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## TECHNICAL DATA

## Mine Dewatering Pumps SX4500 HH/HV/MR V2

Dwg: DS-A16-053 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 Submergence	65 feet (20m)
Minimum Submergence	3 feet (0.9m)
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
MSHA Approval	2G-3142A-1



### 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	
SX4500	3Ø	45	460V	52	290	F	0.89	0.89	3450
			575V	41	232	F	0.89	0.89	3450
			950V	25	140.42	F	0.89	0.89	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
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	
SX4500	3Ø	460V	6/3, 4/3, 2/3 G-GC	Per MSHA Approval	CPE, Heavy Duty
		575V	6/3, 4/3, 2/3 G-GC	Per MSHA Approval	CPE, Heavy Duty
		950V	6/3, 4/3, 2/3 SHD-GC	Per MSHA Approval	CPE, Heavy Duty

\* Cable size and length per MSHA approval.



Specifications subject to change without notice

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# PERFORMANCE CURVE

# Stancor® Mine Dewatering Pumps SX4500 HV

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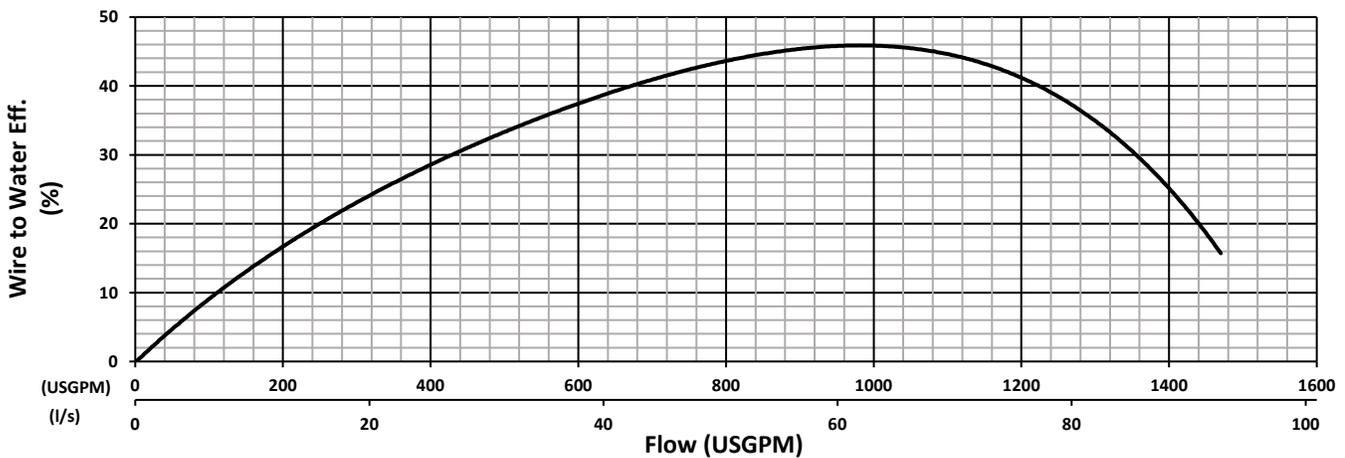
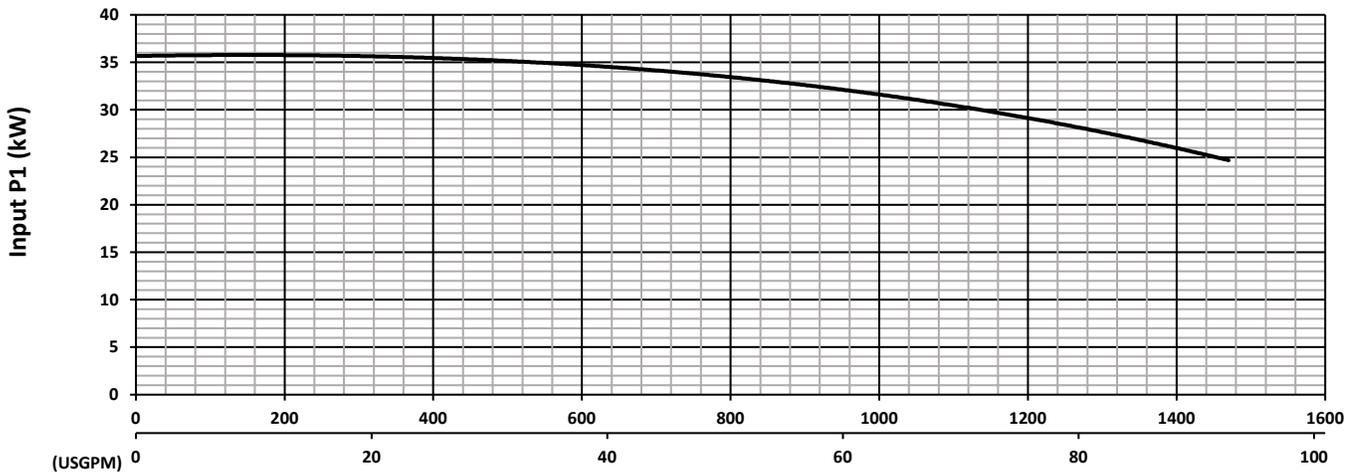
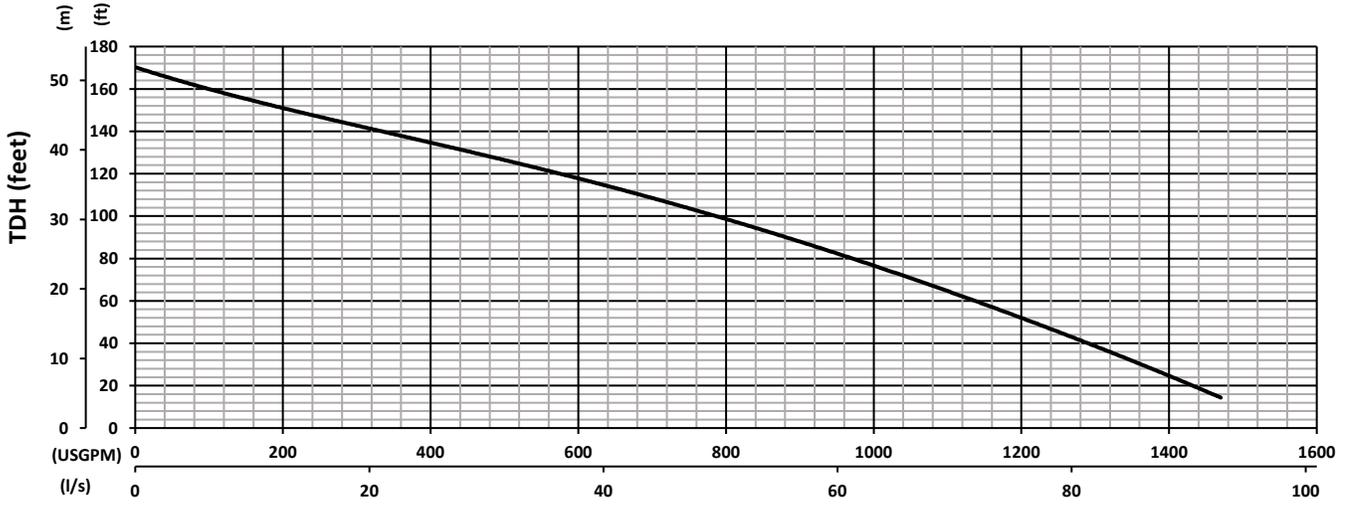
DS-A16-040

Rev:

4

Date:

12/18/2025



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

Mine Dewatering Pumps SX4500 HV - Dual Units

Frequency 60 Hz  
Pump Speed 3450 RPM  
Impeller 182mm

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# PERFORMANCE CURVE

# Stancor® Mine Dewatering Pumps SX4500 HH

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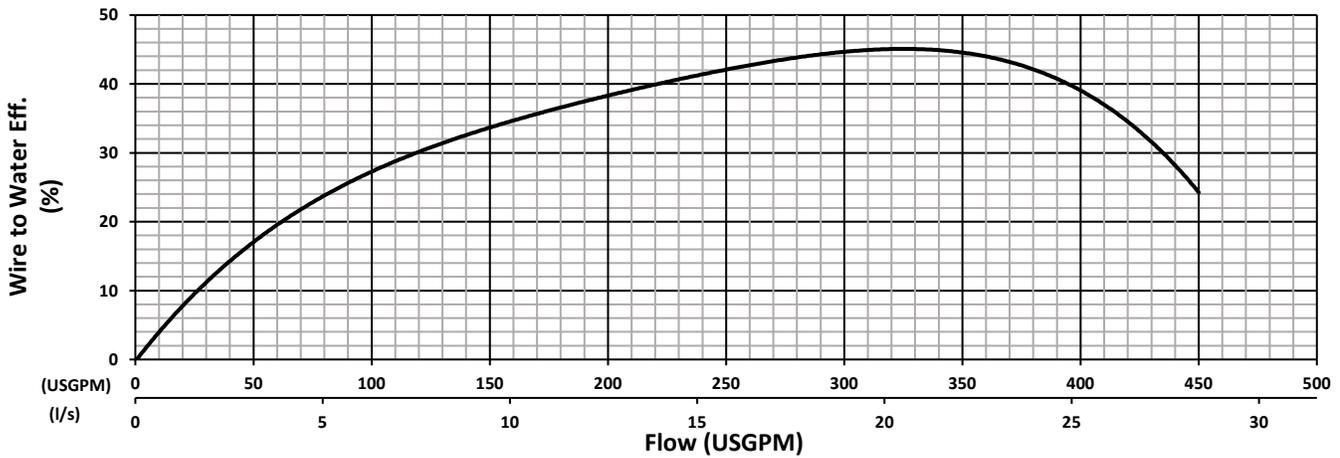
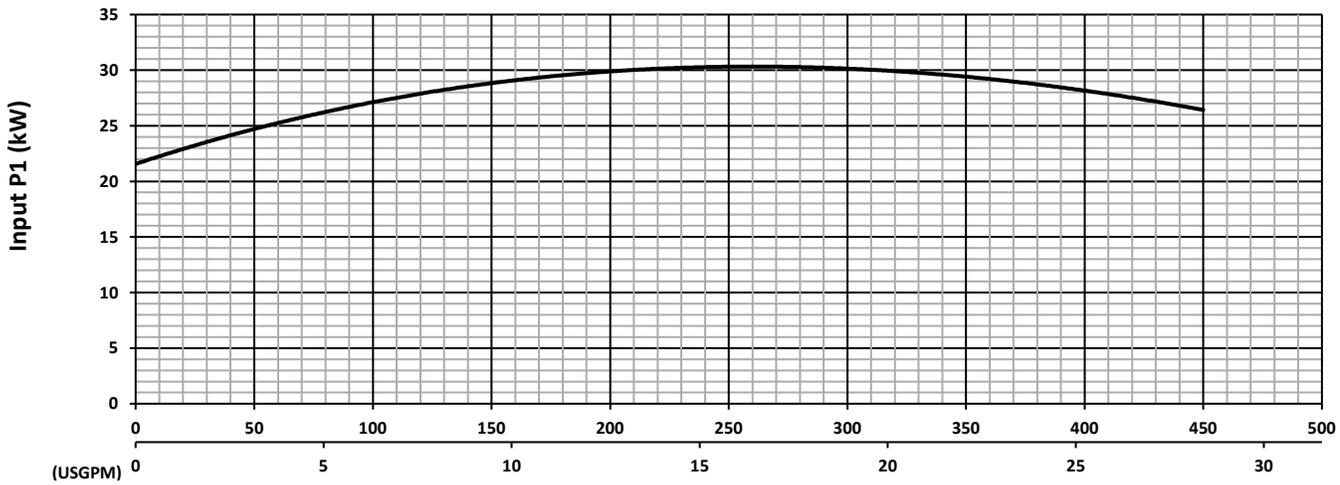
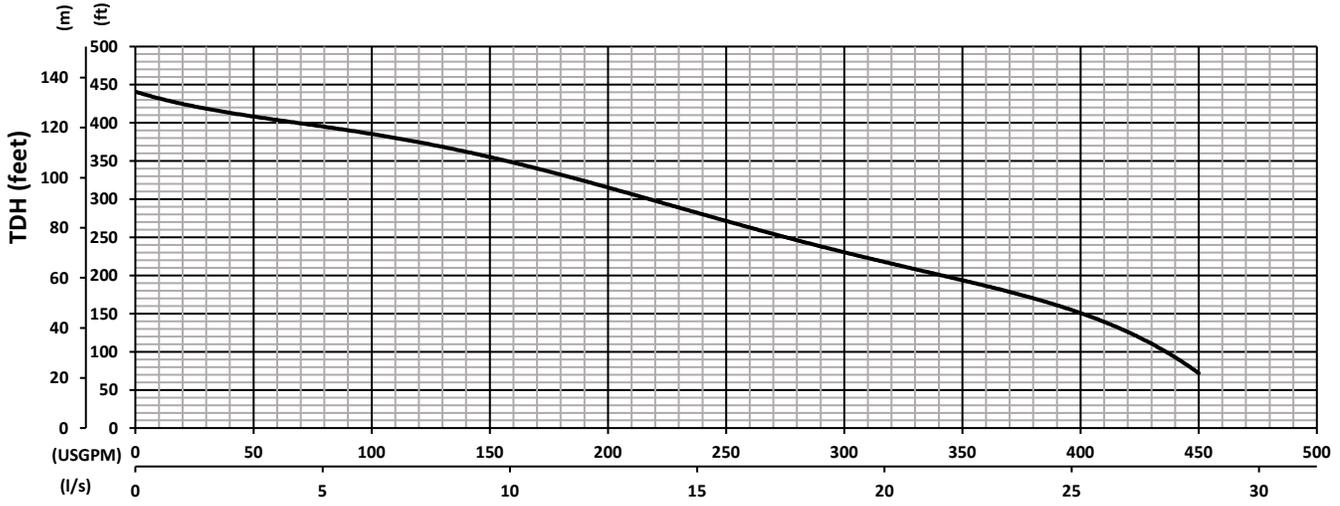
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Rev:

4

Date:

12/18/2025



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

Mine Dewatering Pumps SX4500 HH - Dual Units

Frequency	60 Hz
Pump Speed	3450 RPM
Impeller	217mm

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# PERFORMANCE CURVE

# Stancor® Mine Dewatering Pumps SX4500 MR

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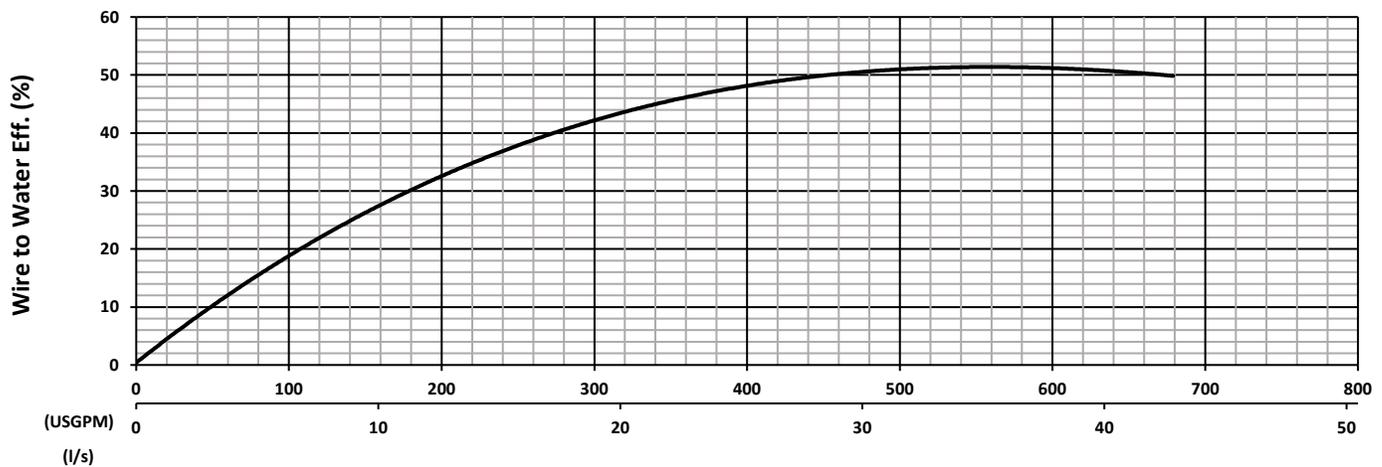
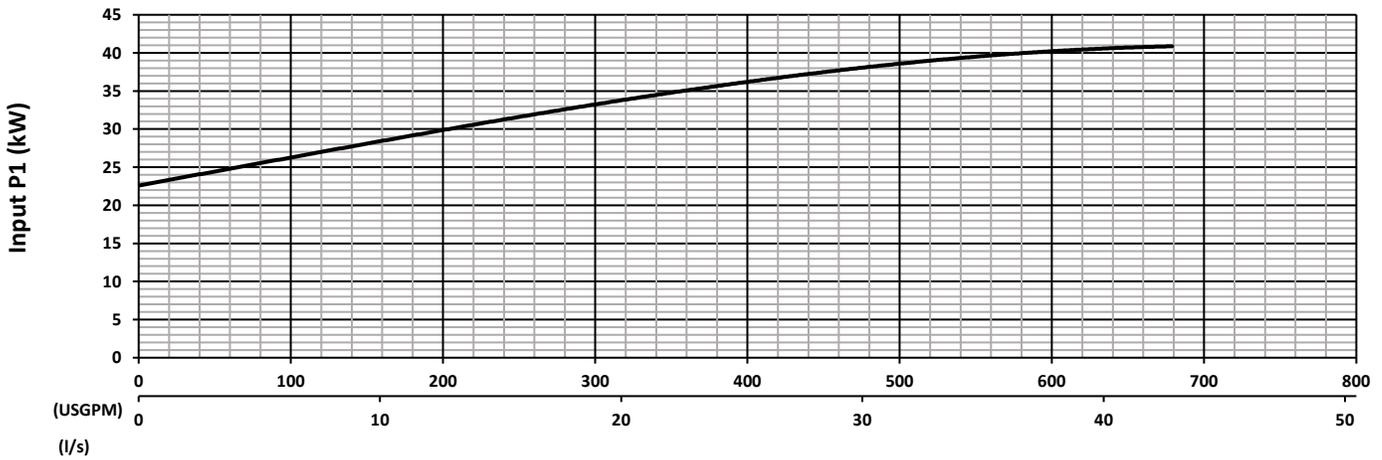
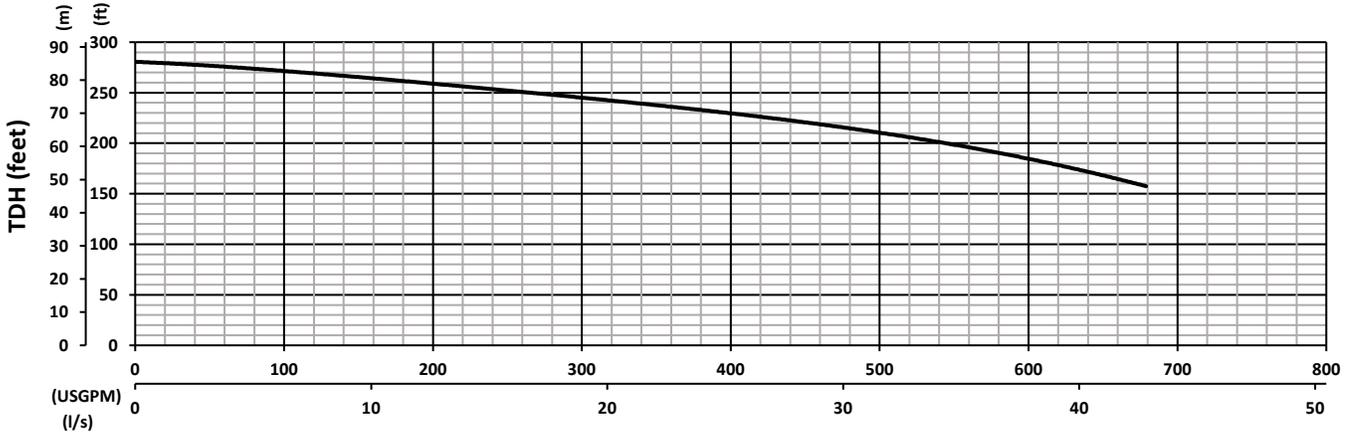
DS-A16-130

Rev:

2

Date:

12/18/2025



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

### Mine Dewatering Pumps - Dual Units

Frequency 60 Hz  
Pump Speed 3450 RPM  
Impeller 225mm

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