

Installation And Use

This series of electric pumps has a multi-stage impeller structure with a high head and wide application. It is suitable for pumping water in boreholes, ponds and lakes, lawn irrigation, domestic tap water, swimming pool filling, water tower and cistern delivery, fountains, agricultural drainage and irrigation, etc.

Flow rate up to
120 L/min (7.2 m³/h)

Head up to
197 m

SDM SDM-S SDM-T



Application Limits

Medium temperature does not exceed +40°C;
Medium PH values between 6.5 and 8.5;
The volume ratio of solid impurities in the medium is not more than 0.1%, and the particle size is not more than 0.2mm;
Diving depth does not exceed 70 meters;
Min. applicable well diameter: 3"

Construction

Pump External Casing: Stainless steel
Impeller: Plastic POM
Diffuser: PC
Motor External Casing:H57
Motor Shaft: Stainless steel
Mechanical Seal: Ceramic- graphite or Sic to graphite
Electric Motor: Oil filled rewindable motors(non- toxic oil for use with food) . Single- phase 220V/ 240V- 50Hz with condenser thermal overload protector built into the copper winding, equipped with start control box. Three- phase 380V/ 415V
Insulation: Class B
Protection: IP X8



- *: 1- phase pump can be selected with control box (SDM) or without control box(SEM).
- *: The Outlet/Connection can be made by brass/stainless steel/cast iron.

| Model | Power | | Max head m | Max.flow m³/h | Outlet Inch | Q (m³/h) | Q (L/min) | | | | | | | |
|--------------|-------|------|---------------|------------------|----------------|----------|-----------|-----|-----|-----|-----|--|--|--|
| | kW | HP | | | | | 0 | 0.6 | 1.2 | 1.8 | 2.7 | | | |
| Single-phase | | | | | | 0 | 0 | 10 | 20 | 30 | 45 | | | |
| 3SDm1.8/7 | 0.18 | 0.25 | 30 | 3.6 | 1"1/4" | | 30 | 28 | 27 | 23 | 11 | | | |
| 3SDm1.8/10 | 0.25 | 0.33 | 43 | 3.6 | 1"1/4" | | 43 | 41 | 39 | 33 | 16 | | | |
| 3SDm1.8/14 | 0.37 | 0.5 | 60 | 3.6 | 1"1/4" | | 60 | 57 | 54 | 46 | 23 | | | |
| 3SDm1.8/20 | 0.55 | 0.75 | 85 | 3.6 | 1"1/4" | | 85 | 81 | 78 | 66 | 32 | | | |
| 3SDm1.8/27 | 0.75 | 1 | 113 | 3.6 | 1"1/4" | | 113 | 108 | 94 | 85 | 44 | | | |
| 3SDm1.8/33 | 1.1 | 1.5 | 138 | 3.6 | 1"1/4" | | 138 | 136 | 130 | 108 | 53 | | | |
| 3SDm1.8/47 | 1.5 | 2 | 197 | 3.6 | 1"1/4" | | 197 | 193 | 185 | 155 | 75 | | | |

| Model | Power | | Max head m | Max.flow m³/h | Outlet Inch | Q (m³/h) | Q (L/min) | | | | | | | | | | | | | | |
|--------------|-------|------|---------------|------------------|----------------|----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|--|--|
| | kW | HP | | | | | 0 | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3 | 3.3 | 3.6 | | |
| Single-phase | | | | | | 0 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | | |
| 3SDm2.5/5 | 0.18 | 0.24 | 22 | 4.2 | 1"1/4" | | 22 | 21 | 21 | 20 | 20 | 19 | 18 | 17 | 16 | 14 | 12 | 10 | 7 | | |
| 3SDm2.5/7 | 0.25 | 0.34 | 30 | 4.2 | 1"1/4" | | 30 | 29 | 29 | 29 | 28 | 27 | 26 | 24 | 22 | 20 | 17 | 14 | 10 | | |
| 3SDm2.5/10 | 0.37 | 0.5 | 43 | 4.2 | 1"1/4" | | 43 | 42 | 42 | 41 | 40 | 38 | 37 | 34 | 32 | 28 | 24 | 20 | 14 | | |
| 3SDm2.5/15 | 0.55 | 0.75 | 65 | 4.2 | 1"1/4" | | 65 | 64 | 63 | 61 | 60 | 57 | 55 | 52 | 47 | 42 | 37 | 30 | 20 | | |
| 3SDm2.5/20 | 0.75 | 1 | 87 | 4.2 | 1"1/4" | | 87 | 83 | 83 | 82 | 79 | 77 | 73 | 69 | 63 | 57 | 49 | 39 | 27 | | |
| 3SDm2.5/25 | 1.1 | 1.5 | 108 | 4.2 | 1"1/4" | | 108 | 104 | 103 | 102 | 99 | 96 | 92 | 86 | 79 | 71 | 61 | 49 | 34 | | |
| 3SDm2.5/36 | 1.5 | 2 | 156 | 4.2 | 1"1/4" | | 156 | 150 | 148 | 147 | 143 | 138 | 132 | 124 | 114 | 102 | 88 | 71 | 49 | | |

