

### MOTOR SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| <b>Motor Design</b>            | NEMA design B, squirrel cage induction, air filled |
| <b>Motor Type</b>              | Enclosed submersible, IP 68                        |
| <b>Maximum Submergence</b>     | 65 feet (20m)                                      |
| <b>Minimum Submergence</b>     | 2 feet (0.7m)                                      |
| <b>Insulation Class</b>        | Class F, rated at 155° C                           |
| <b>Motor Protection</b>        | Bi-metallic Thermal Switch                         |
| <b>Bi-Metallic Temp Trip</b>   | 130° C ± 5° C                                      |
| <b>Service Factor</b>          | 1.15   |
| <b>Max. Liquid Temperature</b> | 104°F (40°C)                                       |
| <b>Voltage Tolerance</b>       | ± 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) |
|-------|-------|------------------|-------|----------------|-------------------|------------------|------------------------|----------------------------|------------------|
| S1500 | 3     | 15               | 230   | 40             | 250               | J                | 0.83                   | 0.85                       | 2/3450           |
|       |       |                  | 460   | 20             | 125               | J                | 0.83                   | 0.85                       | 2/3450           |
|       |       |                  | 575   | 14             | 87.5              | H                | 0.83                   | 0.85                       | 2/3450           |
|       |       |                  | 950   | 12             | 75                | L                | 0.83                   | 0.85                       | 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                        |
| 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      | Double row angular contact ball bearing, double shielded | 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) | 244 lbs (110.7 kg)                                  |
| 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 |
| Strainer Opening            | 9mmX22mm  |

### CABLE SPECIFICATIONS

| MODEL | PHASE/VOLTAGE | POWER CABLE *                           | LENGTH *     | OUTER JACKET    |
|-------|---------------|---|--------------|-----------------|
| S1500 | 3Ø-230V       | 8/3 G-GC, 6/3 G-GC, 4/3 G-GC            | 50' Standard | CPE, Heavy Duty |
|       | 3Ø-460V       | 10/5 SOOW, 8/3 G-GC, 6/3 G-GC, 4/3 G-GC | 50' Standard | CPE, Heavy Duty |
|       | 3Ø-575V       | 10/5 SOOW, 8/3 G-GC, 6/3 G-GC, 4/3 G-GC | 50' Standard | CPE, Heavy Duty |
|       | 3Ø-950V       | 6/3 SHD-GC, 4/3 SHD-GC                  | 50' Standard | CPE, Heavy Duty |



