

STA-RITE® ST.E.P. Plus D Series

4" multi-stage submersible effluent pumps



The ST.E.P. Plus D Series 4" submersible pump in 10, 20 and 30 GPM models dominate with superior "draw-down" capability, with reduced amp draw and with cooler and quieter operation.

APPLICATIONS

Clean and Gray Water... for residential, commercial, and agricultural use.

SPECIFICATIONS

Motor: Available in 115 or 230 volt versions. Dry-wound, double ball-bearing, double-seal and thermal overload protected, UL and CSA approved.

Shell: Stainless steel (300 grade)

Discharge: 1-1/4" Fiberglass-reinforced thermoplastic

Discharge Bearing: Nylatron®

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with stainless steel wear ring

Thrust Pads: Proprietary spec.

Shaft and Coupling: Stainless steel 300 grade

Intake: Fiberglass-reinforced thermoplastic

Intake Screen: Stainless steel

Jacketed Cord: 600 Volt "SJOW" jacketed 10' leads, 2-wire with ground

Agency Listing: CSA

FEATURES

ST.E.P. Plus DOMINATES with a...

Proven Stage System: The proven SignaSeal staging system utilizes a patented ceramic wear surface. When incorporated with STA-RITE's "true" independent floating impellers, dominates with 1st-in-class performance, superior sand handling, and a thrust management staging system with industry exclusive "dry-run" capabilities.

Superior "draw-down" capability: The ST.E.P. Plus Dominates in this class with the lowest draw-down of 4-1/2" (a standard 4" NEMA submersible only draws-down to 13-1/2").

Reduced amp draw: The ST.E.P. Plus Dominates in this class with less energy consumption – over 25% less amp draw (9.5 amps vs. 12.7 amps, 115 volt) than a 4" NEMA submersible, reducing operating costs and extending the service life of float switch contacts.

Cooler and quieter operation: The ST.E.P. Plus Dominates by using the pumped liquid to cool the motor as it passes over the motor. The water passing over the motor dampens the motor noise, eliminating expensive "flow-inducer sleeves" required when using a standard 4" NEMA submersible.

Impellers: Precision molded for perfect balance... ultra smooth for the highest performance and efficiency. Allows for .080" solids.

Shaft: Positive drive, hexagonal 7/16" – 300-grade stainless steel shaft offers generous impeller drive surfaces.

Shaft bearing: Exclusive self-lubricating Nylatron® bearing resists wear surface from sand and abrasives.

Shell: Corrosion resistant 300-grade stainless steel.

ORDERING INFORMATION

Catalog Number	HP	Max. Load Amps	Volts	Phase/Cycles	Cord Length	Pallet Quantity	Weight (Lbs.)
10DOM05121	1/2	11.0	115	1/60	10'	40	17
20DOM05121+1	1/2	10.6	115	1/60	10'	40	17
30DOM05121	1/2	9.5	115	1/60	10'	40	19
10DOM05221	1/2	5.5	230	1/60	10'	40	17
20DOM05221+1	1/2	5.3	230	1/60	10'	40	17
30DOM05221	1/2	4.6	230	1/60	10'	40	19
10DOM07221	3/4	7,3	230	1/60	10'	40	23
20DOM07221	3/4	6,5	230	1/60	10'	40	19
30DOM07221	3/4	5,6	230	1/60	10'	40	18
10DOM10221	1	9,6	230	1/60	10'	40	34
20DOM10221	1	7,7	230	1/60	10'	40	23
30DOM10221	1	7	230	1/60	10'	40	22

