HAITIMA

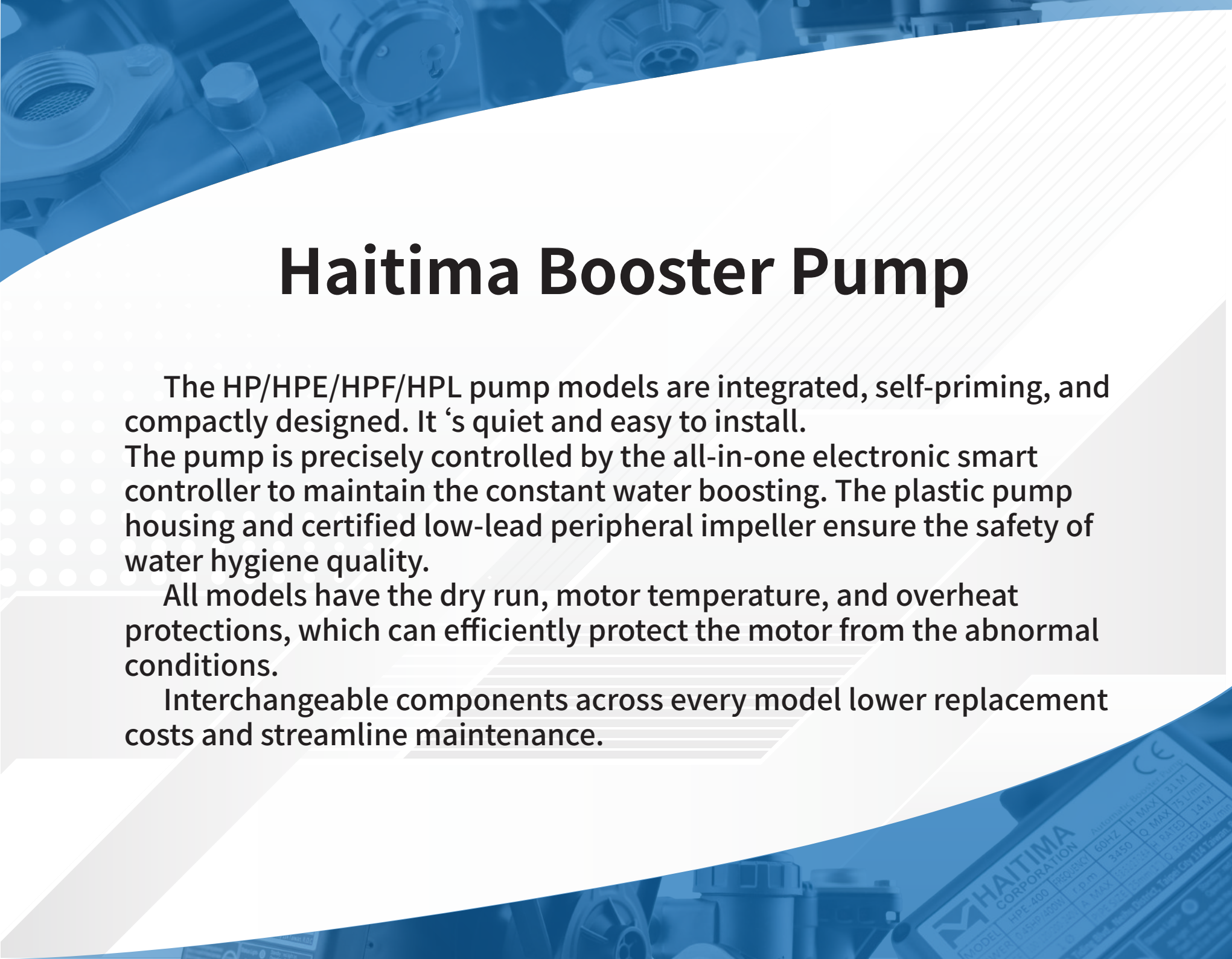
# Smart Booster Pump Series
# Smooth water pressurizing

# Haitima Booster Pump

The HP/HPE/HPF/HPL pump models are integrated, self-priming, and compactly designed. It ‘s quiet and easy to install.
The pump is precisely controlled by the all-in-one electronic smart controller to maintain the constant water boosting. The plastic pump housing and certified low-lead peripheral impeller ensure the safety of water hygiene quality.

