90℃

## Limits of use

- Ambient temperature: Up to +40℃
- Liquid temperature: Up to +90℃
- PH value of liquid between 6.5-8.5
- Power:50hz, single-phase 220v, three-phase 380v, fluctuated up and down 10%

## Application

Our hot water centrifugal pump has found a wide range of applications in different places as listed below.

- Domestic hot water circulation system in bathrooms, hotels, villas, residential areas, public baths, etc.
- Hot water circulation system for boilers, water heaters, air source heat pumps (ASHP), ground source heat pumps (GSHP), solar water heating systems, etc.
- Hot water pressure boosting system and hot water return system.

## Feature

The MCPG series hot water centrifugal pump is an inline centrifugal pump with compact structure. It runs steadily, and its installation and maintenance are both very convenient.

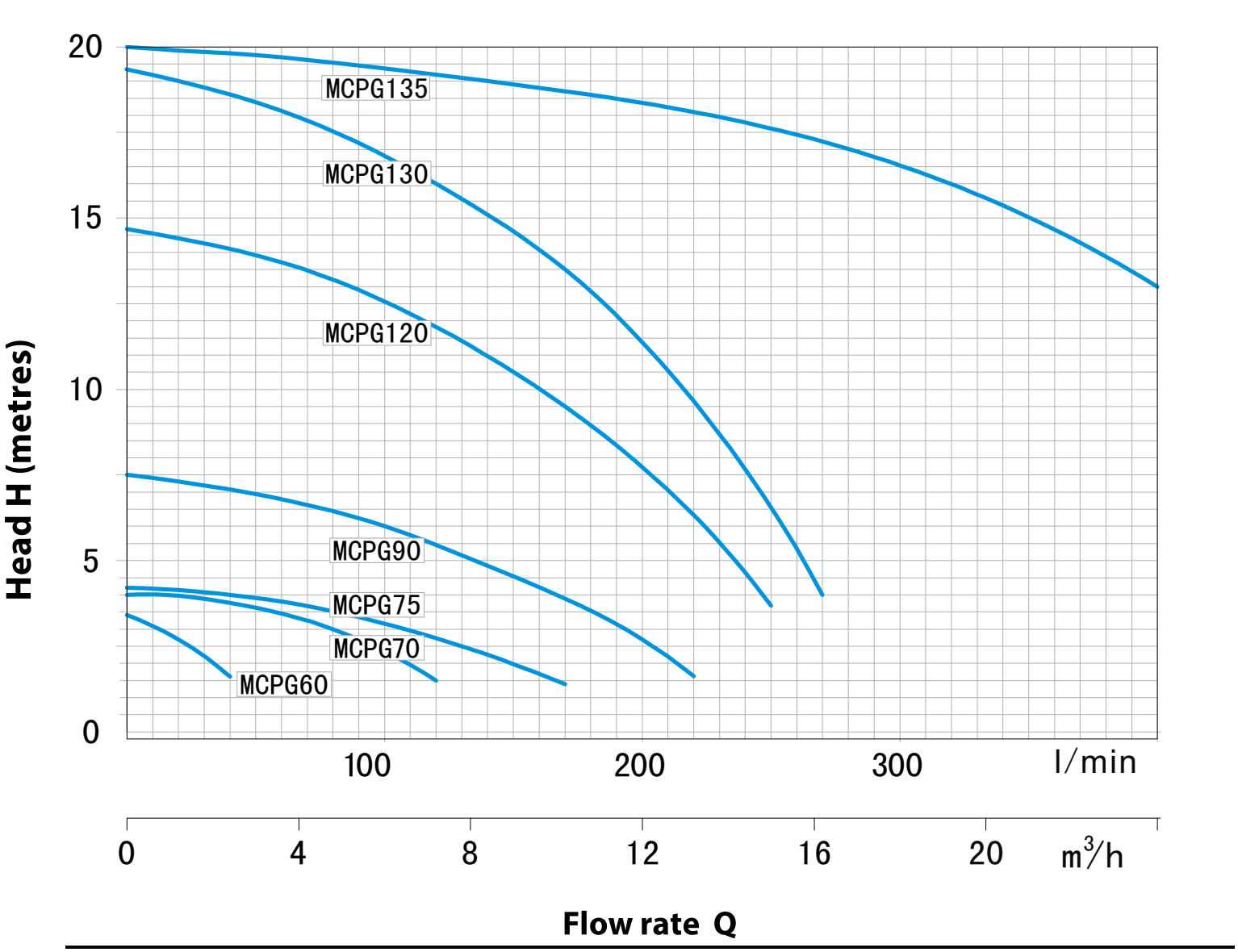
- The motor is outfitted with an overheat protector, and its cooling fan is very effective for heat dissipation. As a result, our horizontal centrifugal pump shows a prolonged service life.
- The highly efficient impeller effectively reduces noise level, and the high quality mechanical seal also extends the life span of this hot water booster pump.