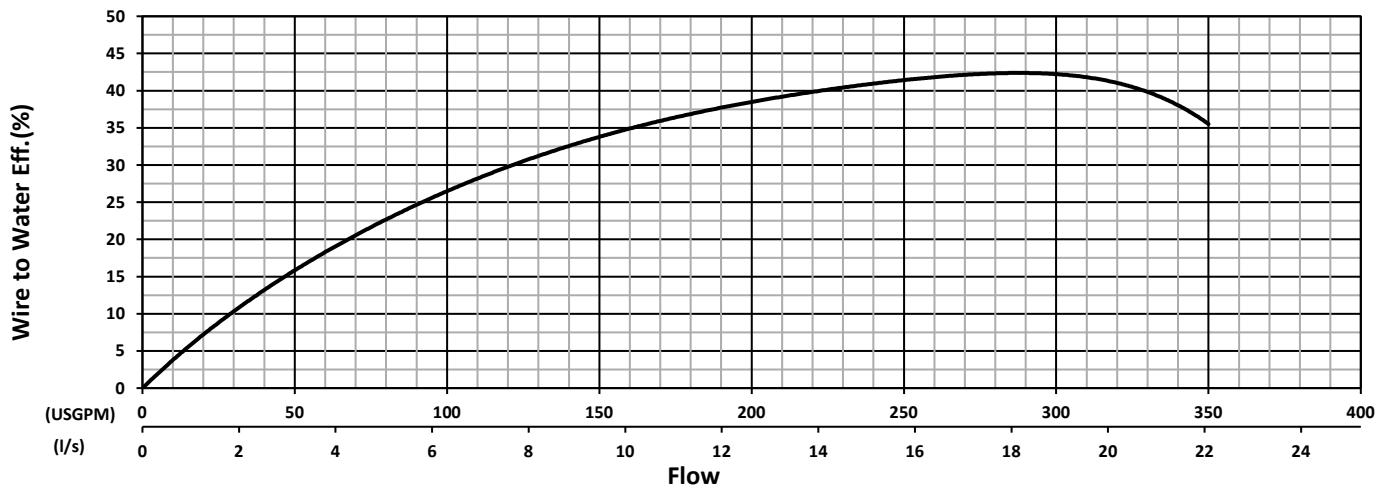
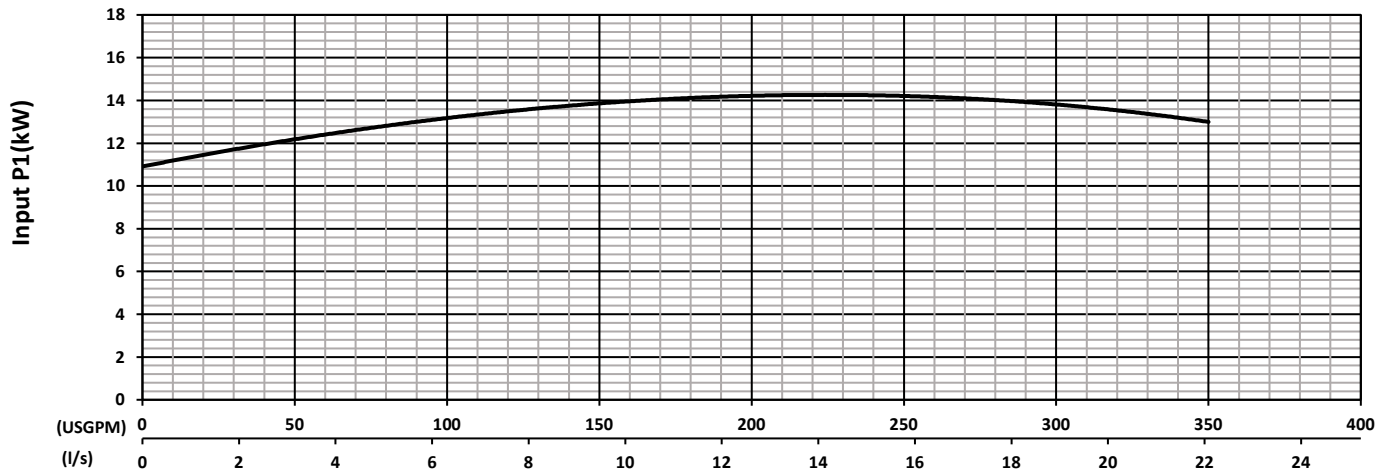
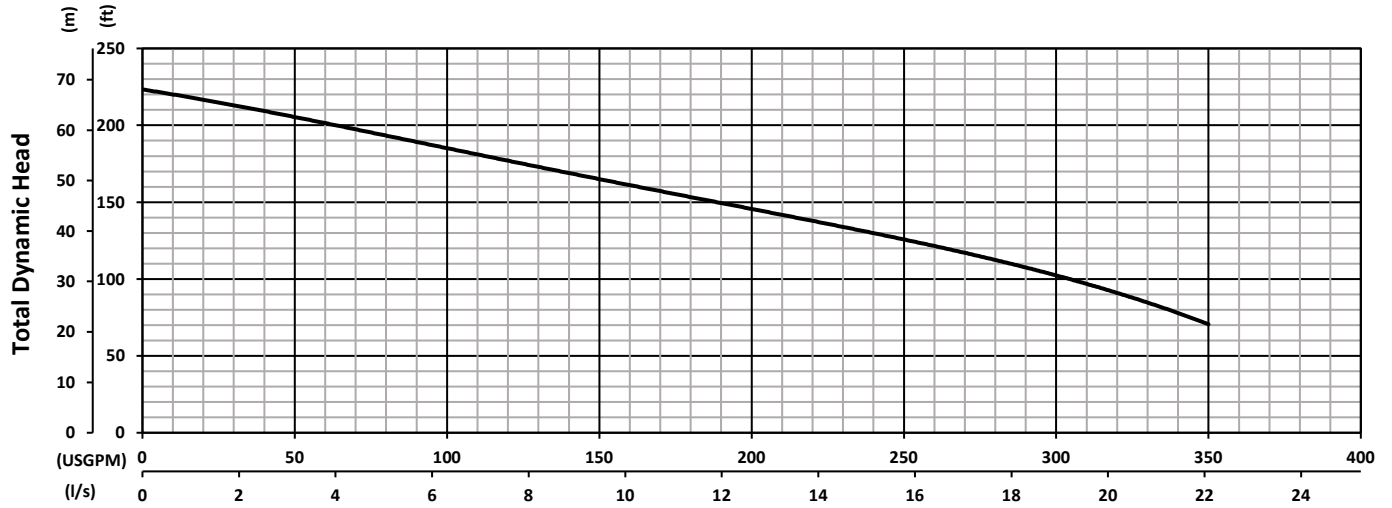
# PERFORMANCE CURVE