| Model | Power | | Max head m | Max.flow m³/h | Outlet Inch | Q (m³/h) | Q (L/min) | | | | | | | | | |
|--------------|-------|------|---------------|------------------|----------------|----------|-----------|-----|-----|-----|-----|----|-----|-----|-----|-----|
| | kW | HP | | | | | 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | 4.2 | 4.8 | 5.4 |
| Single-phase | | | | | | 0 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| 3SDm4/7 | 0.25 | 0.34 | 23 | 6.0 | 1"1/4"/1"1/2" | | 23 | 18 | 17 | 16 | 15 | 14 | 12 | 9 | 8 | 5 |
| 3SDm4/9 | 0.37 | 0.5 | 30 | 6.0 | 1"1/4"/1"1/2" | | 30 | 28 | 27 | 26 | 24 | 22 | 19 | 15 | 12 | 8 |
| 3SDm4/14 | 0.55 | 0.75 | 46 | 6.0 | 1"1/4"/1"1/2" | | 46 | 44 | 42 | 40 | 37 | 34 | 30 | 24 | 19 | 12 |
| 3SDm4/19 | 0.75 | 1 | 63 | 6.0 | 1"1/4"/1"1/2" | | 63 | 61 | 57 | 54 | 50 | 47 | 41 | 34 | 27 | 17 |
| 3SDm4/24 | 1.1 | 1.5 | 79 | 6.0 | 1"1/4"/1"1/2" | | 79 | 77 | 72 | 68 | 64 | 58 | 52 | 43 | 35 | 22 |
| 3SDm4/35 | 1.5 | 2 | 115 | 6.0 | 1"1/4"/1"1/2" | | 115 | 112 | 105 | 99 | 93 | 85 | 76 | 63 | 51 | 32 |

| Model | Power | | Max head m | Max.flow m³/h | Outlet Inch | Q (m³/h) | Q (L/min) | | | | | | | | | |
|--------------|-------|------|---------------|------------------|----------------|----------|-----------|-----|-----|-----|----|-----|-----|-----|-----|-----|
| | kW | HP | | | | | 0 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | 4.2 | 4.8 | 5.4 | 6 |
| Single-phase | | | | | | 0 | 0 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 3SDm5/4 | 0.25 | 0.34 | 15 | 7.2 | 1"1/4"/1"1/2" | | 15 | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 7 | 5 |
| 3SDm5/7 | 0.37 | 0.5 | 26 | 7.2 | 1"1/4"/1"1/2" | | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 18 | 12 | 11 |
| 3SDm5/9 | 0.55 | 0.75 | 34 | 7.2 | 1"1/4"/1"1/2" | | 34 | 33 | 33 | 32 | 31 | 30 | 28 | 25 | 22 | 15 |
| 3SDm5/13 | 0.75 | 1 | 48 | 7.2 | 1"1/4"/1"1/2" | | 48 | 46 | 45 | 43 | 42 | 40 | 36 | 35 | 32 | 20 |
| 3SDm5/19 | 1.1 | 1.5 | 70 | 7.2 | 1"1/4"/1"1/2" | | 70 | 69 | 68 | 64 | 62 | 60 | 58 | 52 | 46 | 38 |
| 3SDm5/26 | 1.5 | 2 | 96 | 7.2 | 1"1/4"/1"1/2" | | 96 | 94 | 93 | 90 | 88 | 86 | 80 | 74 | 63 | 40 |



Installation And Use

A micro submersible fountain pump for ornamental fountains for water feature projects. With silent operation, use in fresh water and seawater. Recommend to fish tank filter circulation pumping, water change, pond, landscaping, rockery and pattern fountain, etc. Easy application. With a variety of connection methods, it can be used with a variety of connection pipes on a variety of occasions.

GFC models for the frequency conversion type permanent magnet motor fountain pump, with a reliable structure, long life, high efficiency, low noise and other advantages.

Flow rate up to

166.7 L/min (10 m³/h)

Head up to

5.6 m

Application Limits

5 m maximum immersion depth
Liquid temperature + 35 °C
Ambient temperature up to + 40 °C

Construction

Pump Body: ABS + PC plastic
Impeller: Open type impeller in plastic
Motor Bracket: Plastic
Motor Shaft: Ceramic
Mechanical Seal: Ceramic - graphite or Sic to graphite
Electric Motor: Single-phase 230V-50Hz with condenser thermal overload protector built into the copper winding
Insulation: Class F
Protection: IP X8



GFA



GFB



GFC

Frequency variation model



| Model | Power | | Max head | Max.flow | G/W |
|----------|-------|------|----------|-------------------|-----|
| | kW | HP | m | m ³ /h | kg |
| GFA-2503 | 0.055 | 0.07 | 2.2 | 2.1 | 19 |
| GFA-3503 | 0.085 | 0.11 | 3.2 | 3.2 | 20 |
| GFA-4503 | 0.1 | 0.13 | 3.8 | 4.6 | 21 |
| GFA-5003 | 0.15 | 0.20 | 4.8 | 5.5 | 21 |

| Model | Power | | Max head | Max.flow | G/W |
|----------|-------|------|----------|-------------------|------|
| | kW | HP | m | m ³ /h | kg |
| GFB-743 | 0.008 | 0.01 | 1 | 0.6 | 10 |
| GFB-943 | 0.016 | 0.02 | 1.3 | 0.8 | 12 |
| GFB-1143 | 0.022 | 0.03 | 1.6 | 1 | 14 |
| GFB-1543 | 0.028 | 0.04 | 2 | 1.4 | 11.5 |
| GFB-1843 | 0.04 | 0.05 | 2.5 | 1.8 | 14 |
| GFC-2803 | 0.01 | 0.01 | 2 | 3 | 12.5 |
| GFC-3803 | 0.02 | 0.03 | 2.8 | 3.6 | 12.5 |
| GFC-4803 | 0.03 | 0.04 | 4 | 4.5 | 12.5 |
| GFC-5803 | 0.04 | 0.05 | 4.8 | 5.2 | 12.5 |
| GFC-5003 | 0.03 | 0.04 | 3.3 | 6 | 15 |
| GFC-6003 | 0.04 | 0.05 | 4.2 | 7 | 15 |
| GFC-7003 | 0.05 | 0.07 | 4.6 | 8 | 15 |
| GFC-8003 | 0.07 | 0.09 | 5.6 | 10 | 15 |