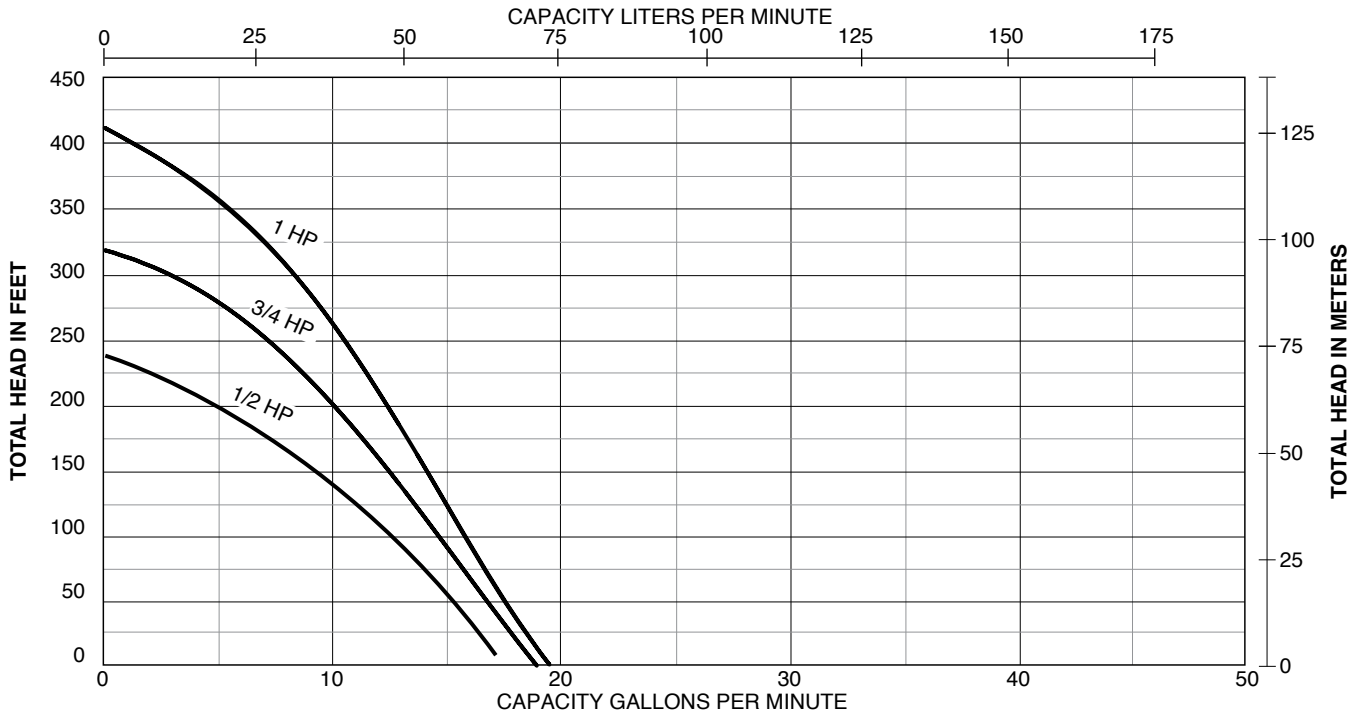
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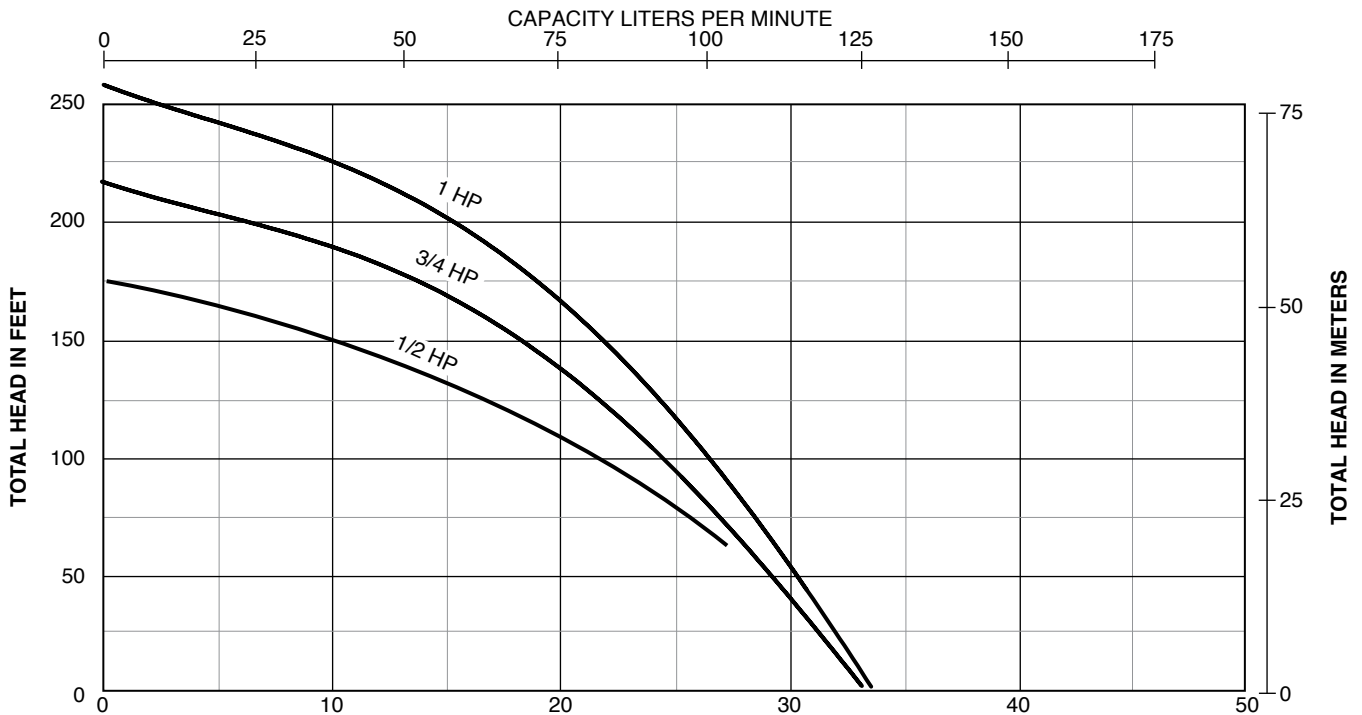
STA-RITE® ST.E.P. Plus D Series