# Dewatering Pumps S1500 HH

Dwg: DS-A18-062

Rev: 5

Date: 1/26/2024



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

S1500 HH - Dual Units

Frequency 60 Hz  
Pump Speed 3450 RPM  
Impeller 217mm

Specifications subject to change without notice



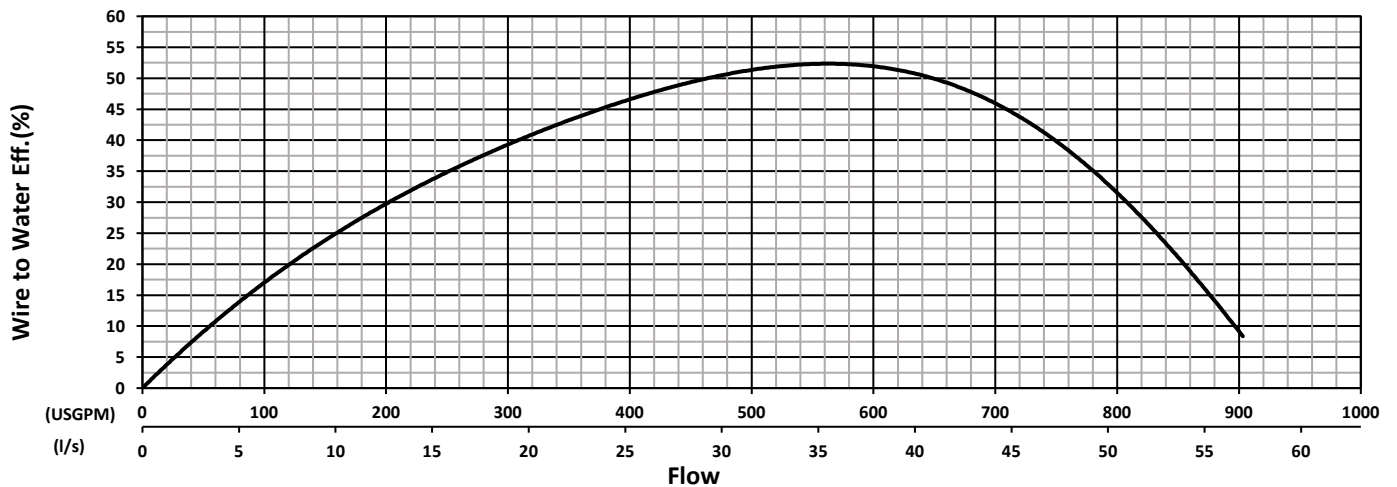
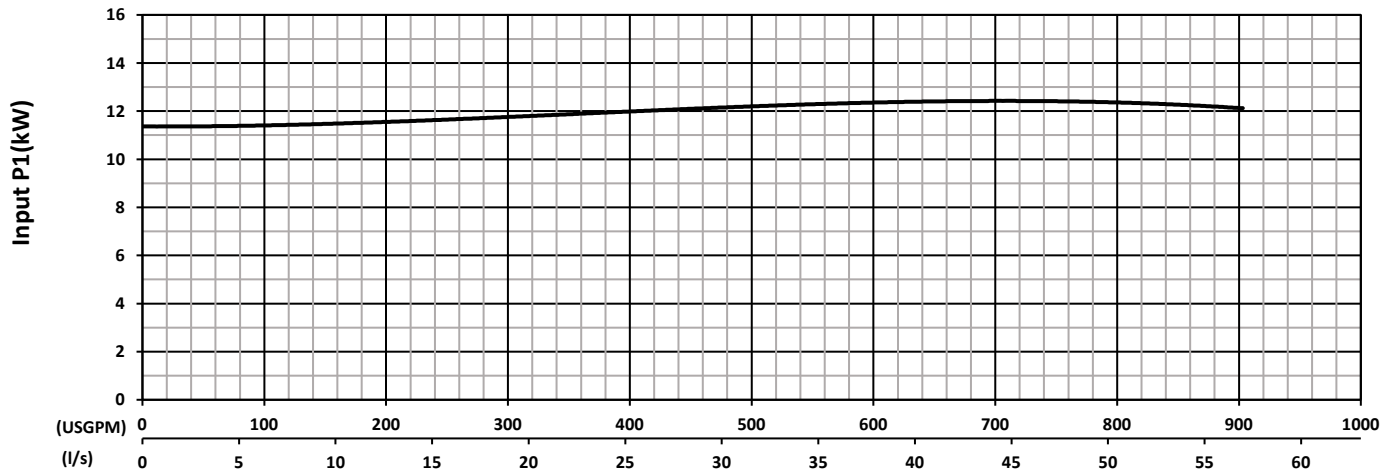
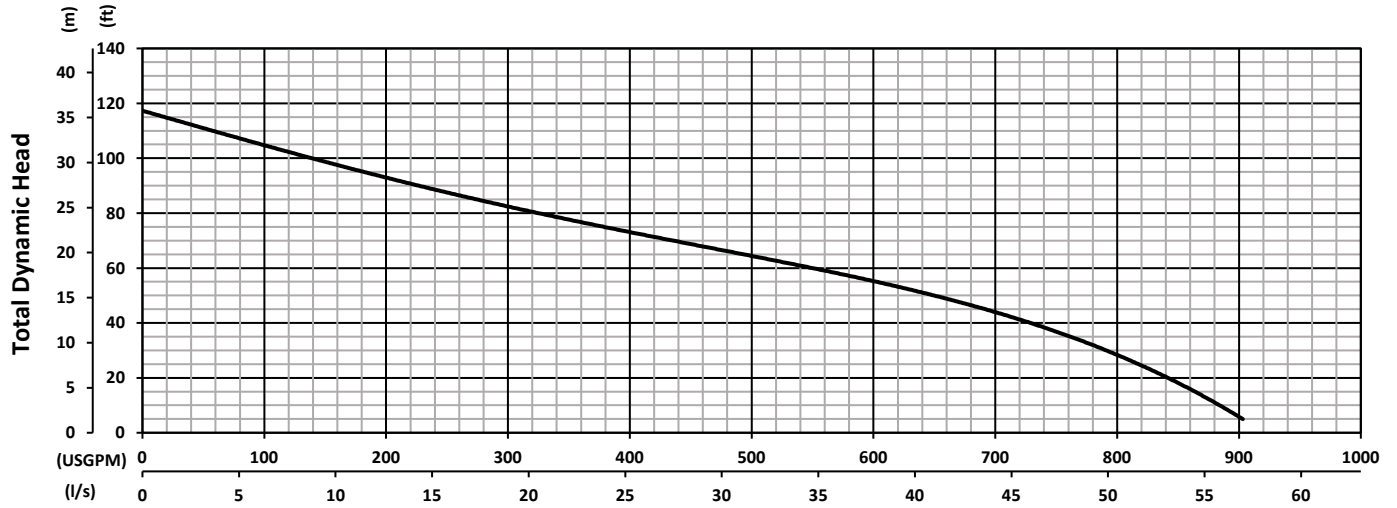
# PERFORMANCE CURVE

