



Motor Data, 60Hz

Model	Phase	Output Power BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor	Motor Efficiency	Pole/ Speed (Rpm)
S500	1Ø	4.6	230V	18	122.4	G	0.83	0.76	2/3450
			208V	14.4	97.8	H	0.83	0.76	2/3450
	3Ø		230V	13	88.4	J	0.83	0.76	2/3450
			460V	6.5	44.2	J	0.83	0.76	2/3450
			575V	4.8	35.4	J	0.83	0.76	2/3450

Materials of Construction

	Standard	High Chrome
Upper Motor Lid	356-T6 Aluminum	356-T6 Aluminum
Motor Housing	356-T6 Aluminum	356-T6 Aluminum
Lower Seal Housing	AISI 316 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 10/4	50' Standard	CPE, Heavy Duty
		208V	SOOW 12/4	50' Standard	CPE, Heavy Duty
	3Ø	230V	SOOW 12/4	50' Standard	CPE, Heavy Duty
		460V	SOOW 12/4	50' Standard	CPE, Heavy Duty
		575V	SOOW 12/4	50' Standard	CPE, Heavy Duty

* Additional cable sizes and materials available for standard and CSA models upon request.

Specifications subject to change without notice

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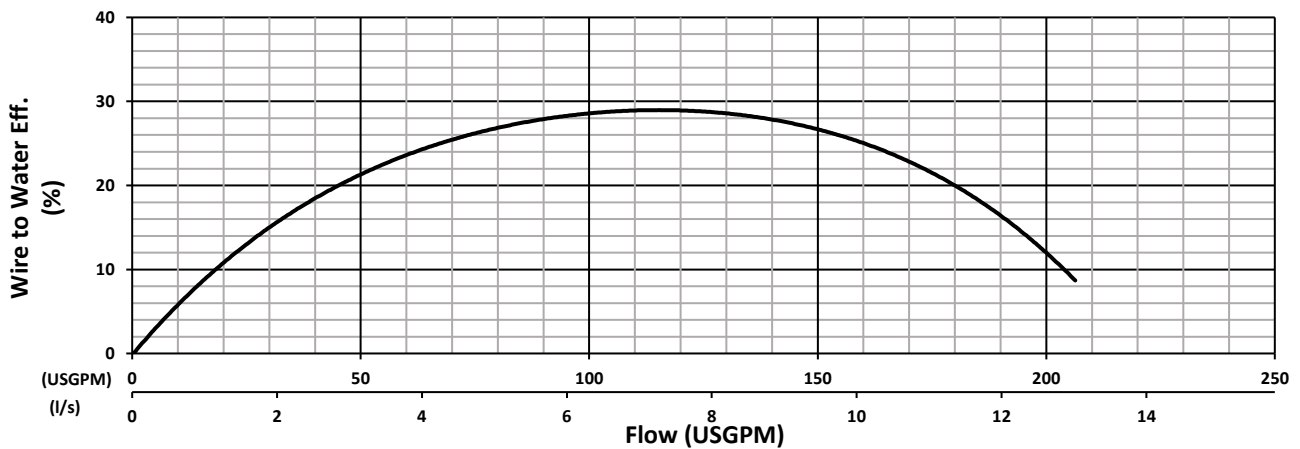
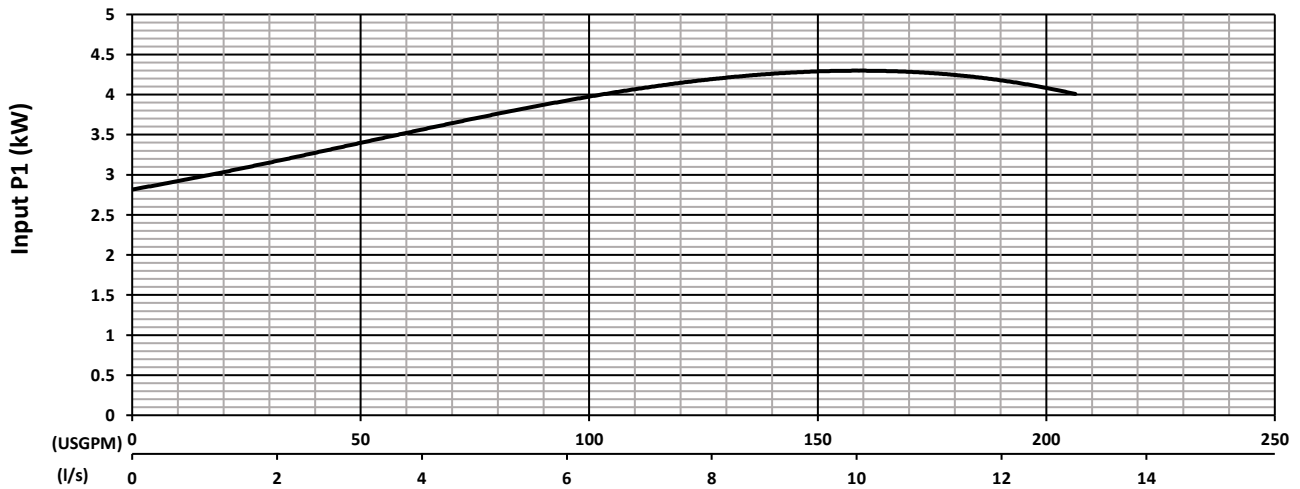
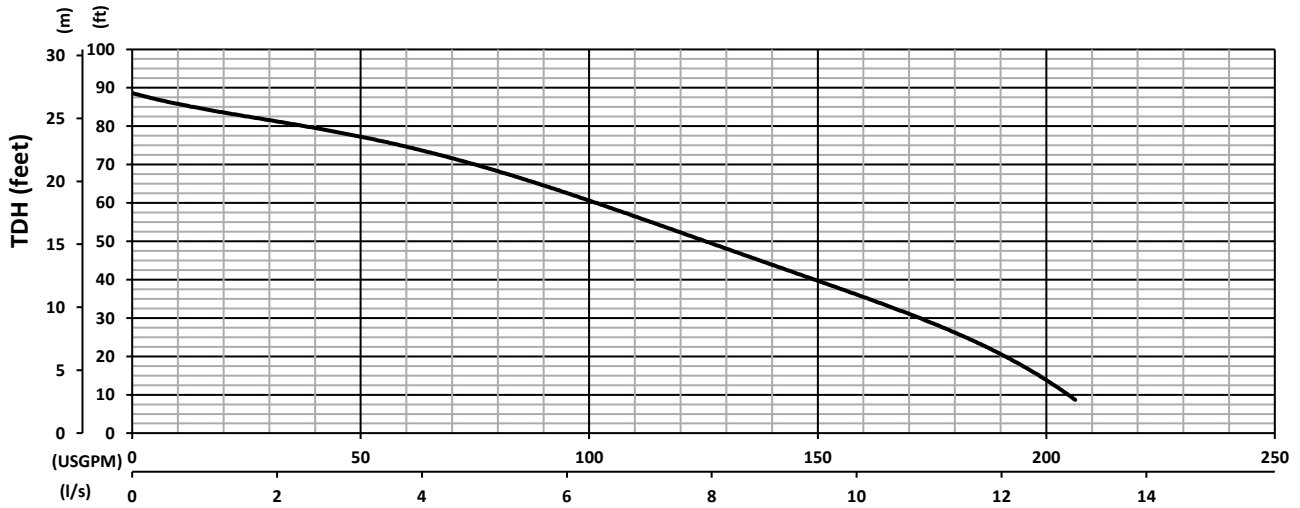