4" multi-stage submersible effluent pumps

PUMP PERFORMANCE: 10 GPM



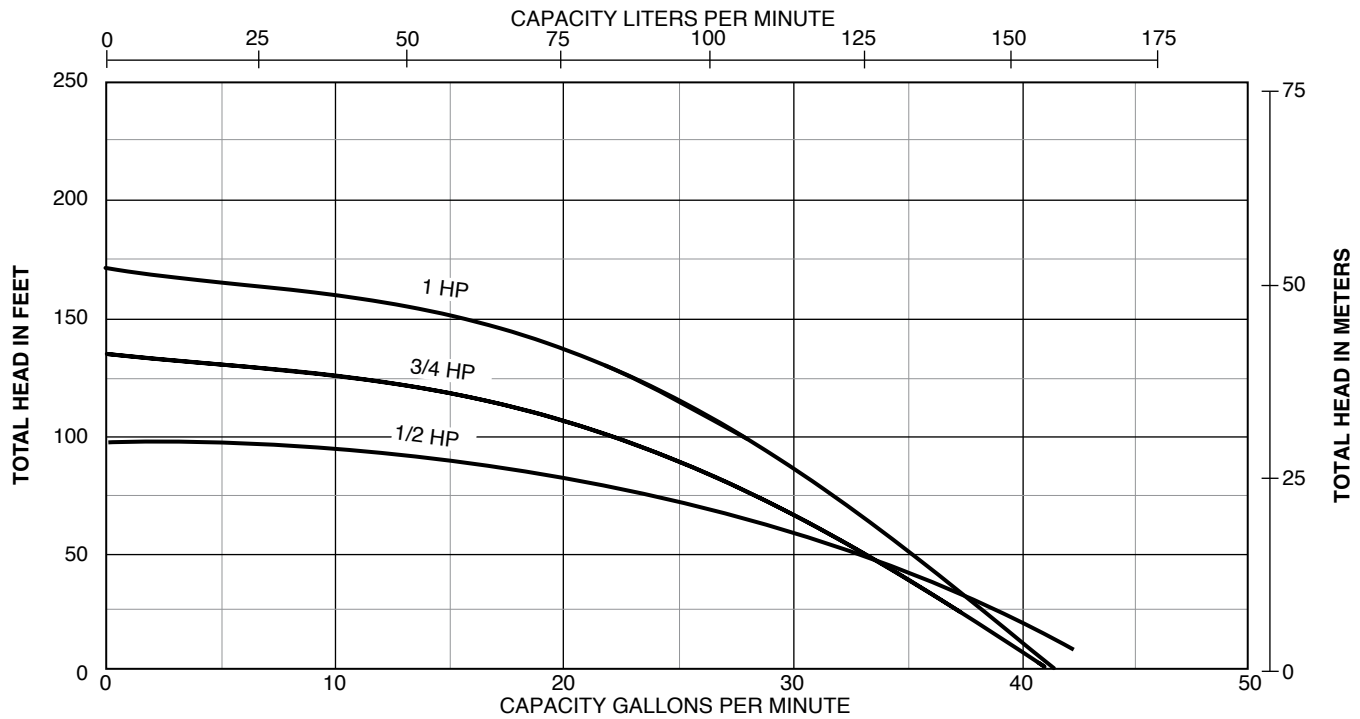
PUMP PERFORMANCE: 20 GPM



STA-RITE® ST.E.P. Plus D Series

4" multi-stage submersible effluent pumps

PUMP PERFORMANCE: 30 GPM



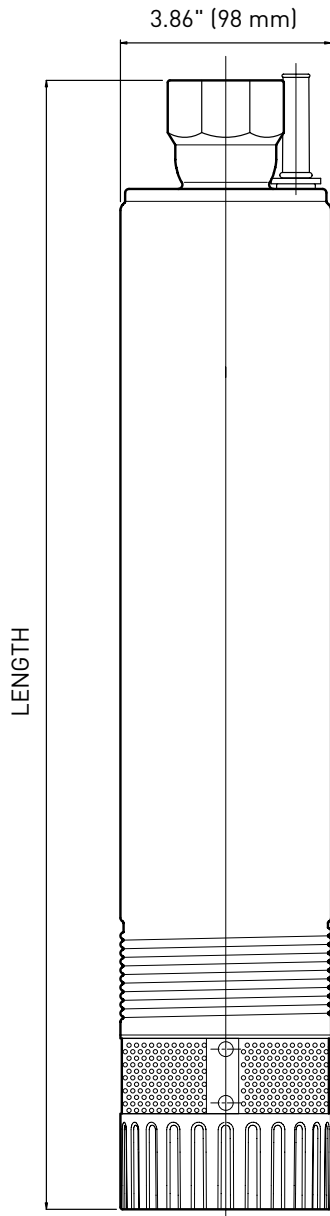
PUMP PERFORMANCE (Capacity in gallons per minute)

HP	Flow Rate	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
1/2	10	-	-	15.0	13.7	12.7	11.5	10.2	8.4	6.5	4.3	1.0						
3/4	10	-	-	17.1	16.1	15.2	14.2	13.1	12	10.8	9.6	8.2	6.7	5.1	3.1	0.7		
1	10	-	-	17.2	16.6	15.9	15.2	14.5	13.7	12.9	12.1	11.2	10.3	9.3	8.2	6.9	5.6	3.9
1/2	20	-	-	30.0	27.5	24.0	20.0	13.5	6.0									