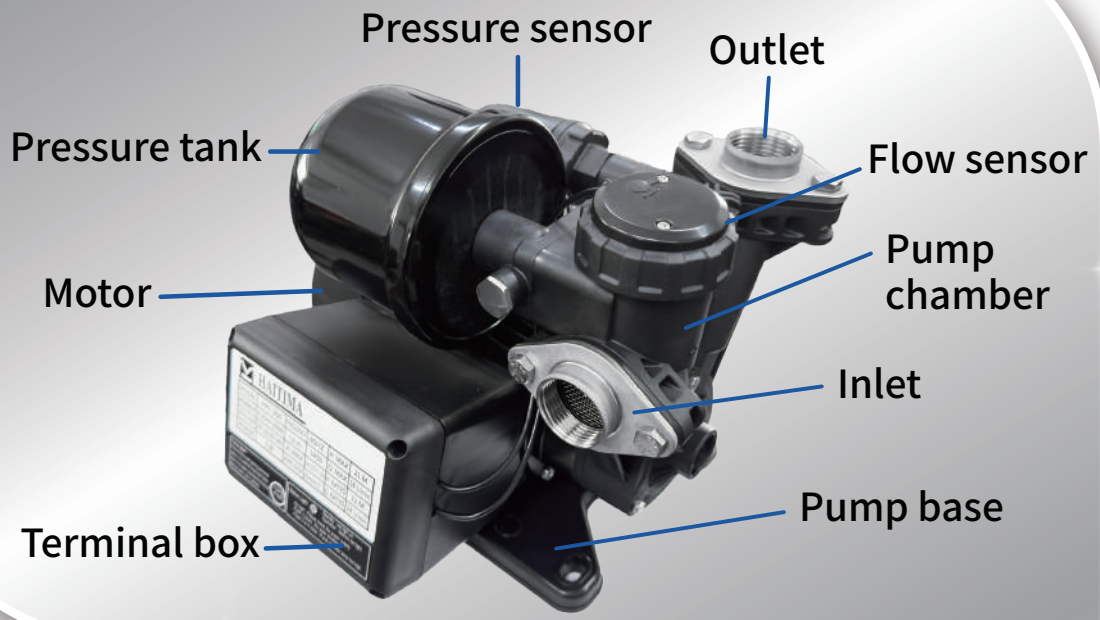
All models have the dry run, motor temperature, and overheat protections, which can efficiently protect the motor from the abnormal conditions.

Interchangeable components across every model lower replacement costs and streamline maintenance.

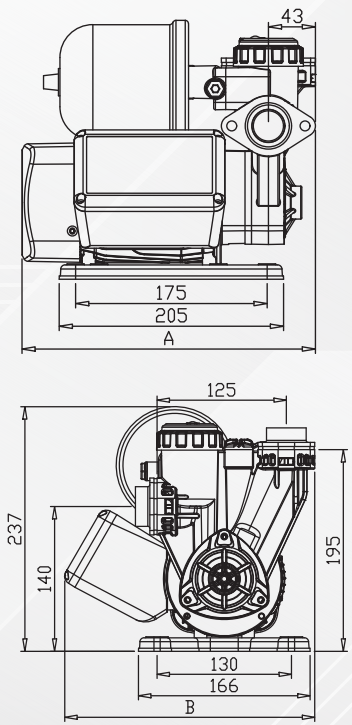


# HP/E Series

HP/E series is integrated with a pressure tank that can efficiently save power consumption. The key feature is a manual or auto 110V/220V voltage switch built into 60Hz models. The pump starts with the integrated pressure or flow sensor and is precisely controlled by the all-in-one microcontroller unit.