INDUSTRIAL
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PERFORMANCE CURVE

Stancor® Dewatering Pumps S500 HH 1Ø

Dwg:	DS-A18-118	Rev:	2	Date:	12/18/25
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Test Standard : HI 11.6 Gr 3B
Tested with water at 20°C

Dewatering Pumps S500 HH 1Ø - Dual Uni Frequency 60 Hz
Pump Speed 3450 RPM
Impeller 153mm

Specifications subject to change without notice

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PERFORMANCE CURVE

Stancor® Dewatering Pumps S500 HV 1Ø

Dwg:

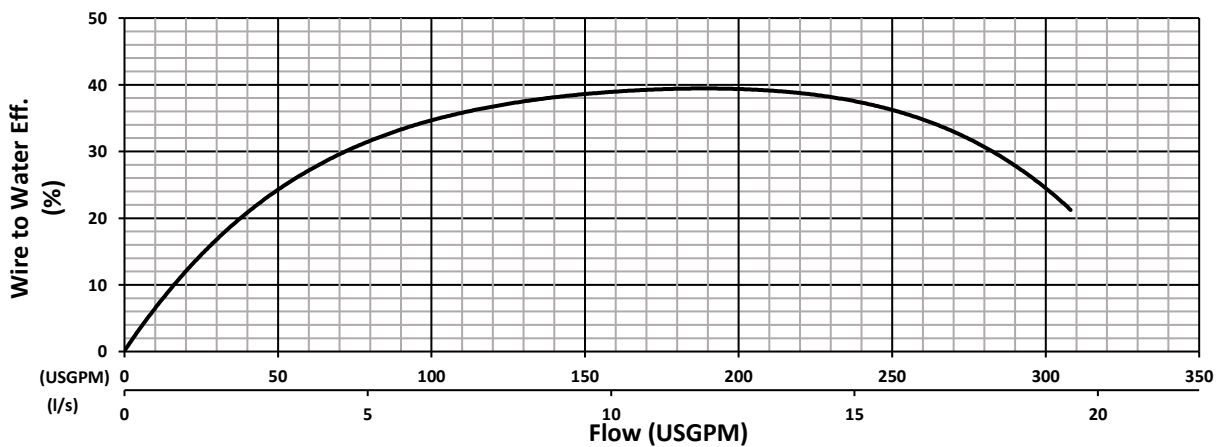
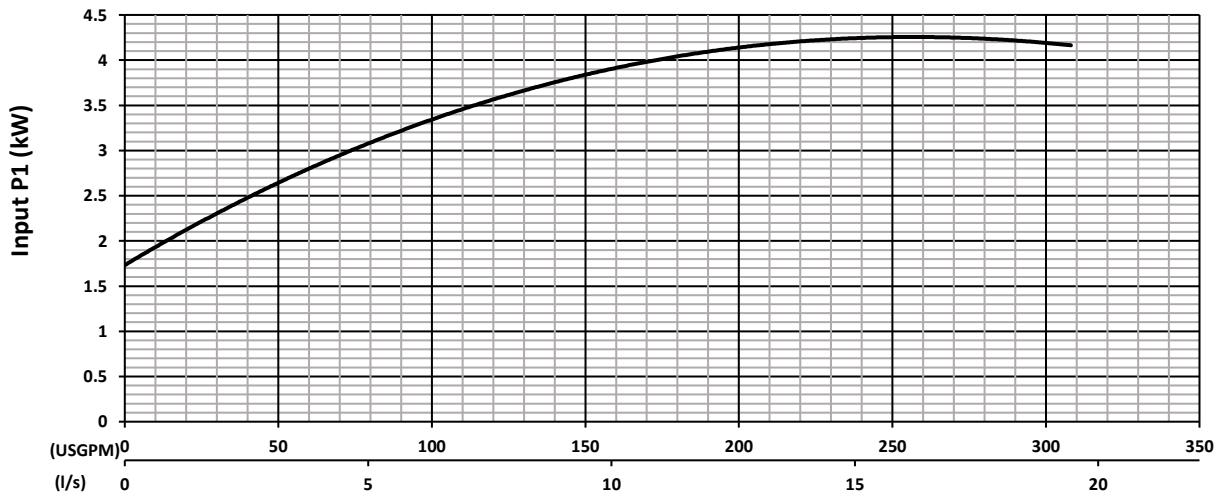
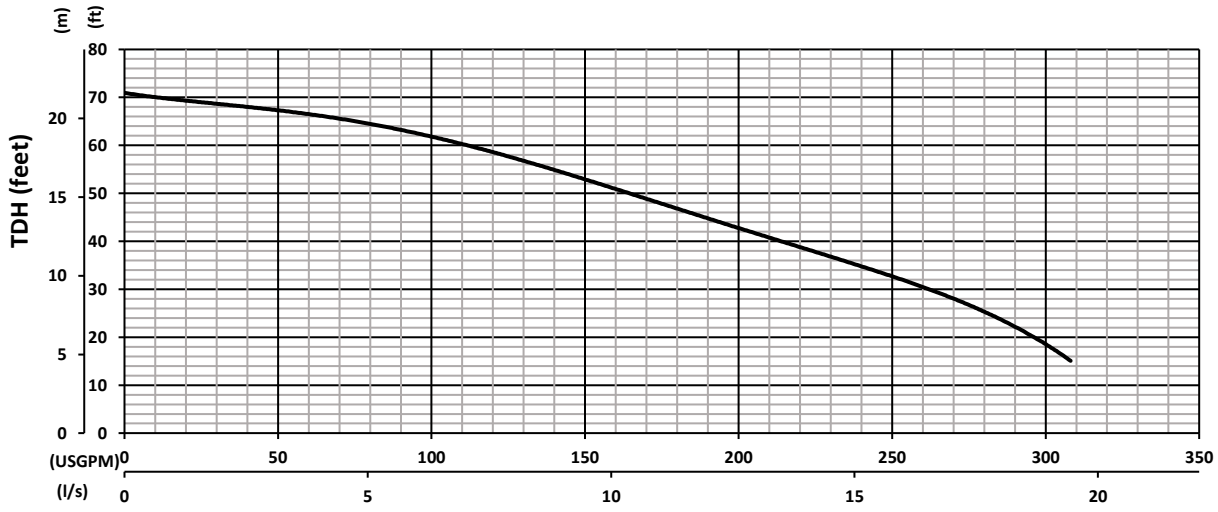
DS-A18-119

Rev:

2

Date:

12/18/25



Test Standard : HI 11.6 Gr 3B

Tested with water at 20°C

Dewatering Pumps S500 HV 1Ø - Dual Uni Frequency

60 Hz

Pump Speed

3450 RPM

Impeller

125mm

Specifications subject to change without notice

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