

STA-RITE® 75 and 90 GPM Series

Stainless steel, High-Flo 4"



The 75 and 90 GPM Stainless Steel High-Flo 4" Submersible Pumps deliver efficient and dependable performance even in rough, aggressive water. Heads to 410 feet and capabilities to 120 GPM. Built to deliver long-term, trouble-free service. FDA-compliant engineered composite and stainless steel components.

APPLICATIONS

Water systems...for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Discharge: 300 grade stainless steel with 2" NPT threads

Top Bearing: Acetal

Top Bearing Journal: 300 grade stainless steel

Diffuser Assembly: Noryl® (20% glass filled) with urethane insert and 300 grade stainless steel

Upthrust Washers: Phenolic

Impellers: Polycarbonate (20% glass filled)

Impeller Eye Seals: Urethane

Bowls: Noryl (20% glass filled)

Intermediate Bearing: Acetal

Intermediate Bearing Journal: 300 grade stainless steel

Shaft: 300 grade stainless steel

Coupling: 300 grade stainless steel, 7/16" hex stock

Shell: 300 grade stainless steel

Motor Adapter: 300 grade stainless steel

Suction Screen: 300 grade stainless steel

Cable Guard: 300 grade stainless steel

Fasteners: 300 grade stainless steel

FEATURES

Discharge: Heavy-duty 300 grade stainless steel construction provides smooth water passage to column pipe. Large wrench flats and rope hole.

Top Bearing: Field-proven, sealed and lubricated top bearing assembly keeps abrasives out, ensuring long bearing life.

Impellers: 20% glass-reinforced polycarbonate to resist abrasives and provide smooth water passage for minimal friction loss.

Upthrust Bearing: Phenolic washers and stainless steel upthrust rings at each stage provide excellent wear-resistant surfaces.

Diffuser Bearing: Urethane bearings at each stage provide radial protection and stability, and excellent resistance to sand damage.

Motor Bracket: 300 grade precision cast stainless steel. Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

Shaft: 300 grade "treated" stainless steel pump shaft is corrosion-resistant. The hex shape offers generous impeller drive surfaces.

Motor Coupling: Pressed-on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft.

Shell: Heavy-gauge, 300 series stainless steel pump shell is durable and offers high corrosion resistance.

Intake Screen: 300 series stainless steel material offers maximum corrosion resistance and protects against damaging solids entering the pump.

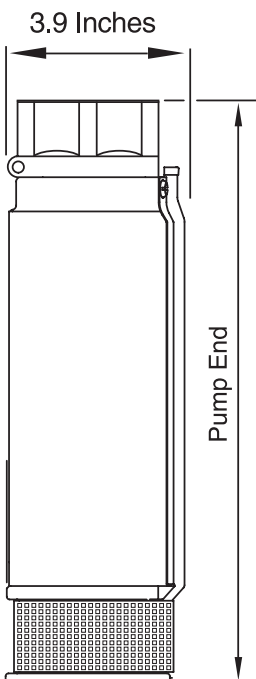
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Stainless steel, High-Flo 4"