# Dewatering Pumps S1500 HV

Dwg: DS-A18-074

Rev: 4

Date: 1/26/2024



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

**S1500 HV - Dual Units**

Frequency 60 Hz  
Pump Speed 3450 RPM  
Impeller 145mm

Specifications subject to change without notice



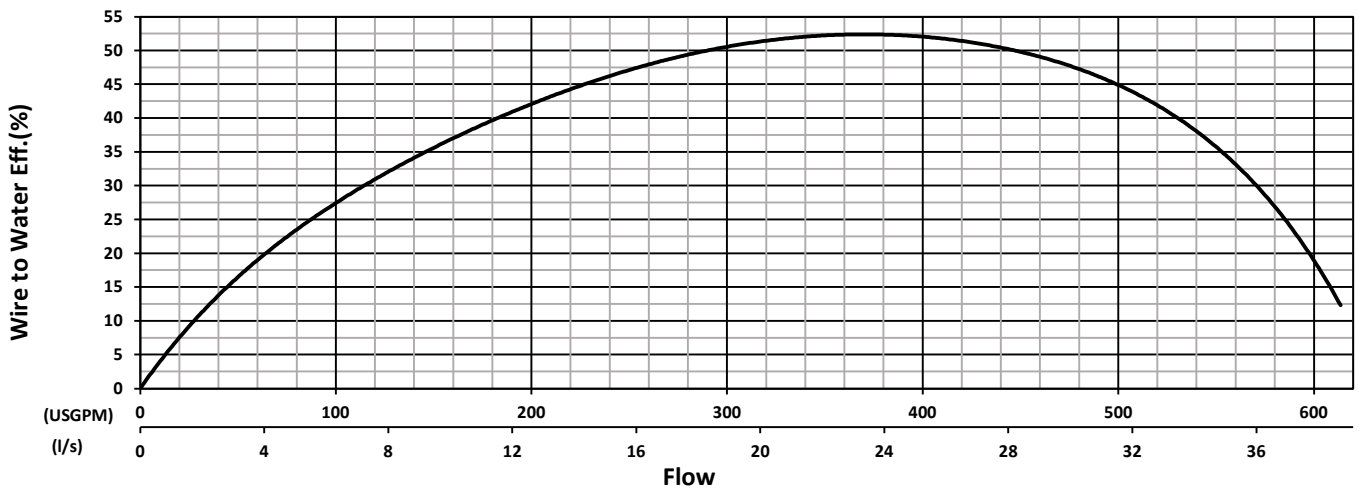
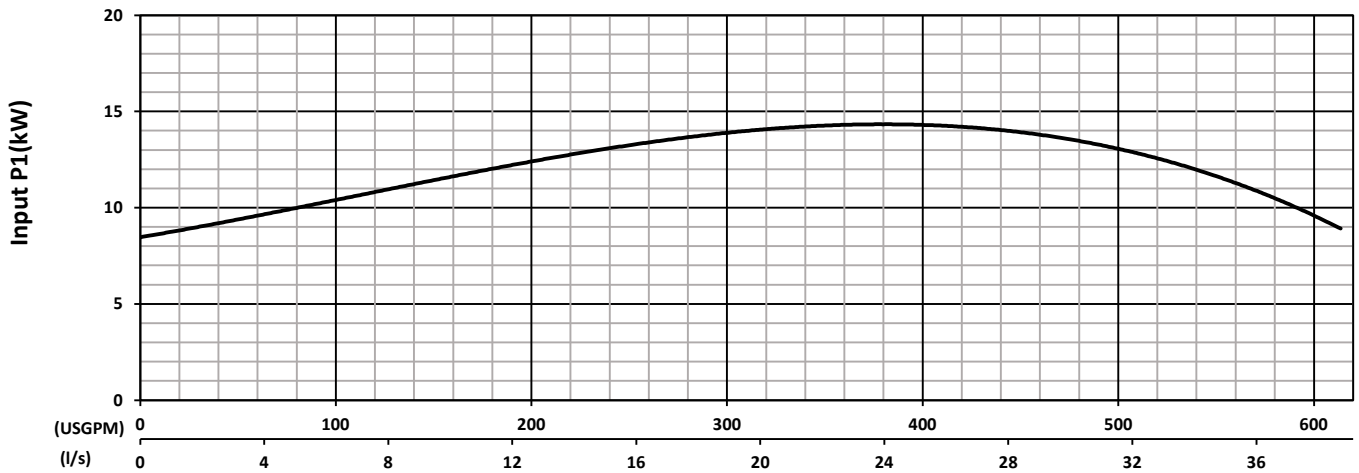
