E-Series DuraMAC™ - Residential Booster

Not all boosting applications require complicated boosting systems. The E-Series DuraMAC™ Boosting system is simple and reliable.

E-Series DuraMAC™ Booster Pumps
Residential  |  Light Commercial  |  Irrigation

SUBMITTAL DATA SHEET

Not all boosting applications require complicated boosting systems. The E-Series DuraMAC™ Boosting system is simple and reliable.

20 Gallon/Minute (GPM) Max

<table>
<thead>
<tr>
<th>E-Series DuraMAC™ Model</th>
<th>Pump Boost</th>
<th>Amps</th>
<th>Length &quot;L&quot;</th>
<th>Voltage</th>
<th>Power</th>
<th>Pressure Reducing Valve recommended for installation with incoming pressure greater than:</th>
</tr>
</thead>
<tbody>
<tr>
<td>18035R020PC1</td>
<td>35 PSI</td>
<td>5.5</td>
<td>13&quot;</td>
<td>120 - 60 Hz</td>
<td>1/2 HP</td>
<td>45 PSI</td>
</tr>
<tr>
<td>18052R020PC1</td>
<td>52 PSI</td>
<td>7.0</td>
<td>13.7&quot;</td>
<td>120 - 60 Hz</td>
<td>3/4 HP</td>
<td>28 PSI</td>
</tr>
</tbody>
</table>

*See chart below

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.

SUBMITTAL INFORMATION

- Water Pressure Boosting System for residential, irrigation or light commercial use
- Easy set-up installation
- Digital control
- Durable connections - no plastic connections
- Half gallon pressure tank included
- TEFC single phase motor for quiet operation
- Electronics separated and sealed from waterway
- Check valve included
- Dry-Run protection

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

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

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

\[
\begin{array}{c|c|c}
\text{Household Pressure} & \text{Total Pump Pressure} & \text{Total Pressure After Boost} \\
\hline
30 & + & 35 \quad \text{Total Pressure After Boost} \\
\end{array}
\]

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.

Sizing Chart

<table>
<thead>
<tr>
<th>Incoming Pressure (PSI)</th>
<th>18035R020PC1</th>
<th>18052R020PC1</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>+35</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td></td>
<td>+52</td>
</tr>
<tr>
<td>50</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>70</td>
<td>87</td>
</tr>
<tr>
<td>30</td>
<td>65</td>
<td>82</td>
</tr>
<tr>
<td>25</td>
<td>60</td>
<td>77</td>
</tr>
<tr>
<td>20</td>
<td>55</td>
<td>72</td>
</tr>
<tr>
<td>15</td>
<td>50</td>
<td>67</td>
</tr>
<tr>
<td>10</td>
<td>45</td>
<td>62</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
- Diffuser: 304 Stainless Steel
- Check Valve: No-Lead Brass
- Pump Controller: No-Lead Brass

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:

A.Y. McDonald Mfg. Co.
P.O. Box 508
Dubuque, IA 52004-0508

Toll Free: 1-800-292-2737
Fax: 1-800-832-9296
Hours: 7:00 a.m. – 5:00 p.m., CST

sales@aymcdonald.com
www.aymcdonald.com

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