| ORDERING INFORMATION | | | | | | | | | | | |
|----------------------|---------------|-------|----|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MOTOR TYPE | HP | STGS. | PH | VOLT | PUMP END | | | MOTOR | | CONTROL BOX | |
| | | | | | CATALOG NUMBER | LENGTH INCHES* | WEIGHT POUNDS* | CATALOG NUMBER | WEIGHT POUNDS* | CATALOG NUMBER | WEIGHT POUNDS* |
| 75 GPM | | | | | | | | | | | |
| 3 WIRE | 2 | 5 | 1 | 230 | L75HF20 | 16-5/8 | 15 | P43B0020A2 | 32 | SMC-CR2021 | 7 |
| | | | 3 | 230 | L75HF20 | 16-5/8 | 15 | P43B0020A3 | 29 | | |
| | | | 3 | 460 | L75HF20 | 16-5/8 | 15 | P43B0020A4 | 29 | | |
| | 3 | 7 | 1 | 230 | L75HF30 | 20-7/8 | 11 | P43B0030A2 | 52 | SMC-CR3021 | 8 |
| | | | 3 | 230 | L75HF30 | 20-7/8 | 11 | P43B0030A3 | 44 | | |
| | | | 3 | 460 | L75HF30 | 20-7/8 | 11 | P43B0030A4 | 44 | | |
| | 5 | 11 | 1 | 230 | L75HF50 | 29-3/8 | 15 | P43B0050A2 | 69 | SMC-CR5021 | 14 |
| | | | 3 | 230 | L75HF50 | 29-3/8 | 15 | P43B0050A3 | 55 | | |
| | | | 3 | 460 | L75HF50 | 29-3/8 | 15 | P43B0050A4 | 55 | | |
| | 7-1/2 | 17 | 3 | 230 | L75HF75 | 42 | 32 | P43B0075A3 | 70 | | |
| | | | | 460 | L75HF75 | 42 | 32 | P43B0075A4 | 70 | | |
| | 90 GPM | | | | | | | | | | |
| 3 WIRE | 2 | 5 | 1 | 230 | L90HF20 | 21 | 15 | P43B0020A2 | 31 | SMC-CR2021 | 7 |
| | | | 3 | 230 | L90HF20 | 21 | 15 | P43B0020A3 | 31 | | |
| | | | 3 | 460 | L90HF20 | 21 | 15 | P43B0020A4 | 31 | | |
| | 3 | 7 | 1 | 230 | L90HF30 | 26-5/8 | 17 | P43B0030A2 | 40 | SMC-CR3021 | 7 |
| | | | 3 | 230 | L90HF30 | 26-5/8 | 17 | P43B0030A3 | 32 | | |
| | | | 3 | 460 | L90HF30 | 26-5/8 | 17 | P43B0030A4 | 32 | | |
| | 5 | 12 | 1 | 230 | L90HF50 | 41-1/2 | 19 | P43B0050A2 | 70 | SMC-CR5021 | 8 |
| | | | 3 | 230 | L90HF50 | 41-1/2 | 19 | P43B0050A3 | 55 | | |
| | | | 3 | 460 | L90HF50 | 41-1/2 | 19 | P43B0050A4 | 55 | | |
| | 7-1/2 | 17 | 3 | 230 | L90HF75 | 56 | 26 | P43B0075A3 | 70 | | |
| | | | | 460 | L90HF75 | 56 | 26 | P43B0075A4 | 70 | | |
| | 10 | 23 | 3 | 460 | L90HF100 | 72-3/8 | 35 | P43B0100A4 | 78 | | |

*Length and Weight are approximate.



2" NPT Discharge, all models

For lengths, refer to Ordering Information tables.

Dimensions are for estimating purposes only.

STA-RITE® 75 and 90 GPM Series

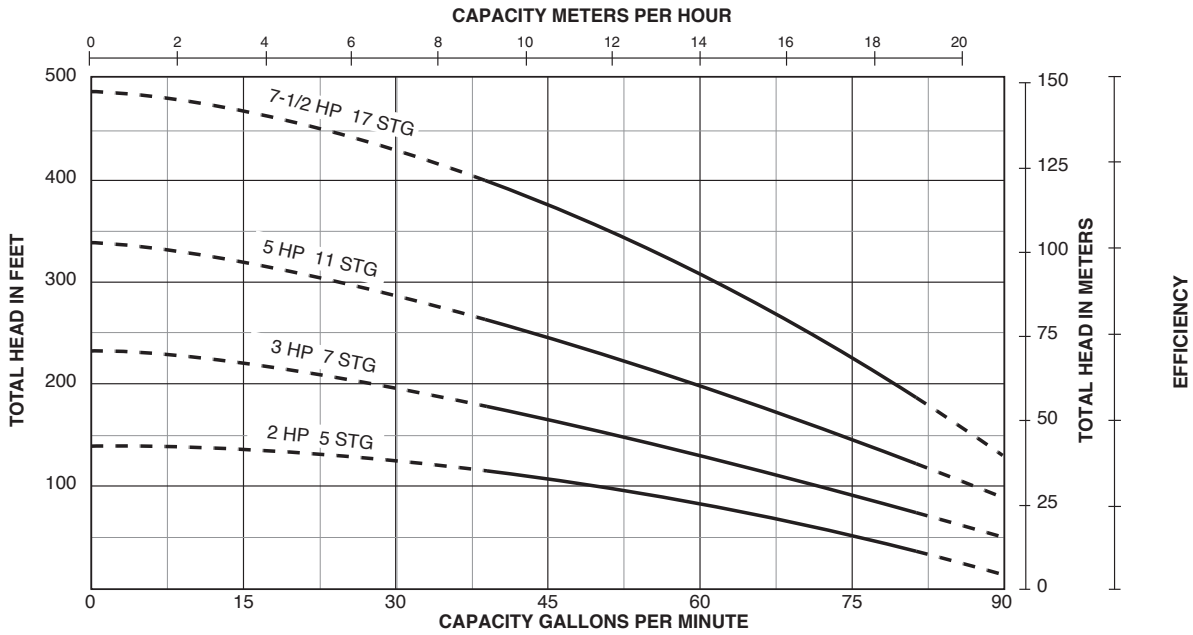
Stainless steel, High-Flo 4"

