



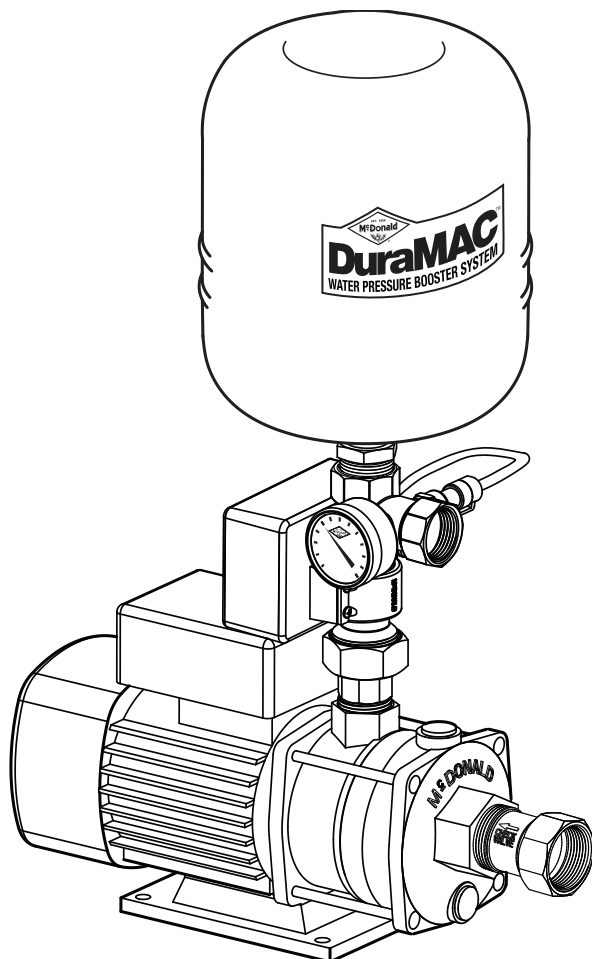
## SPECIFICATIONS

# DuraMAC™ Water Pressure Booster System

17040C035PC2, 17062C035PC2, 17078C035PC2  
Water Pressure Booster Systems



barrplastics.com  
1-800-665-4499



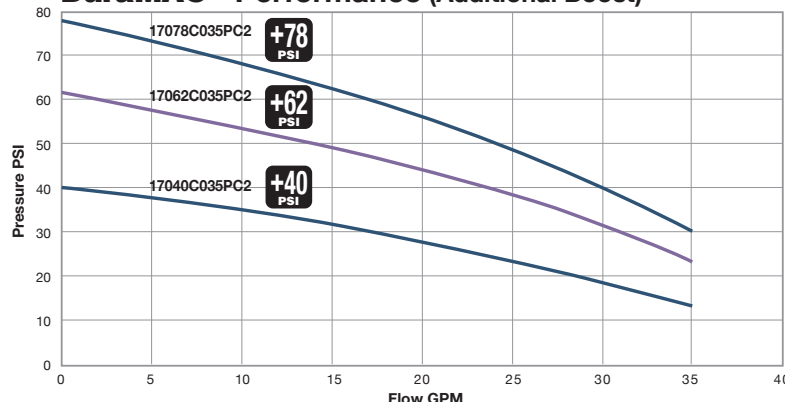
## Features

- Water Pressure Boosting System for irrigation 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 / NBR
Diffuser	304 Stainless Steel
Suction Check Valve	No-Lead Brass
Pump Controller	No-Lead Brass

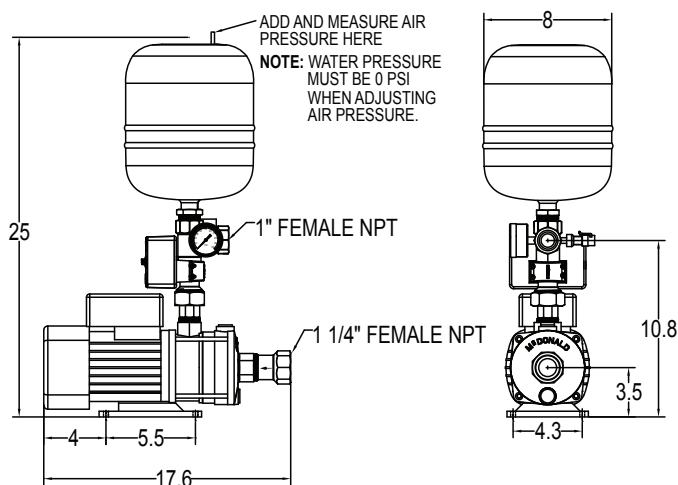
**DuraMAC™ Performance (Additional Boost)**