## Warranty

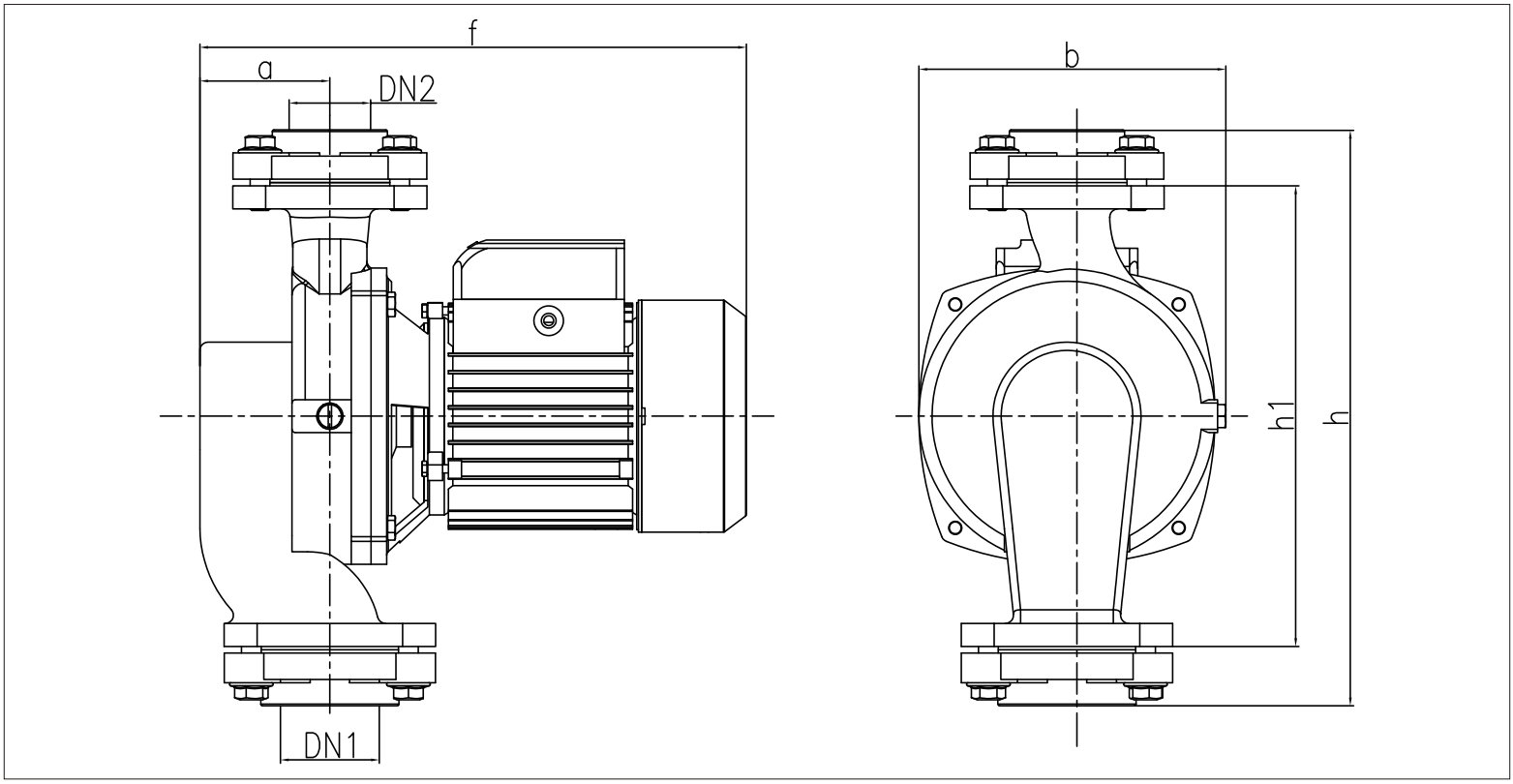
- 2 years subject to terms and conditions

