



SSA series Silent Booster Pump

50HZ

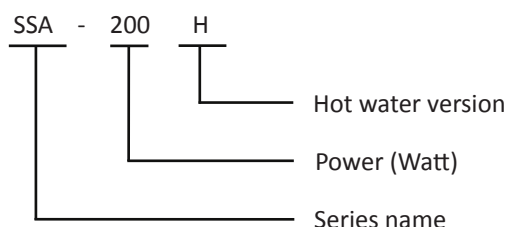


STAIRS INDUSTRIAL CO., LTD.

SSA SERIES - Silent Booster Pump

The SSA series is an All-in-One self-priming silent booster pump, the compact design combined pressure tank, pressure switch, flow switch and full protection controller, moreover, the evolutionary flow channel and peripheral impeller design provide highly performance, by using this booster pump there is no more pump frequently On/Off, unstable water pressure and noise problems.

Model code



Applications

- Water pressure boosting
- Water transferring
- Water circulating

Motor

- Motor Type: 2 Pole, totally enclosed fan-cooled
- Frequency: 50Hz
- Standard Voltages: 1Ø 220 - 240 V
- Insulation Class: F class (155°C)
- Enclosure Protection Class: IP 54
- Nominal Speed: 2850 rpm

Operation Conditions

- Liquid Temperature: 2°C - 40°C
2°C - 90°C(H Type)
- Ambient Temperature: 0°C - 40°C
- Max System Pressure: SSA200/300/400 5kg/cm²
SSA600/800 7kg/cm²

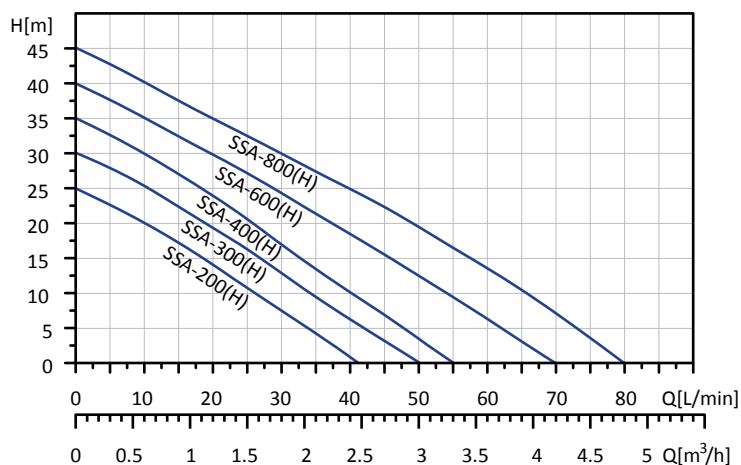
Materials

- Motor Frame: Aluminum
- Pump Casing: Cast Iron
- Shaft: SUS400 Series
- Impeller: Brass
- Mechanical Seal:
Ceramic + Carbon + NBR (Standard Version)
Ceramic + Carbon + Viton (Hot water Version)