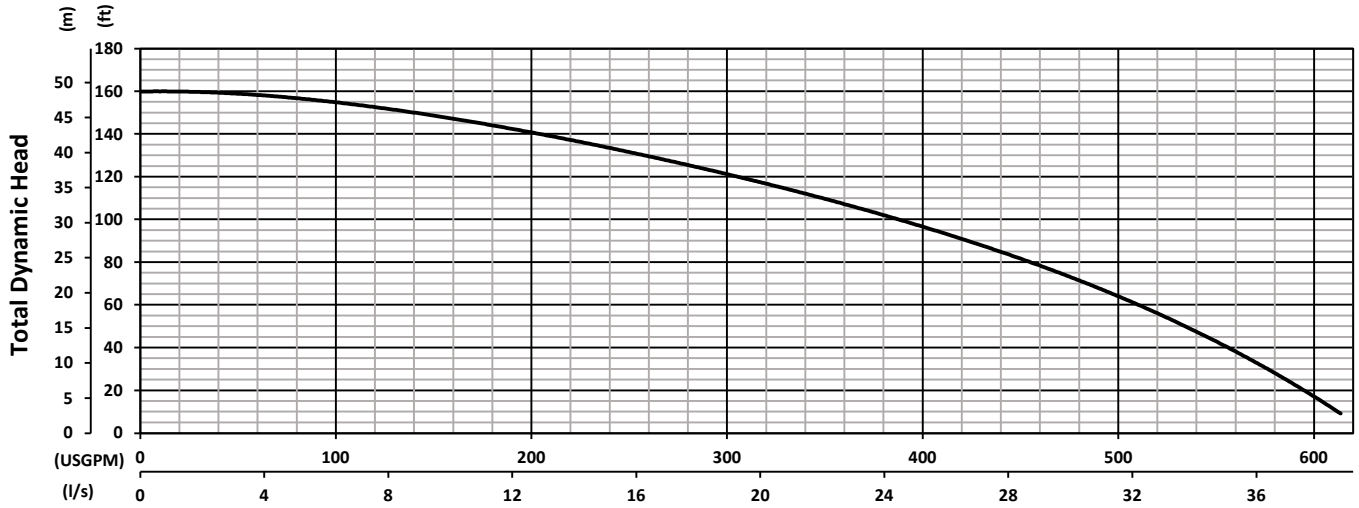
# PERFORMANCE CURVE

# Dewatering Pumps S1500 MR

Dwg: DS-A18-150

Rev: -

Date: 4/16/2019



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

### Dewatering Pumps - Dual Units

Frequency 60 Hz  
 Pump Speed 3450 RPM  
 Impeller 180mm

Specifications subject to change without notice