

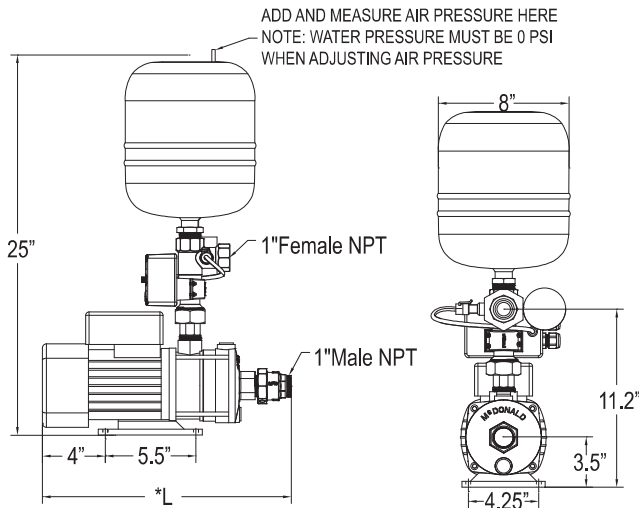
# SUBMITTAL DATA SHEET

## DuraMAC™ Booster Pumps Residential | Light Commercial | Commercial **DuraMAC™ - Residential Booster**

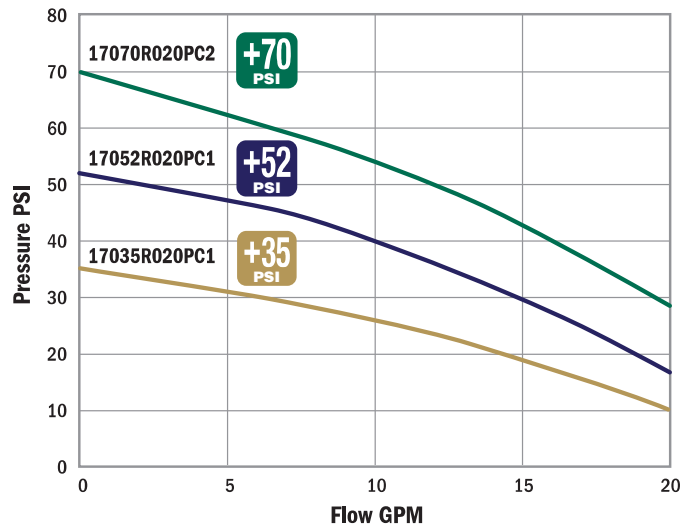


See Pumps & Accessories  
Price List for Limited  
Warranty details.

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.



\*See chart below



### 20 Gallon/Minute (GPM) Max

DuraMAC™ Model	Pump Boost	Amps	Length "L"	Voltage	Power	Pressure Reducing Valve recommended for installation with incoming pressure greater than:
17035R020PC1	35 PSI	5.5	15.26"	120 - 60 Hz	1/2 HP	45 PSI
17052R020PC1	52 PSI	7.0	15.97"	120 - 60 Hz	3/4 HP	28 PSI
17070R020PC2	70 PSI	4.0	16.68"	230 - 60 Hz	1 HP	10 PSI (For use with holding tank)

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 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

**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 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**

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:**

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### 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

<b>30</b>	+		=		
Household Pressure		Total Pump Pressure		Total Pressure After Boost	

\*Not Recommended  
to Exceed 80 PSI

#### Models Available: Boost

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

<b>30</b>	+	<b>35</b>	=	<b>65</b>	
Household Pressure		Total Pump Pressure		Total Pressure After 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

Total static pressure DuraMAC™ pump

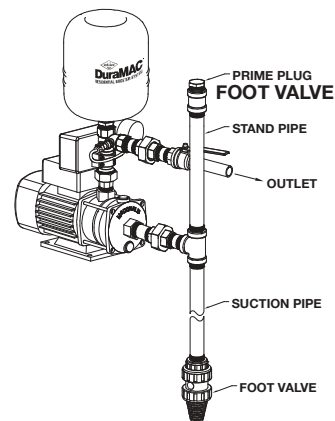
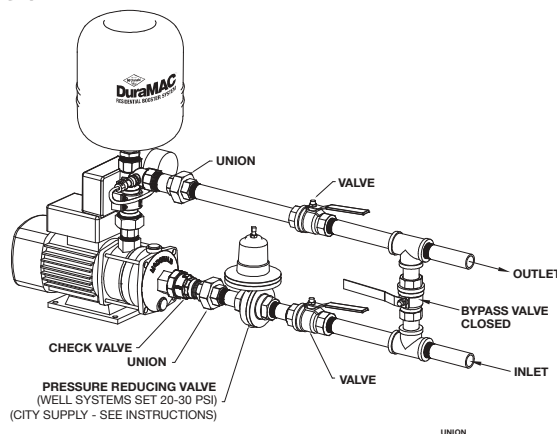
Incoming Pressure (PSI)	17035R020PC1 <b>+35</b>	17052R020PC1 <b>+52</b>	17070R020PC2 <b>+70</b>
60			
55	90		
50	85	PRIME PLUG	
45	80		
40	75	STAND PIPE	
35	70	87	
30	65	82	
25	60	77	
20	55	72	90
15	50	67	85
10	45	62	80

SUCTION PIPE

### 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



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