| PUMP PERFORMANCE (Capacity in gallons per minute) | | | | | | | | | | | | | | | | |
|---|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|------|-----|
| HP | PSI | PUMPING DEPTH IN FEET | | | | | | | | | | | | SHUT-OFF HEAD | | |
| | | 20 | 40 | 60 | 80 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | FEET | PSI |
| 75 GPM | | | | | | | | | | | | | | | | |
| 2 | 0 | 82 | 76 | 70 | 62 | 52 | | | | | | | | | 143 | 62 |
| | 20 | 67 | 59 | 49 | | | | | | | | | | | | |
| | 30 | 58 | 47 | | | | | | | | | | | | | |
| | 40 | 45 | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | | |
| | 70 | | | | | | | | | | | | | | | |
| 3 | 0 | - | - | - | 78 | 70 | 60 | 50 | | | | | | | 226 | 98 |
| | 20 | - | 76 | 67 | 59 | 51 | 40 | | | | | | | | | |
| | 30 | 75 | 66 | 58 | 50 | 41 | | | | | | | | | | |
| | 40 | 65 | 57 | 49 | 40 | | | | | | | | | | | |
| | 50 | 55 | 46 | | | | | | | | | | | | | |
| | 60 | 45 | | | | | | | | | | | | | | |
| | 70 | | | | | | | | | | | | | | | |
| 5 | 0 | - | - | - | - | - | 78 | 73 | 66 | 59 | | | | | 333 | 144 |
| | 20 | - | - | - | 78 | 74 | 67 | 60 | 53 | | | | | | | |
| | 30 | - | - | - | 77 | 73 | 68 | 60 | 53 | 45 | | | | | | |
| | 40 | 80 | 76 | 72 | 67 | 61 | 54 | 45 | | | | | | | | |
| | 50 | 75 | 71 | 67 | 60 | 54 | 45 | | | | | | | | | |
| | 60 | 70 | 66 | 59 | 53 | 46 | | | | | | | | | | |
| | 70 | 464 | 59 | 53 | 45 | | | | | | | | | | | |
| 7-1/2 | 0 | - | - | - | - | - | - | - | 81 | 77 | 69 | 60 | 49 | | 482 | 209 |
| | 20 | - | - | - | - | - | 82 | 78 | 73 | 70 | 61 | 51 | | | | |
| | 30 | - | - | - | - | 82 | 78 | 74 | 70 | 66 | 57 | 45 | | | | |
| | 40 | - | - | - | 82 | 79 | 75 | 71 | 67 | 62 | 52 | 39 | | | | |
| | 50 | - | - | 81 | 78 | 75 | 71 | 67 | 62 | 58 | 45 | | | | | |
| | 60 | - | 80 | 77 | 74 | 70 | 68 | 64 | 59 | 53 | 38 | | | | | |
| | 70 | 80 | 77 | 73 | 70 | 68 | 64 | 58 | 52 | 46 | | | | | | |
| 90 GPM | | | | | | | | | | | | | | | | |
| 2 | 0 | - | 115 | 90 | 60 | | | | | | | | | | 109 | 48 |
| | 20 | 80 | 53 | | | | | | | | | | | | | |
| | 30 | 50 | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | | |
| | 70 | | | | | | | | | | | | | | | |
| 3 | 0 | - | - | 113 | 96 | 75 | 50 | | | | | | | | 153 | 67 |
| | 20 | 108 | 90 | 69 | 50 | | | | | | | | | | | |
| | 30 | 87 | 66 | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | | |
| | 70 | | | | | | | | | | | | | | | |
| 5 | 0 | - | - | - | - | 115 | 103 | 86 | 72 | 56 | | | | | 258 | 112 |
| | 20 | - | 122 | 112 | 102 | 88 | 74 | 59 | | | | | | | | |
| | 30 | 119 | 111 | 101 | 87 | 73 | 58 | | | | | | | | | |
| | 40 | 108 | 98 | 84 | 72 | 57 | | | | | | | | | | |
| | 50 | 96 | 83 | 71 | 56 | | | | | | | | | | | |
| | 60 | 82 | 70 | 55 | | | | | | | | | | | | |
| | 70 | | | | | | | | | | | | | | | |
| 7-1/2 | 0 | - | - | - | - | 124 | 116 | 108 | 103 | 92 | 73 | 50 | | | 402 | 175 |
| | 20 | - | - | 122 | 116 | 110 | 101 | 93 | 87 | 74 | 52 | | | | | |
| | 30 | - | 121 | 115 | 109 | 102 | 94 | 84 | 79 | 65 | | | | | | |
| | 40 | 120 | 114 | 108 | 101 | 94 | 85 | 76 | 70 | 54 | | | | | | |
| | 50 | 113 | 107 | 100 | 93 | 86 | 76 | 66 | 60 | | | | | | | |
| | 60 | 106 | 99 | 92 | 85 | 77 | 67 | 56 | | | | | | | | |
| | 70 | | | | | | | | | | | | | | | |
| 10 | 0 | - | - | - | - | - | - | - | 118 | 112 | 99 | 81 | 66 | 52 | 491 | 213 |
| | 20 | - | - | - | - | - | 119 | 113 | 106 | 100 | 83 | 67 | 53 | | | |
| | 30 | - | - | - | - | 120 | 114 | 107 | 101 | 93 | 75 | 60 | | | | |
| | 40 | - | - | - | 119 | 114 | 107 | 101 | 94 | 84 | 68 | 54 | | | | |
| | 50 | - | - | 118 | 114 | 108 | 102 | 95 | 85 | 77 | 62 | | | | | |
| | 60 | 125 | 117 | 113 | 108 | 102 | 94 | 86 | 78 | 70 | 55 | | | | | |
| | 70 | | | | | | | | | | | | | | | |