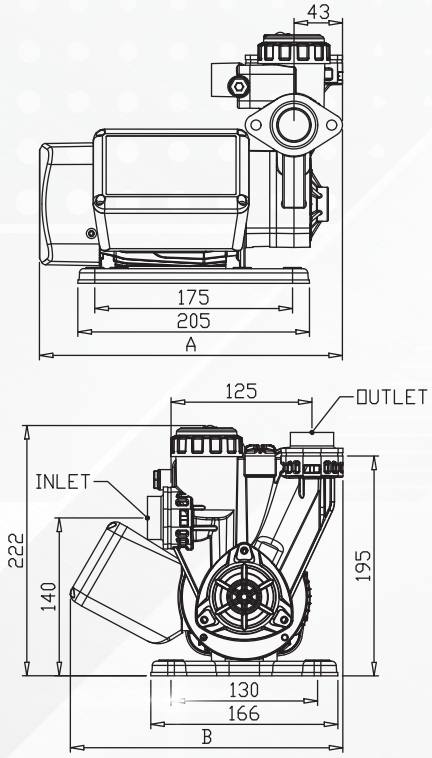

**Dimensions (mm)**

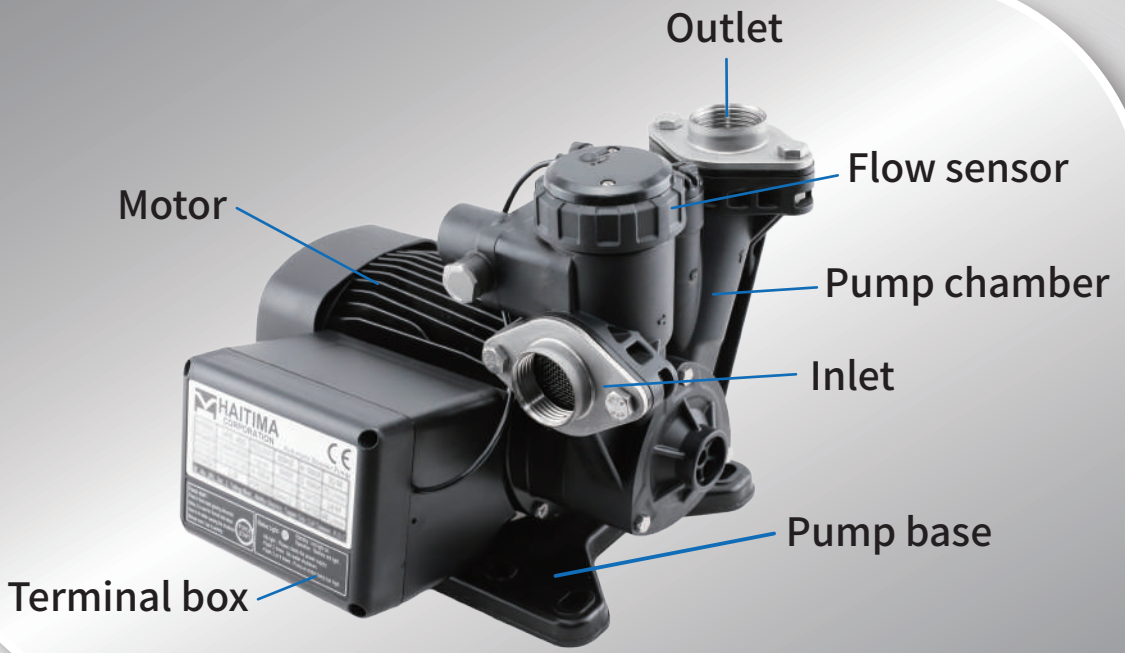


# HPF Series

HPF series is without the pressure tank. The F means this model is only starting by the flow sensor for low-pressure condition use. Also, the manual 110V/220V voltage switch built into 60Hz models. The pump is precisely controlled by the all-in-one microcontroller unit.

