



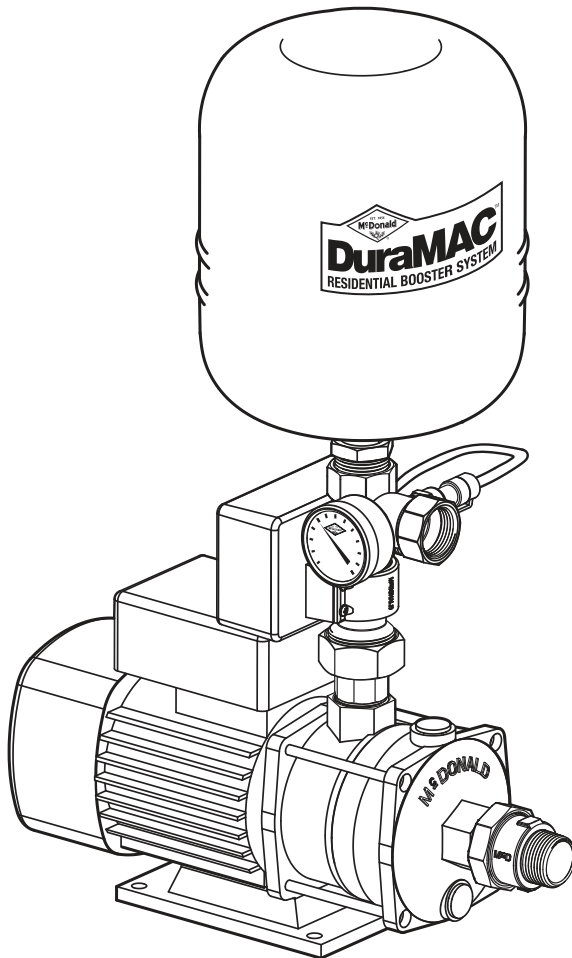
SPECIFICATIONS

DuraMAC™ Water Pressure Booster System

17035R020PC1, 17052R020PC1, 17070R020PC2
Water Pressure Booster Systems



barrplastics.com
1-800-665-4499



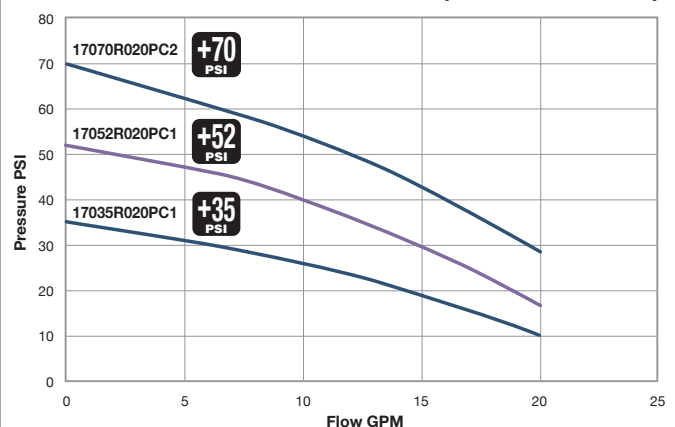
Features

- Water Pressure Boosting System for residential or light commercial use
- Easy Set-up and Installation
- Digital Control with three modes of operation
- Durable Stainless Steel and No-Lead Brass Connections
- Two Gallon Pressure Tank
- 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

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
Suction Check Valve	No-Lead Brass
Pump Controller	No-Lead Brass

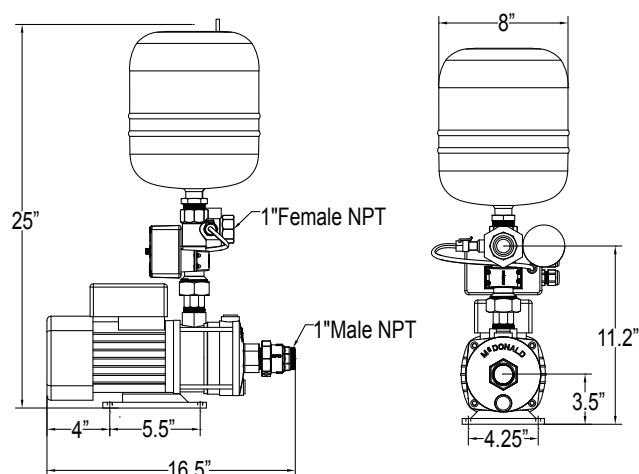
DuraMAC™ Performance (Additional Boost)