3/4	20	-	-	29.5	27.4	25	22.4	19.5	16.1	11.9	5.0							
1	20	-	-	30.4	28.7	26.9	24.9	22.8	20.4	17.7	14.5	10.4						
1/2	30	-	38.5	33.3	25.8	16.0												
3/4	30	-	38.1	34	29.3	23.7	16.1											
1	30	-	39.1	36.1	32.8	29.1	24.7	19.3	11.1									

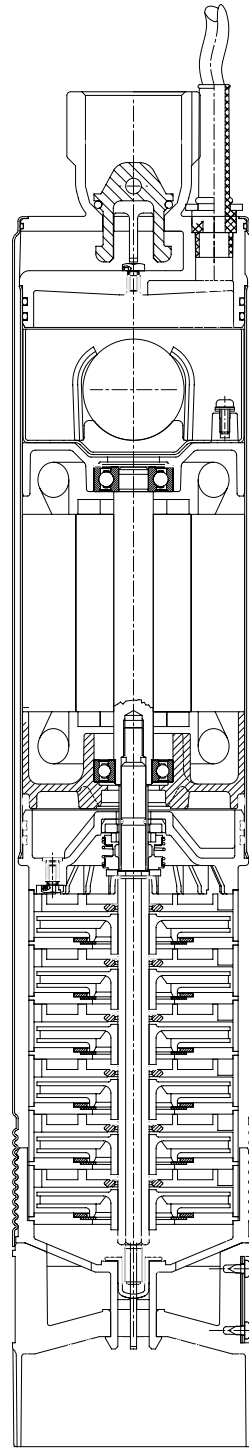
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OUTLINE DIMENSIONS



CROSS SECTION



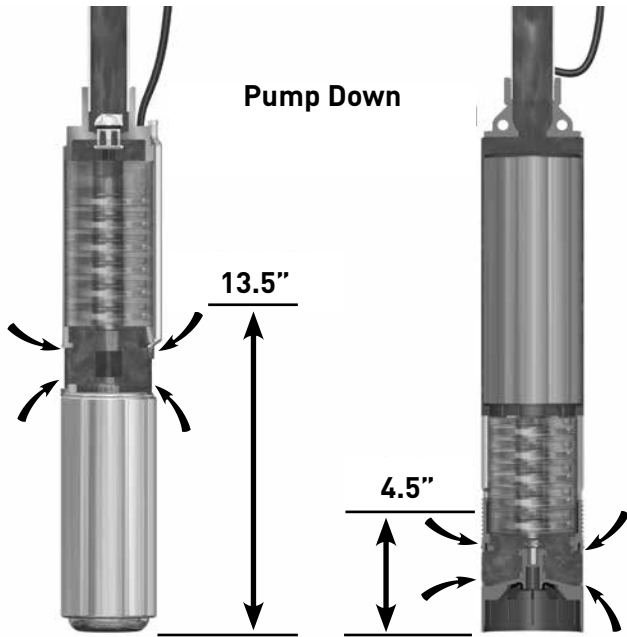
Pump	Length
10DOM05121	21.6
20DOM05121+1	22.3
30DOM05121	20.6
10DOM05221	21.6
20DOM05221+1	22.3
30DOM05221	20.6
10DOM07221	25.2
20DOM07221	24.9
30DOM07221	22.3
10DOM10221	29.0
20DOM10221	27.2
30DOM10221	24.6

Dimensions are for estimating purposes only.

