DuraMAC™ Booster Pumps

Not all boosting applications require complicated boosting systems. The DuraMAC™ Boosting system is simple, versatile, sophisticated, and reliable. With an easy set-up installation and a versatile control with three modes of operation, this pump is flexible enough to meet your commercial or irrigation needs.

The 304 stainless steel version of the DuraMAC™ Booster pump will meet the needs of boosting water pressure from Reverse Osmosis (RO) systems, low PH and other aggressive water applications which would be corrosive to no-lead brass and metal pipes.

**Features:**
- Water pressure boosting system for residential, irrigation, or light commercial use
- Easy set-up installation
- All metal connections - no plastic threads
- Half-gallon pressure tank included
- TEFC single phase motor for quiet operation
- Electronics separated and sealed from waterway
- No-Lead Brass / 304 stainless steel check valve included
- Dry-Run protection
- 1” inlet and outlet
- 1 year warranty

**Materials of Construction**
- Impellers: 304 Stainless Steel
- Pump Casing Inlet: 301 Stainless Steel
- Pump Casing Outlet: 301 Stainless Steel
- Pump Seal (stationary): Silicon Carbide
- Pump Seal (rotating): Carbon / NBR
- Diffuser: 304 Stainless Steel
- Check Valve: No-Lead Brass / Stainless Steel
- Pump Controller Cross: No-Lead Brass / Stainless Steel

**Models Available**

<table>
<thead>
<tr>
<th>DuraMAC™ Model</th>
<th>Pump Boost</th>
<th>Amps</th>
<th>Voltage</th>
<th>Power</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>18035R020PC1</td>
<td>35 PSI</td>
<td>5.5</td>
<td>120 - 60 Hz</td>
<td>1/2 HP</td>
<td>27.1</td>
</tr>
<tr>
<td>18052R020PC1</td>
<td>52 PSI</td>
<td>7.0</td>
<td>120 - 60 Hz</td>
<td>3/4 HP</td>
<td>27.7</td>
</tr>
<tr>
<td>18035R020PC1SS</td>
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<td>5.5</td>
<td>120 - 60 Hz</td>
<td>1/2 HP</td>
<td>27.1</td>
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</tr>
</tbody>
</table>
E-Series DuraMAC™ Booster Pump

Sizing Information
E-Series DuraMAC™ Booster Systems are designed to shut off when no flow is detected. Pump total pressure boost should be added to current household system pressure to determine total system pressure when boosted. Note: It is not recommended to exceed 80 PSI total boosted household pressure.

Example:
Household system pressure before boost = 30 PSI

\[
\begin{align*}
30 \text{ PSI (Household Pressure)} & \quad + \quad \text{Total Pump Pressure} \\
\text{Total Pressure After Boost} & \quad = \\
& \quad = 65 \text{ PSI}
\end{align*}
\]

Models Available:  
18035R020PC1 +35
18052R020PC1 +52

Based on this example, the recommended model for this application is the 18035R020PC1.

For systems with fluctuating pressure, a pressure reducing valve is recommended to assure system pressure stays below 80 PSI.

Typical Installation

**CITY OR WELL SUPPLY**

- City or well supply
- Pressure reducing valve
- Union
- Valve
- Bypass valve
- Union
- Check valve

**SUCTION LIFT**

10 Ft. Max

- Suction pipe
- Foot valve
- Prime plug
- Stand pipe

Dimensional Information

Sizing Chart
Total static pressure DuraMAC™ pump

<table>
<thead>
<tr>
<th>Incoming Pressure (PSI)</th>
<th>18035R020PC1 +35 PSI</th>
<th>18052R020PC1 +52 PSI</th>
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<tbody>
<tr>
<td>60</td>
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CONTACT FACTORY