Specifications

DuraMAC™ Model	Pump Boost	Amps	Voltage	Power	*Maximum incoming pressure
17035R020PC1	35 psi	5.5	120 - 60 Hz	½ HP	45 psi
17052R020PC1	52 psi	7.0	120 - 60 Hz	¾ HP	28 psi
17070R020PC2	70 psi	4.0	230 - 60 Hz	1 HP	10 psi (for use with holding tank)

Dimensional Information

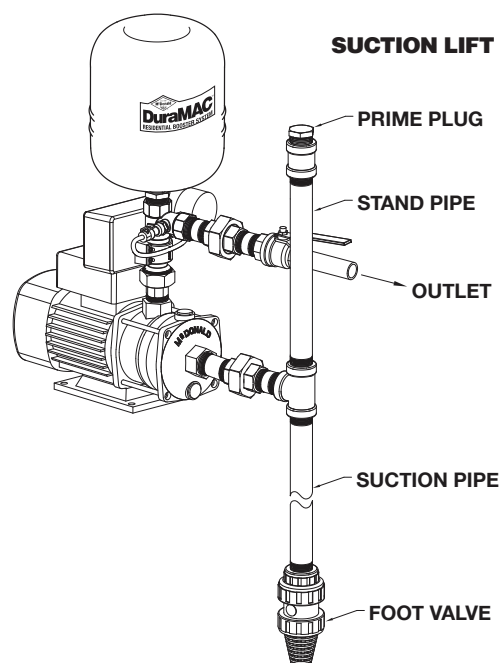
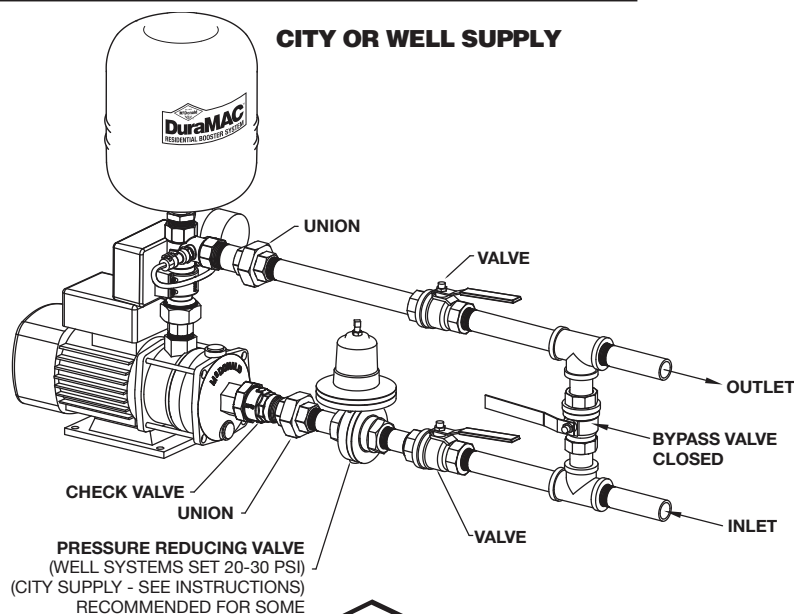


Sizing Chart

Total static pressure **DuraMAC™** pump

Incoming Pressure (PSI)	17035R020PC1 +35	17052R020PC1 +52	17070R020PC2 +70
60			
55	90		
50	85		
45	80		
40	75		
35	70	87	
30	65	82	
25	60	77	
20	55	72	90
15	50	67	85
10	45	62	80

Typical Installation



Sizing Information

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

$$\begin{array}{rcl}
 \text{30} & + & \\
 \text{Household Pressure} & & \text{Total Pump Pressure} \\
 & & \text{Total Pressure After Boost}
 \end{array}
 =
 \begin{array}{rcl}
 & & \\
 & & \\
 & &
 \end{array}$$

*Not Recommended to Exceed 80 PSI

Models Available: Boost

17035R020PC1 +35
17052R020PC1 +52
17070R020PC2 +70

$$\begin{array}{rcl}
 \text{30} & + & \text{35} \\
 \text{Household Pressure} & & \text{Total Pump Pressure} \\
 & & \text{Total Pressure After Boost}
 \end{array}
 =
 \begin{array}{rcl}
 & & \\
 & & \\
 & & \text{65}
 \end{array}$$

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.



A.Y. McDonald Mfg. Co.



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