Not all boosting applications require complicated boosting systems. The DuraMAC™ Boosting system is simple, versatile, sophisticated, and reliable. Quite simply, it is the world's most versatile boosting system for commercial or irrigation use.

- Water Pressure Boosting System for irrigation or light commercial use
- Easy set-up installation
- Digital control for three modes of operation
- Durable stainless steel and no-lead brass connections
- Two gallon pressure tank included
- TEFC single phase motor for quiet operation
- Electronics separated and sealed from waterway
- Pressure gauge included
- No-Lead brass check valve included
- Dry-Run protection

Pressure tank required. See instruction manual for sizing information.

*Many plumbing codes do not recommend system pressure exceeding 80 PSI. Refer to local plumbing codes for maximum boosted pressure.

**NO-LEAD:** The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter (0.25%) lead.

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A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by:
Sizing Information

DuraMAC™ Booster Systems are designed to shut off when no flow is detected. Pump pressure boost should be added to current system pressure to determine total system pressure when boosted.

Example:

Household system pressure before boost = 30 PSI

\[
\text{Total Pressure After Boost} = \text{Household Pressure} + \text{Boost}
\]

Based on this example, the recommended model for this application is the 17035R020PC1.

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

Sizing Chart

<table>
<thead>
<tr>
<th>Total static pressure</th>
<th>DuraMAC™ pump</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Incoming Pressure (PSI)</strong></td>
<td><strong>17035R020PC1</strong></td>
</tr>
<tr>
<td>60</td>
<td>+35</td>
</tr>
<tr>
<td>55</td>
<td>90</td>
</tr>
<tr>
<td>50</td>
<td>85</td>
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<td>45</td>
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<td>55</td>
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<td>15</td>
<td>50</td>
</tr>
<tr>
<td>10</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
- Suction Check Valve: No-Lead Brass
- Pump Control Body: No-Lead Brass

Typical Installation

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one percent (0.25%) lead.

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