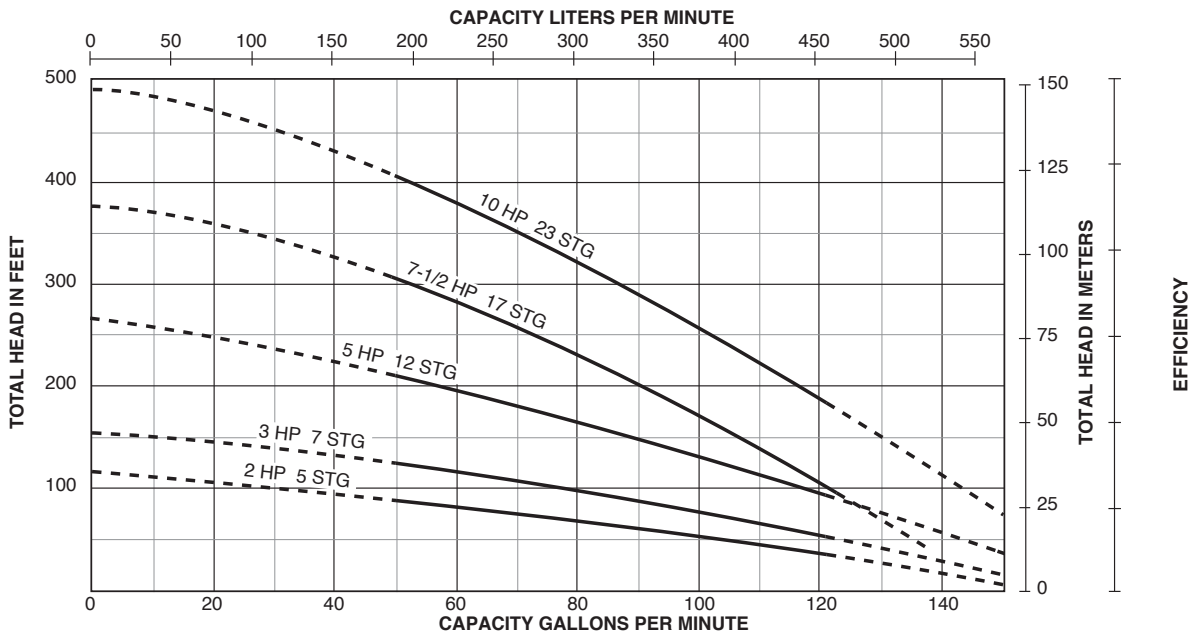
STA-RITE® 75 and 90 GPM Series

Stainless steel, High-Flo 4"

PUMP PERFORMANCE: 75 GPM



PUMP PERFORMANCE: 90 GPM



Tested and rated in accordance with Water Systems Council Standards.
 NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve.
 Relief valve must be capable of relieving entire flow of pump at relief pressure.



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