




INDUSTRIAL
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TECHNICAL DATA

Stancor® Dewatering Pumps S4500 HH/HV/MR V2

Dwg: DS-A18-053 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)
Minimum Submergence	Class H, rated at 180° C (356° F)
Insulation Class	Class F, rated at 155° C
Motor Protection	130° C ± 5° C (266° F ± 41° F)
Bi-Metallic Temp Trip	130° C ± 5° C
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	100% Load		Pole/ Speed (Rpm)
							Power Factor	Motor Efficiency	
S4500	3Ø	45	460V	52	290	F	0.89	0.89	2/3450
			575V	41	232	F	0.89	0.89	2/3450
			950V	25	140.42	F	0.89	0.89	2/3450

Materials of Constuction

	Standard	High Chrome
Upper Motor Lid	356-T6 Aluminum	356-T6 Aluminum
Motor Housing	356-T6 Aluminum	356-T6 Aluminum
Lower Seal Housing	356-T6 Aluminum	ASTM A532 Class III Type Chromium
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 sealed	Deep groove ball bearing, double sealed
Lower Bearing(s)	Two heavy duty angular contact ball bearings	Double row angular contact ball bearing, double shielded
Upper Shaft Seal	Carbon/Ceramic	Carbon/Ceramic
Lower Shaft Seal	SiC/SiC	SiC/SiC
Impeller HH	AISI 316 Stainless Steel	ASTM A532 Class III Type Chromium
Impeller HV	17-4PH Stainless Steel	ASTM A532 Class III Type Chromium
Impeller MR	AISI 316 Stainless Steel	ASTM A532 Class III Type Chromium

DIMENSIONS, WEIGHT, AND MISC.

Pump weight (without cable)	345 lbs (156.5kg)
Discharge size, HH	4 inch NPT male vertical
Discharge size, HV	6 inch NPT male vertical
Discharge size, MR	4 inch NPT male vertical / 6 inch NPT male vertical

CABLE SPECIFICATIONS

Model	Phase/Voltage	Power Cable*	Length	Outer Jacket	
S4500	3Ø	460V	6/3, 4/3, 2/3 G-GC	50' Standard	CPE, Heavy Duty
		575V	6/3, 4/3, 2/3 G-GC	50' Standard	CPE, Heavy Duty
		950V	6/3 SHD-GC, 4/3, 2/3 SHD-GC	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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PERFORMANCE CURVE