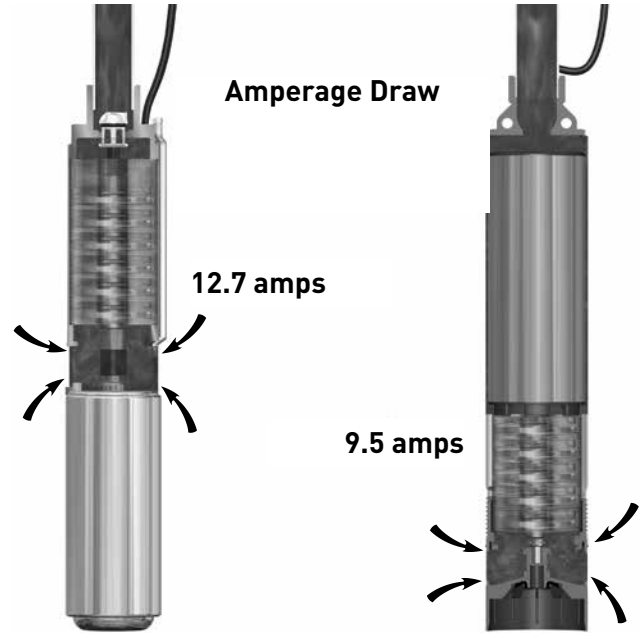
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4" multi-stage submersible effluent pumps

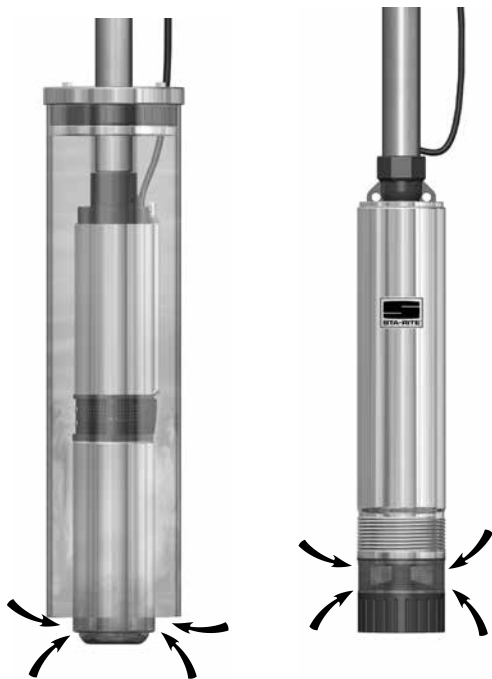
INCREASED DRAWDOWN



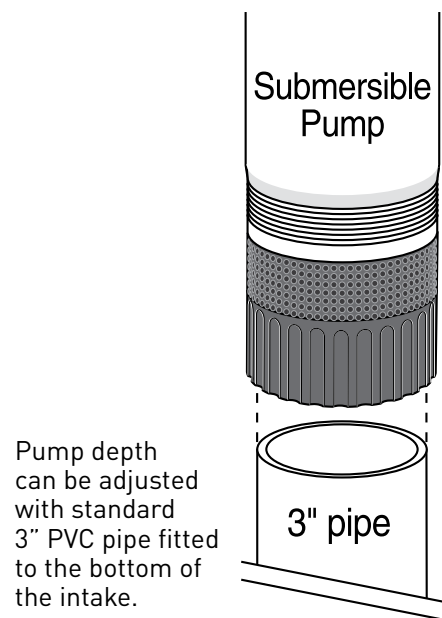
REDUCED AMP DRAW



ELIMINATES FLOW-INDUCER



ADJUSTABLE DEPTH SETTING



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US: 293 WRIGHT STREET, DELAVAN, WI 53115 WWW.STA-RITE.COM PH: 888-782-7483 ORDERS FAX: 800-426-9446
CANADA: 490 PINEBUSH ROAD, UNIT 4, CAMBRIDGE, ONTARIO N1T 0A5 PH: 800-363-7867 ORDERS FAX: 888-606-5484
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