## Specifications

DuraMAC™ Model	Pump Boost	Amps	Voltage	Power	*Maximum incoming pressure
17040C035PC2	40 psi	5.0	230 - 60 Hz	1 HP	40 psi
17062C035PC2	62 psi	6.3	230 - 60 Hz	1 HP	18 psi
17078C035PC2	78 psi	6.8	230 - 60 Hz	1½ HP	2 psi (for use with holding tank only)

## Dimensional Information

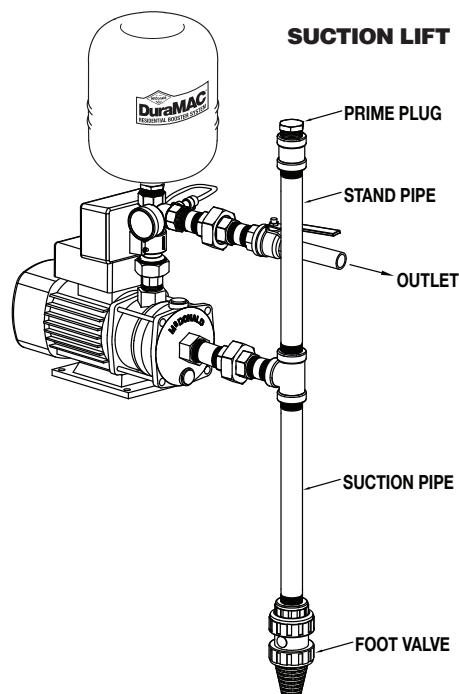
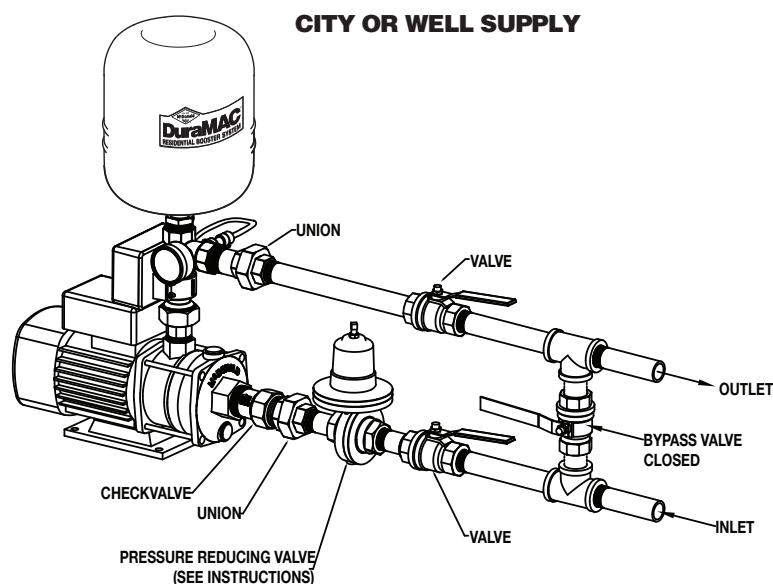


## Sizing Chart

Total static pressure **DuraMAC™** pump

Incoming Pressure (PSI)	17040C035PC2 <b>+40 PSI</b>	17062C035PC2 <b>+62 PSI</b>	17078C035PC2 <b>+78 PSI</b>
60		<b>NOT RECOMMENDED</b>	
55			
50	90		
45	85		
40	80		
35	75		
30	70		
25	65	87	
20	60	82	
15	55	77	93
10	50	72	88

## 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 system pressure to determine total system pressure when boosted. Note: Many plumbing codes do not recommend system pressure exceeding 80 PSI. Refer to local plumbing codes for maximum boosted pressure.

### Example:

Incoming system pressure before boost = 30 PSI

$$\begin{array}{rcl} \underline{30} & + & \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\ \text{Incoming} & & \text{Total Pump} \\ \text{Pressure} & & \text{Pressure} \end{array} \quad \begin{array}{rcl} & & \text{Total Pressure} \\ & & \text{After Boost} \end{array}$$

\*Not Recommended to Exceed 80 PSI

### Models Available: Boost

17040C035PC2 +40  
17062C035PC2 +62  
17078C035PC2 +78

$$\begin{array}{rcl} \underline{30} & + & \underline{40} = \underline{70} \\ \text{Incoming} & & \text{Total Pump} \\ \text{Pressure} & & \text{Pressure} \end{array} \quad \begin{array}{rcl} & & \text{Total Pressure} \\ & & \text{After Boost} \end{array}$$

Based on this example, the recommended model for this application is the 17040C035PC2.

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