Stancor® Dewatering Pumps S4500 HV

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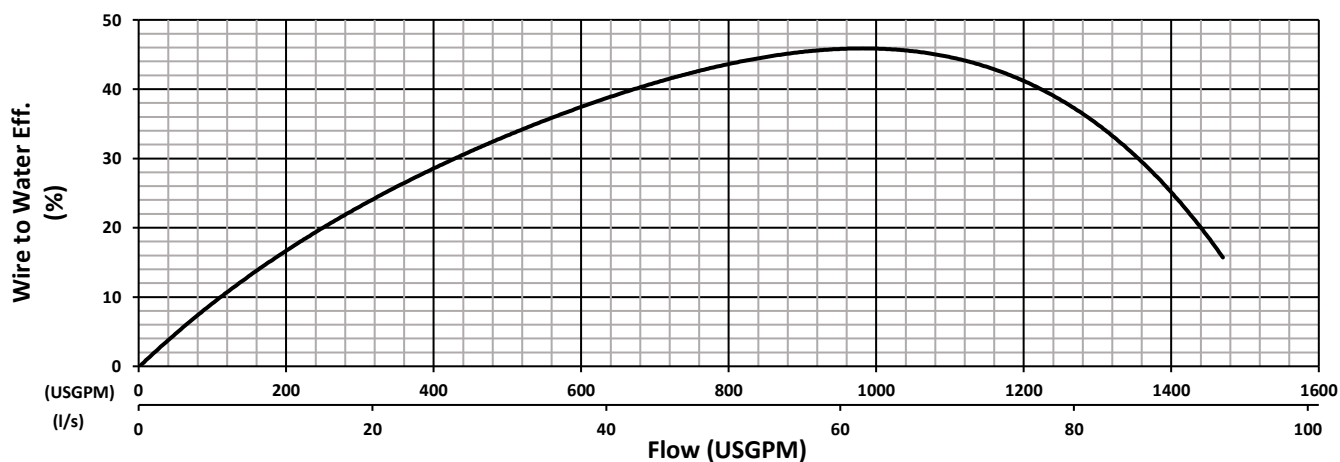
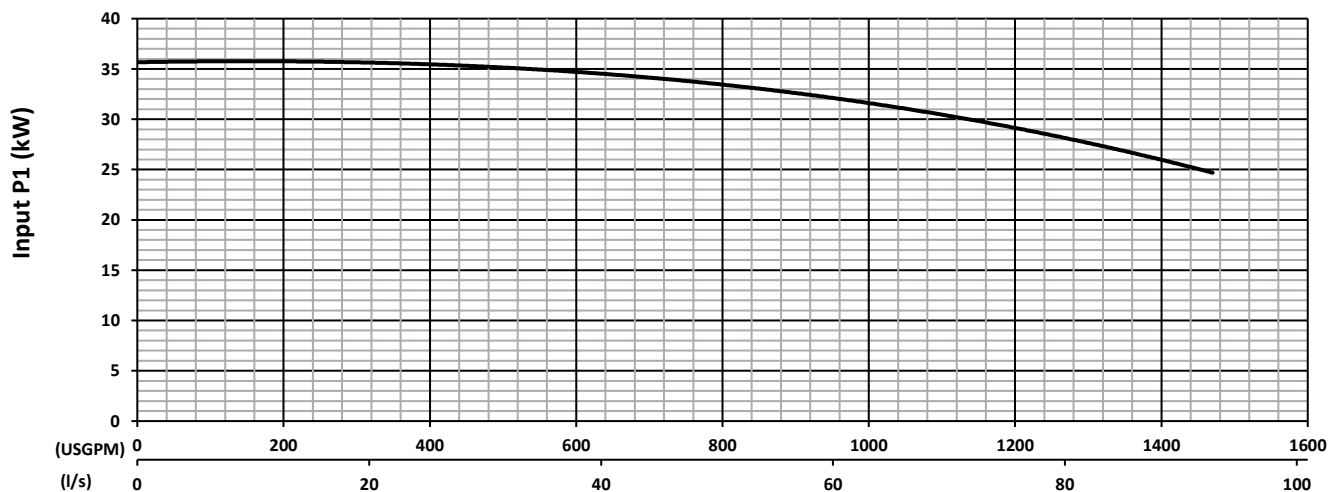
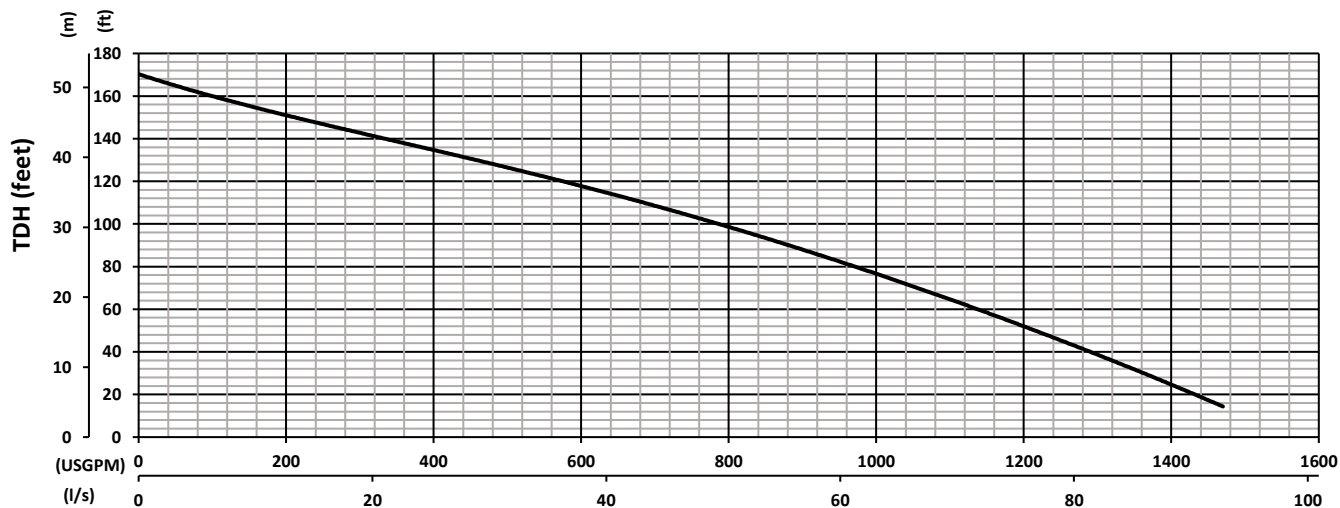
DS-A18-048