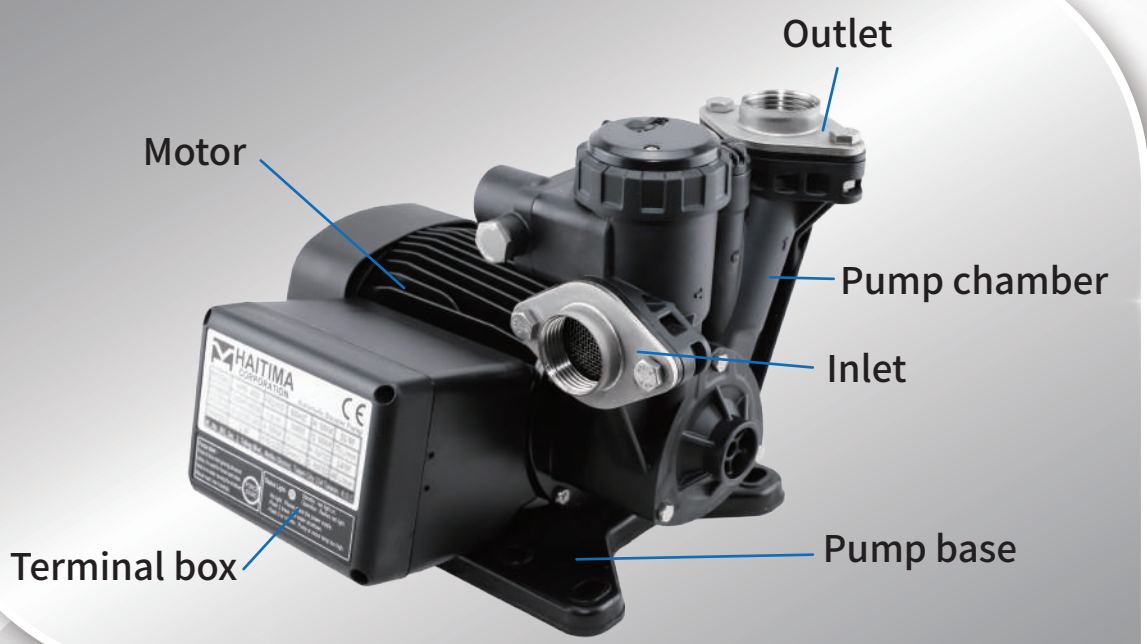
**Dimensions (mm)**



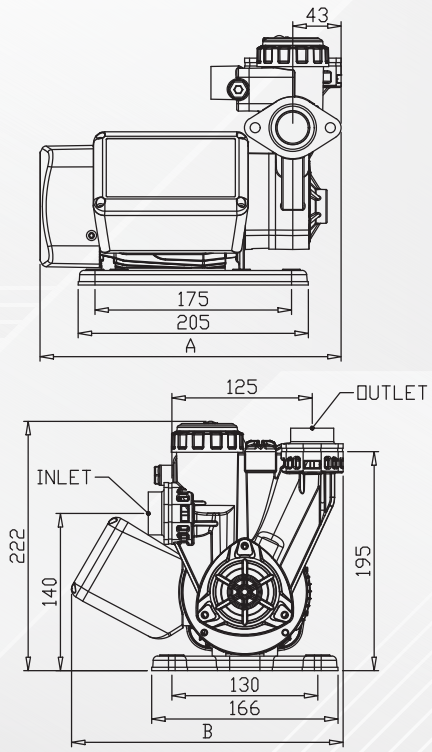



# HPL Series

The HPL series is a standard and entry-level booster pump without the pressure tank, which starts manually with constant water boosting. Also, the manual 110V/220V voltage switch built into 60Hz models.

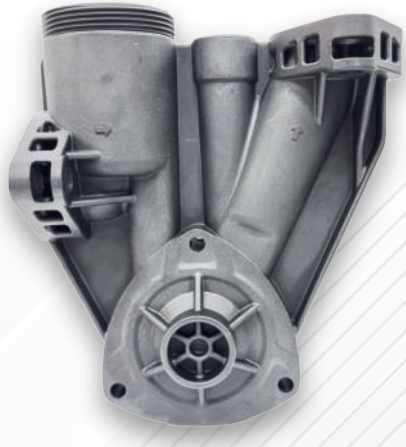



**Dimensions (mm)**



## Motor Cooling

The efficient cooling and quiet operation thanks to great motor design



## Pump Chamber

The plastic pump chamber keeps water hygiene and no rust issue.

