

# HQ Series Electronic Control Pump



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# **HQ Series Electronic Control Pump**













#### 60 Hz

Power: 1/4 - 1 HP Head: Up to 64 psi Flow: Up to 31.7 GPM

Outlet: 1" Inlet: 1"

## **Applications**

The HQ series pumps are designed for water supply and pressure boosting in residential, commercial and light industrial applications where low or inadequate water pressure exists. It is suitable for boosting pressure from underground or surface water supplies.

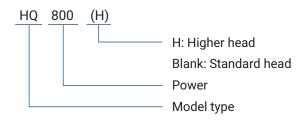
#### Suitable liquids

Potable water or other clean and non-corrosive liquids.

#### **Operating Conditions**

- Ambient temperature: Max. +104 °F (40°C)
- Liquid temperature:  $+39 \,^{\circ}F \, (4^{\circ}C) \sim +104 \,^{\circ}F \, (40^{\circ}C)$
- System pressure: Max. 120 PSI
- Relative humidity: Max. 85% (RH)

#### Product code

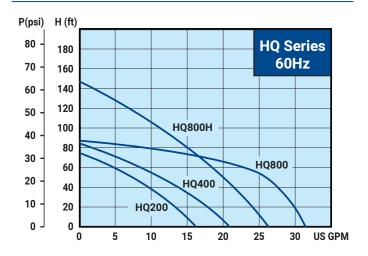


#### **Product Features**

- The HQ is a complete, all-in-one unit, consisting of pump, motor, pressure tank, and electronic controller. The builtin electronic controller ensures that the pump starts automatically when water is consumed and operates continuously until water is not required. It will also protect the pump when it is in faulty conditions.
- Compact design and quiet operation make the HQ series suitable for many applications.
- Impellers are constructed of stainless steel for greater durability.
- The built-in indicator lights on top panel will display the pump's working condition and diagnosis.
- Provide 2 different head designs for 1HP model:
  - HQ800 with standard head is ideal for boosting city water so that PRV is no more required.
  - HQ800H with higher head is ideal for tank system that require higher boost pressure.
- The built-in protective functions will shut off the pump
- Offer the new designed cast aluminum motor for higher efficiency and lower amperage draw.



#### **Performance Curve**



### **Suction Lift Performance Table**

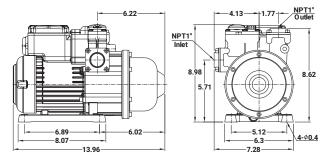
| Model  | Discharge<br>pressure<br>psi | 0'           | Flow<br>5'   | ion lift     | 25'          |              |              |
|--------|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| HQ200  | 10<br>20                     | 12.2<br>7.7  | 11.2<br>6.7  | 10.2<br>5.5  | 9.3<br>4.3   | 8.3<br>3.1   | 7.3<br>1.8   |
| HQ400  | 10<br>20                     | 18.5<br>12.6 | 17.5<br>11.0 | 16.3<br>9.6  | 14.9<br>8.0  | 13.5<br>6.4  | 12.0<br>4.6  |
| HQ800  | 10<br>20                     | 30.7<br>26.8 | 30.4<br>25.3 | 29.8<br>23.8 | 28.8<br>22.1 | 27.7<br>19.8 | 26.3<br>16.8 |
| HQ800H | 30<br>10                     | 17.5<br>24.5 | 14.2<br>23.5 | 10.0<br>22.8 | 4.0<br>22.0  | 0.0<br>21.5  | 0.0<br>20.8  |
|        | 20<br>30                     | 21.6<br>17.5 | 20.8<br>16.3 | 19.5<br>15.5 | 18.8<br>14.5 | 18.0<br>13.8 | 17.3<br>12.8 |
|        | 40<br>50                     | 13.2<br>7.8  | 12.2<br>7.2  | 11.3<br>5.8  | 9.8<br>4.7   | 9.3<br>3.3   | 7.8<br>2.0   |

#### **Materials**

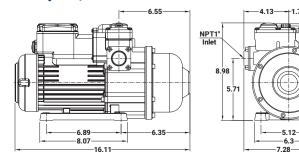
| Part Name                        | HQ200 HQ400                   | HQ800 HQ800H |  |  |  |  |  |
|----------------------------------|-------------------------------|--------------|--|--|--|--|--|
| Pump casing                      | Glass filled noryl            |              |  |  |  |  |  |
| Filling plug<br>Outlet & Inlet   | Glass filled nylon<br>SUS 304 |              |  |  |  |  |  |
| Intermediate chamber<br>Impeller | SUS 304<br>SUS 304            |              |  |  |  |  |  |
| Mechanical seal                  | Ceramic+Carbon+NBR            |              |  |  |  |  |  |
| Shaft                            | SUS 304                       | S45C+SUS 316 |  |  |  |  |  |
| Motor shell                      | Aluminum alloy                |              |  |  |  |  |  |

## **Dimensions (in.)**

#### ■ HQ200/400



#### ■ HQ800/800H





# HQ Series 60Hz

| Model  | Power<br><b>HP</b> | Cycle<br>Hz | Phase Ø | Volt<br><b>V</b> | Amp's<br>A  | Inlet<br>NPT | Outlet <b>NPT</b> | Preset activation pressure psi | Max discharge pressure psi | Q max.<br><b>GPM</b> | Faucet | N.W. |
|--------|--------------------|-------------|---------|------------------|-------------|--------------|-------------------|--------------------------------|----------------------------|----------------------|--------|------|
| HQ200  | 1/4                | 60          | 1       | 115 or 230       | 4.0 or 2.0  | 1"           | 1"                | 20                             | 32                         | 15.8                 | 4      | 16.5 |
| HQ400  | 1/2                | 60          | 1       | 115 or 230       | 6.0 or 3.0  | 1"           | 1"                | 22                             | 37                         | 21.1                 | 6      | 18.7 |
| HQ800  | 1                  | 60          | 1       | 115 or 230       | 10.0 or 5.0 | 1"           | 1"                | 25                             | 38                         | 31.7                 | 13     | 23.8 |
| НQ800Н | 1                  | 60          | 1       | 115 or 230       | 10.0 or 5.0 | 1"           | 1"                | 31                             | 64                         | 26.4                 | 10     | 24.1 |

<sup>-</sup> Assuming an average delivery of 2 GPM per tap and a 20 psi discharge pressure.



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All specifications are subject to change without notice. HQ-US003-202403