Rev:

4

Date:

12/18/25



Test Standard : HI 11.6 Gr 3B

Tested with water at 20°C

Dewatering Pumps S4500 HV - Dual Units

Frequency

60 Hz

Pump Speed

3450 RPM

Impeller

182mm

Specifications subject to change without notice

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Stancor® Dewatering Pumps S4500MR

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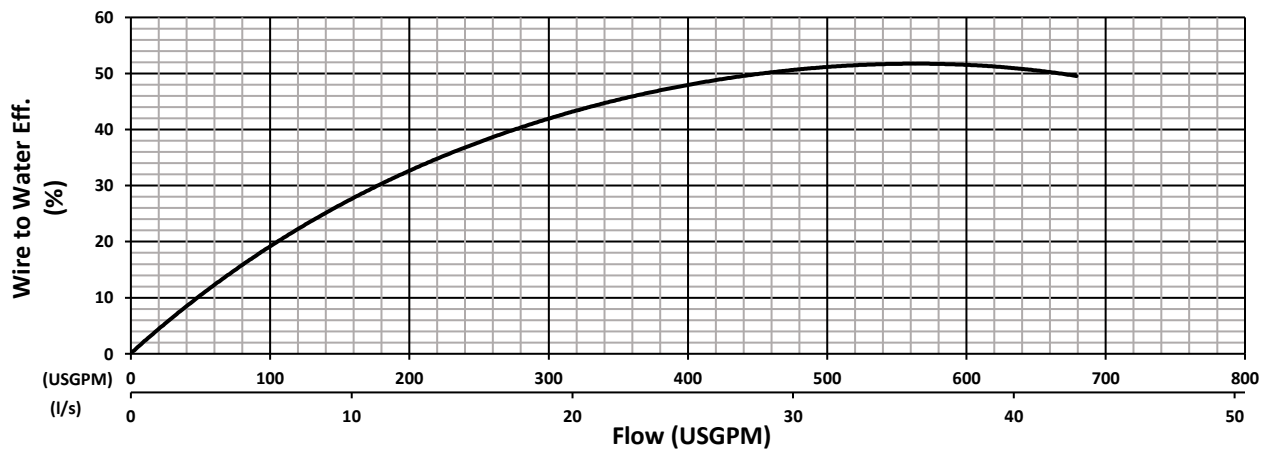