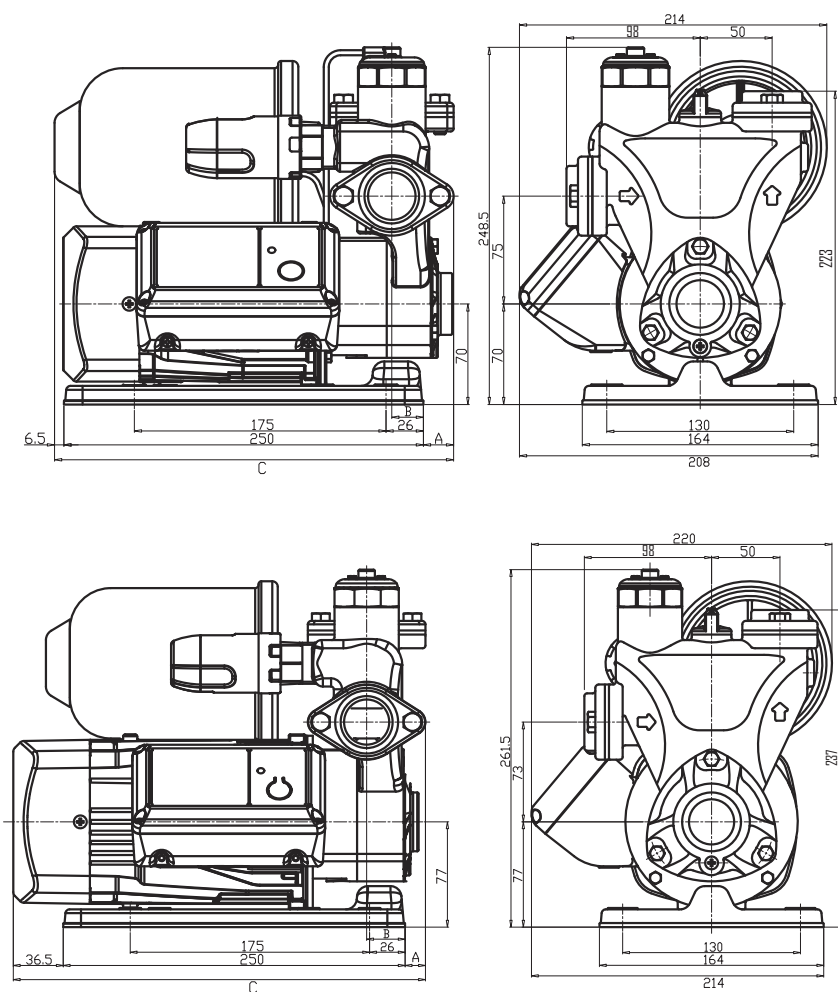
Features

- ※ Easy set-up, installation, and maintenance
- ※ The most silent operation in class
- ※ No more noise issue from pump short cycling
- ※ Best-in-class performance in the market
- ※ Higher efficiency for lower electricity bill
- ※ Robust construction for better reliability
- ※ Max. 8M self-priming suction lift
- ※ All-in-one compact design which integrates motor, pump, pressure tank, flow switch, pressure switch, and controller to provide the most stable water pressure
- ※ Anti-block system every 24 hours to prevent mechanical seal or impeller stick together
- ※ Controller wrote in dry-run protecting function to prevent pump or pipe damage (dry run without water over 2 minutes, the pump will automatically rest for 15 minutes and restart again, if above cycling happen accumulate 10 times, the rest time will become 90 minutes and restart afterward
- ※ LED light signals to indicate 4 different operating statuses
 - Red light: Stand by
 - Green light: Pump on
 - Red flash: Over heat
 - Green flash: No water
- ※ Double thermal protection
 - Pump-disconnect at 55°C, connect at 40°C
 - Motor-disconnect at 135 ± 5°C, connect at 86 ± 15°C

Performance Curves





Dimension



| Model | A (mm) | B (mm) | C (mm) |
|--------|--------|--------|--------|
| SSA200 | 17 | 26 | 274 |
| SSA300 | 19 | 24 | 276 |
| SSA400 | 21 | 22 | 278 |

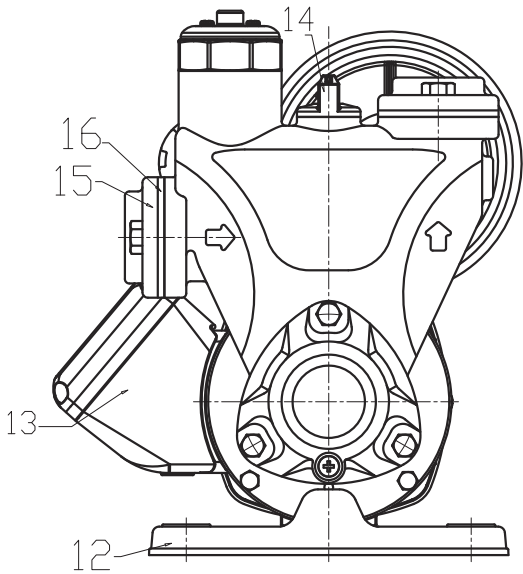
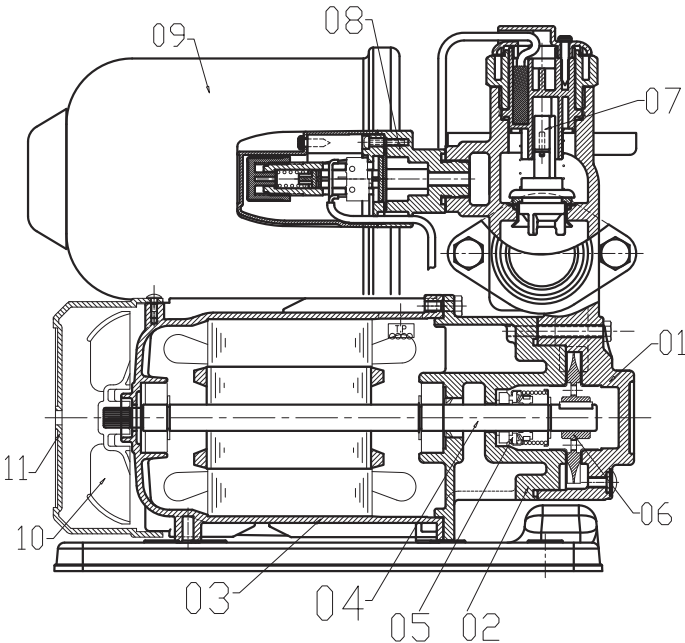
| Model | A (mm) | B (mm) | C (mm) |
|--------|--------|--------|--------|
| SSA600 | 12 | 32 | 298 |
| SSA800 | 15 | 28 | 302 |