## Overheat Protector

Two overheat protectors protect motor and pipeline from unexpected damage

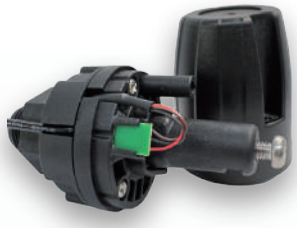
## Impeller

Lead free RoSH certified C6801 brass impeller keeps the water hygiene and its proprietary designed makes opertion quite and efficient.

## Pressure Tank

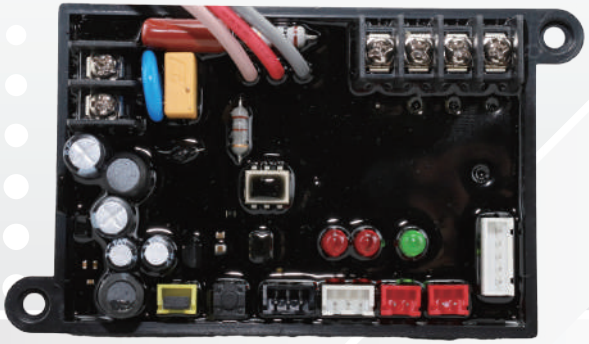
The tank is featured drinking water, energy saving and absorbed the water hammer impact.

Pressure sensor



Flow sensor

The flow and pressure sensors integrated with the automotive-grade Hall IC can operate in harsh environment and the accurate signal detection enables electronic control board to execute precise operation.



Electronic control board

The resin packaged all-in-one modular designed Single-chip microcomputer is featured precise control and easy use in harsh condition; and replacement simple and clear. The Switch IC protects motor and stabilizes the abnormal voltage of 30-300V.

Anti rust stainless steel inlet, outlet, and screen keep the water hygiene and particle entry.

Pump inlet and outlet

# Specification

## Model

H=HAITIMA P=Pump E=Eletronic

F=Flow L=Light

## Operating Condition

| | |
|---|---|
| Ambient temperature | 0°C ~ 40°C |
| Liquid temperature | 2°C ~ 45°C |
| Liquid | Water without particle |
| Liquid pH | 4~9 |
| Relative humidity | Max. 85% (RH) |
| Inlet/Outlet | Rp 1" or NPT 1" |
| System Pressure | Max. 5 kg/cm² (200W-400W models)<br>Max. 7 kg/cm² (600W and 800W models) |

| Components | Material |
|---|---|
| Motor Frame | Aluminum |
| Pump Casing | PPS+Glass Fiber |
| Shaft | SUS400 |
| Mechanical Seal | Ceramic+Carbon |