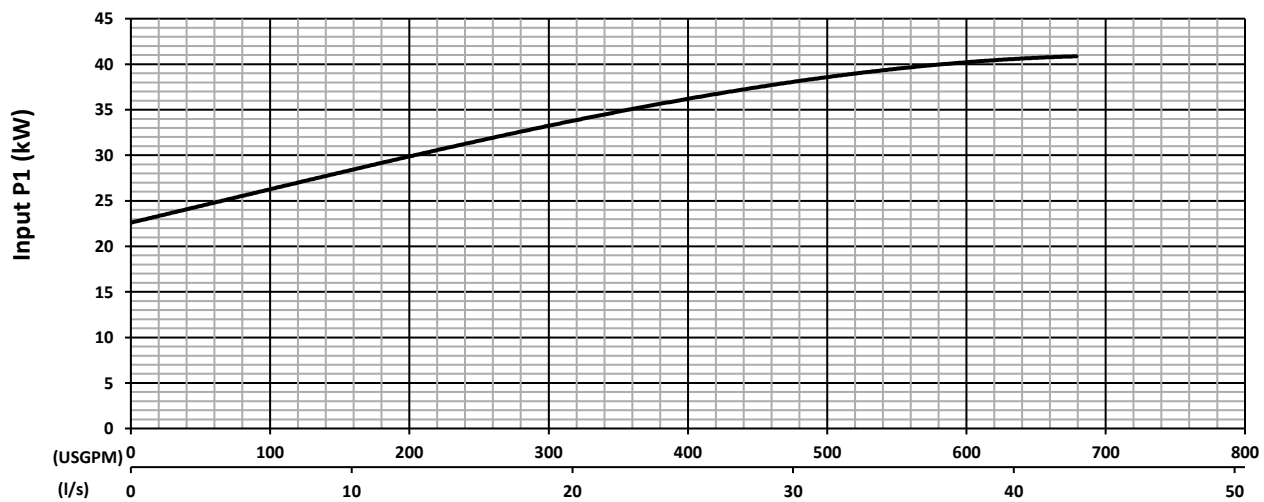
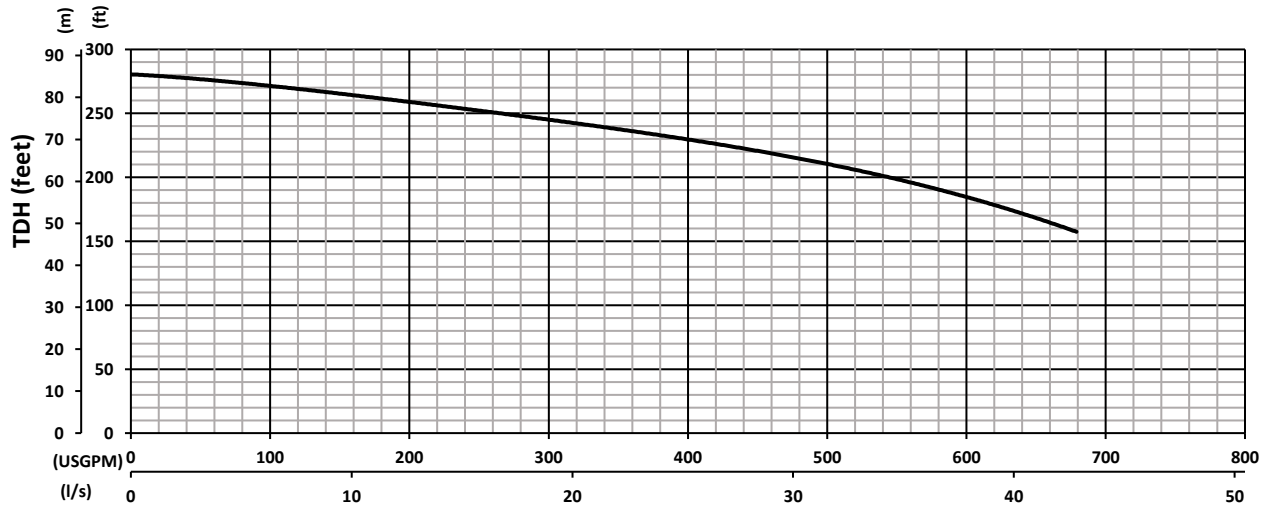
DS-A18-146

Rev:

2

Date:

12/18/25



Test Standard : HI 11.6 Gr 3B

Tested with water at 20°C

Dewatering Pumps S4500MR - Dual Units

Frequency 60 Hz

Pump Speed 3450 RPM

Impeller 225mm

Specifications subject to change without notice

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