Specifications

| Model | Phase | Voltage | Power | | Head | | Flow | | Ampere | |  | Connection | Weight | Units/ Pallet | Pallet dimension |
|----------|-------|---------|-------|------|-----------|----------|---------------|--------------|-----------|----------|---|-----------------|--------|---|------------------|
| | | | HP | Watt | Rated (M) | Max. (M) | Rated (L/min) | Max. (L/min) | Rated (A) | Max. (A) | | Inlet/Outlet | kg |  | L x W x H (cm) |
| SSA-200 | 1Ø | 220~240 | 0.25 | 200W | 12.5 | 25 | 21 | 41 | 1.1/1.1 | 1.8/1.7 | 2 | RP or NPT 1" | 10 | 96 | 110 x 110 x 192 |
| SSA-300 | | 220~240 | 0.35 | 300W | 13.5 | 30 | 28 | 50 | 1.4/1.4 | 2.2/2.1 | 3 | | 10.5 | 96 | |
| SSA-400 | | 220~240 | 0.5 | 400W | 14.5 | 35 | 32 | 55 | 1.7/1.7 | 2.4/2.3 | 4 | | 11 | 96 | |
| SSA-600 | | 220~240 | 0.75 | 600W | 15.5 | 40 | 43 | 70 | 2.7/2.6 | 4.2/4.0 | 5 | | 13 | 78 | 110 x 110 x 195 |
| SSA-800 | | 220~240 | 1 | 800W | 17.0 | 45 | 50 | 80 | 3.1/3.0 | 5.2/4.9 | 6 | | 14.5 | 78 | |
| SSA-200H | 1Ø | 220~240 | 0.25 | 200W | 12.5 | 25 | 21 | 41 | 1.1/1.1 | 1.8/1.7 | 2 | RP or NPT 1" | 10 | 96 | 110 x 110 x 192 |
| SSA-300H | | 220~240 | 0.35 | 300W | 13.5 | 30 | 28 | 50 | 1.4/1.4 | 2.2/2.1 | 3 | | 10.5 | 96 | |
| SSA-400H | | 220~240 | 0.5 | 400W | 14.5 | 35 | 32 | 55 | 1.7/1.7 | 2.4/2.3 | 4 | | 11 | 96 | |
| SSA-600H | | 220~240 | 0.75 | 600W | 15.5 | 40 | 43 | 70 | 2.7/2.6 | 4.2/4.0 | 5 | | 13 | 78 | 110 x 110 x 195 |
| SSA-800H | | 220~240 | 1 | 800W | 17 | 45 | 50 | 80 | 3.1/3.0 | 5.2/4.9 | 6 | | 14.5 | 78 | |

• Models with “H” are hot water types.

Component / Material

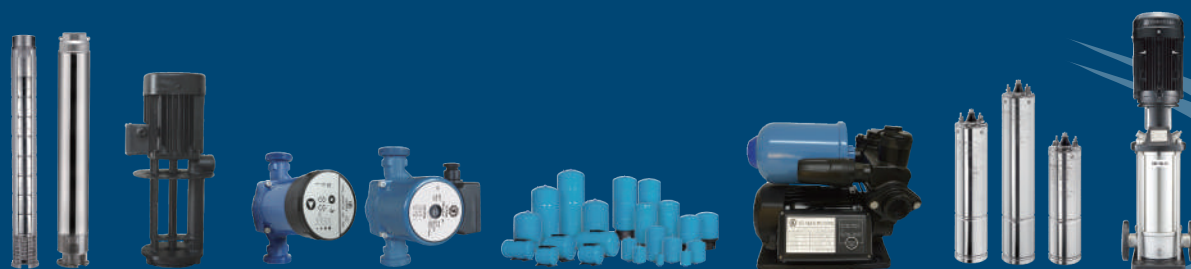


| No. | Component | Material |
|-----|------------------------------|---|
| 01 | Pump | FC200 |
| 02 | Motor stool | FC200 |
| 03 | Motor | ADC12 |
| 04 | Shaft | stainless steel400 series |
| 05 | Mechanical seal | Ceramic+Carbon+NBR(Standard) Ceramic+Carbon +Viton(Hot water) |
| 06 | Impeller | brass |
| 07 | Flow switch plus check vavle | Nylon+POM |
| 08 | Pressure switch | Nylon |
| 09 | Pressure tank | SP CC |
| 10 | Motor fan | PP |
| 11 | Fan cover | PP |
| 12 | Pump base | ABS |
| 13 | Wiring box | ABS |
| 14 | Filling plug | Nylon |
| 15 | Flange | FC200 |
| 16 | Flange gasket | NBR |

Key Components Description



| | |
|---|--|
| A | Patented wind-collecting type centrifugal fan design provides great heat dissipation for motor and reduces wind noise |
| B | Patented intelligent pump controller highly integrates flow switch, pressure switch, and provides useful functions like dry-run protection, anti-block and delayed shutdown, (within 5 seconds) which help to achieve smother operation, more comfortable water shower and longer product life |
| C | Motor auto reset thermal protection for longer motor life |
| D | High rust resistant durable baked epoxy coating finish |
| E | Patented precise pressure switch design provides stable water pressure. The cut-in pressure setting can be slightly adjusted by hand |
| F | Patented balanced flow switch design provides stable water flow |
| G | In-let screen design prevents debris from getting into pump casing |
| H | Special impeller and flow channel design highly increase pump performance and self-priming ability under ultra-silent operation |
| I | Pump casing auto reset thermal protection to prevent dry running |
| J | Double stainless steel bushing design prevents impeller lock and wear |



In view of the continuous developments the information/descriptions/specifications/illustration are subject to change without prior notice.