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

**50 Hz n=2850 rpm** Hs=0 m




| Model | | Power | | Q | $m^3/h$ | 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3.6 | 4.8 | 6.0 | 7.2 | 8.4 | 10.2 | 12.0 | 13.2 | 15.0 | 16.2 | 19.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | KW | HP | | l/min | 0 | 10 | 20 | 30 | 40 | 60 | 80 | 100 | 120 | 140 | 170 | 200 | 220 | 250 | 270 | 320 |
| MCPG60 | - | 0.04 | | H m | | 3.4 | 3.1 | 2.7 | 2.2 | 1.6 | | | | | | | | | | | |
| MCPG70 | - | 0.1 | | | | 4.0 | 4 | 3.9 | 3.8 | 3.7 | 3.5 | 3 | 2.4 | 1.5 | | | | | | | |
| MCPG75 | - | 0.12 | | | | 4.2 | 4.15 | 4.1 | 4.05 | 4 | 3.7 | 3.5 | 3.1 | 2.7 | 2.2 | 1.4 | | | | | |
| MCPG90 | - | 0.25 | 0.33 | | | 7.5 | 7.4 | 7.3 | 7.2 | 7.1 | 6.9 | 6.5 | 6 | 5.5 | 4.9 | 3.9 | 2.7 | 1.6 | | | |
| MCPG120 | - | 0.4 | 0.55 | | | 14.7 | 14.5 | 14.4 | 14.3 | 14.1 | 13.7 | 13.2 | 12.5 | 11.8 | 11 | 9.5 | 7.7 | 6.3 | 3.7 | | |
| MCPG130 | - | 0.55 | 0.75 | | | 19.4 | 19.2 | 19 | 18.8 | 18.6 | 18.1 | 17.5 | 16.8 | 16 | 15.1 | 13.5 | 11.4 | 9.6 | 6.5 | 4 | |
| MCPG135 | - | 1.5 | 2 | | | 20 | 19.95 | 19.9 | 19.8 | 19.7 | 19.6 | 19.5 | 19.4 | 19.2 | 19 | 18.7 | 18.4 | 18.1 | 17.6 | 17.2 | 16 |




| Model | | Openings | | Dimensions(mm) | | | | |
|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | DN1 | DN2 | a | f | h | h1 | n |
| MCPG60 | - | 1" | 1" | 26 | 253 | 196 | 98 | 156 |
| MCPG70 | - | 1 1/2" | 1 1/2" | 48 | 284 | 278 | 139 | 146 |
| MCPG75 | - | 2" | 2" | 74 | 308 | 336 | 168 | 170 |
| MCPG90 | - | 2 1/2" | 2 1/2" | 75 | 305 | 352 | 176 | 181 |
| MCPG120 | - | 1 1/2" | 2" | 80 | 333 | 352 | 176 | 186 |
| MCPG130 | - | 1 1/2" | 2" | 80 | 333 | 352 | 176 | 186 |
| MCPG135 | - | 2" | 2" | 84 | 402 | 382 | 191 | 212 |

| Model | Piece | GW(kg) | NW(kg) | Volume(m3) | L(cm) | W(cm) | H(cm) |
|---|---|---|---|---|---|---|---|
| MCPG60 | 1 | 6.21 | 5.73 | 0.018 | 33.0 | 23.0 | 23.5 |
| MCPG70 | 1 | 13.00 | 12.50 | 0.024 | 37.0 | 29.0 | 22.6 |
| MCPG75 | 1 | 16.22 | 15.46 | 0.033 | 39.0 | 34.0 | 25.0 |
| MCPG90 | 1 | 16.41 | 16.00 | 0.037 | 38.5 | 36.0 | 26.5 |
| MCPG120 | 1 | 20.64 | 19.88 | 0.040 | 41.5 | 36.0 | 27.0 |
| MCPG130 | 1 | 21.53 | 20.80 | 0.040 | 41.5 | 36.0 | 27.0 |
| MCPG135 | 1 | 31.00 | 30.15 | 0.053 | 48.0 | 38.5 | 28.5 |

| POS. | COMPONENT | ADVANTAGE |
|---|---|---|
| ㉚ |  Thermostability Capacitor | • Thermostability system<br>a. Capacitor with 85℃ high temperature film<br>b. Can be used under sun exposure<br>c. Can be used under high temperature environment |
| ⑬ |  85mm Rotor with shaft (stainless steel shaft) | • Powerful motor system<br>a. To ensure the high power and lowest temperature rise<br>b. Using thermal protection device to protect the motor<br>c. Big flow and long using-life<br>d. Wide voltage rang design motor can be used under 170 - 250 V |
| ⑭ |  Z4 class bearing | • Low noise system<br>a. Using Z4 class bearing to ensure lowest noise<br>b. To ensure long using-life |