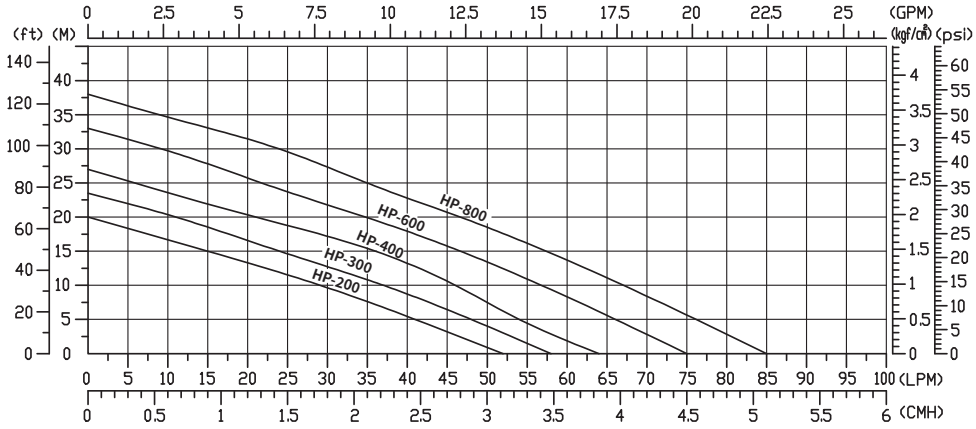
## Motor Spec

| | |
|---|---|
| Motor Type | 2 POLE, totally enclosed fan-cooled |
| Frequency | 50HZ or 60HZ |
| Standard Voltages | 1Φ 220-240V(50HZ)<br>1Φ 100-120/200-240V(60HZ) |
| Insulation Class | F class (155°C) |
| Enclosure Protection Class | IP 54 |
| Nominal Speed | 2850 rpm(50HZ)<br>3450 rpm(60HZ) |
| Noise level | < 48 dB |

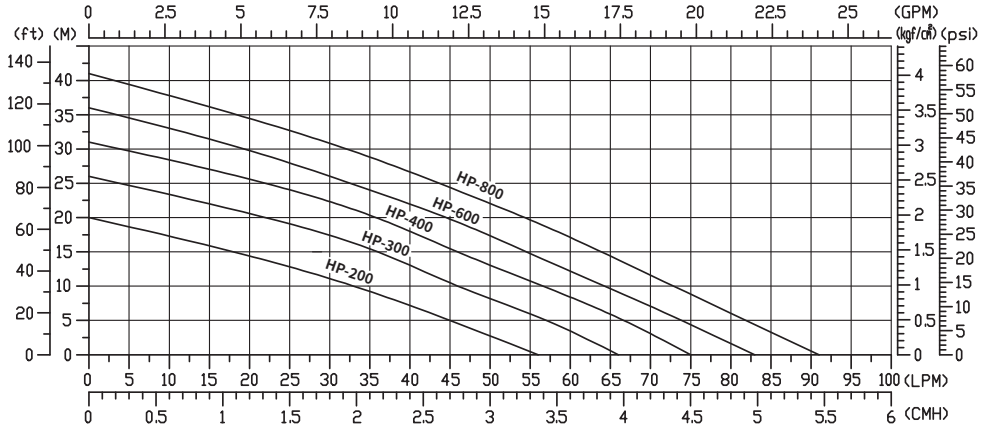
# Protective function

| Function/Model | HP | HPE | HPF | HPL |
|---|---|---|---|---|
| Flow detection start | ○ | ○ | ○ | X |
| Pressure detection start | ○ | ○ | X | X |
| Dry run protection | ○ | ○ | ○ | ○ |
| Dry run recovery | AUTO/MANUAL | AUTO/MANUAL | AUTO/MANUAL | X |
| Abnormal voltage protection | ○ | X | X | X |
| Motor Temperature protection | ○ | ○ | ○ | ○ |
| Overheat protection | ○ | ○ | ○ | ○ |
| 24H Auto operation | ○ | ○ | ○ | X |
| Dual voltage switching | AUTO | MANUAL | MANUAL | MANUAL |
| Status indicator light | ○ | ○ | ○ | X |
| Soft stop function | ○ | ○ | ○ | X |
| Water suction function | ○ | ○ | ○ | ○ |
| Water hammer protection | ○ | ○ | X | X |
| Flow sensor signal light | ○ | ○ | ○ | X |
| Pressure sensor signal light | ○ | ○ | X | X |
| Forced start button | ○ | ○ | ○ | X |
| Built-in check valve | ○ | ○ | ○ | ○ |

# Performance Curve(50HZ)



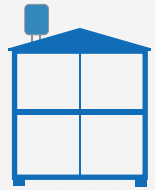
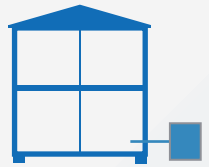
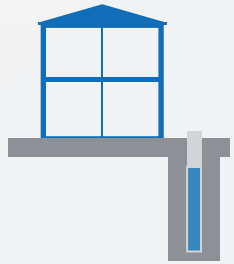

# Performance Curve(60HZ)




*Model=HP=HP/E/F/L

| Model | Power | | Frequency | Phase (Φ) | Voltage (V) | A MAX (A) | Head (Pressure) | | Flow (Capacity) | | Pipe Connection | Units/ Pallet | Pallet Dimension L x W x H(cm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HP | Watt | | | | | Rated (M) | MAX. (M) | Rated (L/Min) | MAX. (L/Min) | | | |
| HP-200 | 1/4 | 200 | 50hz | 1 | 220-240 | 1.2-1.1 | 11 | 20 | 26.5 | 52 | Rp 1” | 112 | 110x110x200 |
| HP-300 | 1/3 | 300 | 50hz | 1 | 220-240 | 1.5-1.4 | 12.5 | 23.5 | 31 | 56 | Rp 1” | 112 | 110x110x200 |
| HP-400 | 1/2 | 400 | 50hz | 1 | 220-240 | 1.7-1.6 | 14 | 27 | 38 | 64 | Rp 1” | 112 | 110x110x200 |
| HP-600 | 3/4 | 600 | 50hz | 1 | 220-240 | 3.0-2.8 | 15.5 | 33 | 45.5 | 75 | Rp 1” | 84 | 110x110x200 |
| HP-800 | 1 | 800 | 50hz | 1 | 220-240 | 3.8-3.5 | 17 | 38 | 53.5 | 85 | Rp 1” | 84 | 110x110x200 |

| Model | Power | | Frequency | Phase (Φ) | Voltage (V) | A MAX (A) | Head (Pressure) | | Flow (Capacity) | | Pipe Connection | Units/ Pallet | Pallet Dimension L x W x H(cm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HP | Watt | | | | | Rated (M) | MAX. (M) | Rated (L/Min) | MAX. (L/Min) | | | |
| HP-200 | 1/4 | 200 | 60hz | 1 | 100-120/220-240 | 3.4-3.0/1.7-1.5 | 11 | 21 | 28 | 56 | Rp 1”/NPT 1” | 112 | 110x110x200 |
| HP-300 | 1/3 | 300 | 60hz | 1 | 100-120/220-240 | 4.6-4.0/2.3-2.0 | 12.5 | 26 | 41 | 66 | Rp 1”/NPT 1” | 112 | 110x110x200 |
| HP-400 | 1/2 | 400 | 60hz | 1 | 100-120/220-240 | 5.8-5.2/2.7-2.6 | 14 | 31 | 48 | 75 | Rp 1”/NPT 1” | 112 | 110x110x200 |
| HP-600 | 3/4 | 600 | 60hz | 1 | 100-120/220-240 | 7.8-7.2/3.9-3.6 | 15.5 | 36 | 53.5 | 84 | Rp 1”/NPT 1” | 84 | 110x110x200 |
| HP-800 | 1 | 800 | 60hz | 1 | 100-120/220-240 | 10.0-9.2/5.0-4.6 | 17 | 41 | 58 | 91 | Rp 1”/NPT 1” | 84 | 110x110x200 |

| GOOD | BEST | |
|---|---|---|
| HPF  | HP/E  | Boosting from roof tank  |
| HP/E  | HPL  | Boosting from tank  |
| HPL  | HPF  | Boosting from mains  |
| HP/E  | HPL  | Self priming out of wells and the water level down to max 8m.  |

| Floors/Taps | 1~2 | 2~3 | 3~4 | 4~5 | 5~6 | 6~8 | |
|---|---|---|---|---|---|---|---|
| 5 | HP-400 | HP-400 | HP-600 | HP-600 | HP-800 | HP-800 | *Model= HP= HP/E/F/L |
| 4 | HP-300 | HP-300 | HP-400 | HP-600 | HP-600 | HP-800 | |
| 3 | HP-200 | HP-300 | HP-400 | HP-600 | HP-600 | HP-800 | |
| 2 | HP-200 | HP-200 | HP-300 | HP-400 | HP-600 | HP-800 | |
| 1 | HP-200 | HP-200 | HP-300 | HP-400 | HP-600 | HP-800 | |

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