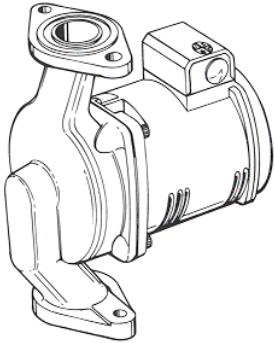


|                                                                                   |                                                                                                   |                                              |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>JOB:</b><br><br><br><b>UNIT TAG:</b><br><b>ENGINEER:</b><br><b>CONTRACTOR:</b> | <b>REPRESENTATIVE:</b><br><br><br><b>ORDER NO.</b><br><b>SUBMITTED BY:</b><br><b>APPROVED BY:</b> | <b>DATE:</b><br><b>DATE:</b><br><b>DATE:</b> |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------|



# SERIES PL™

## Permanently Lubricated Iron & Lead-Free<sup>†</sup> Bronze Booster Pumps

### DESCRIPTION

The Series PL™ close coupled booster pumps are specifically designed for quiet operation in hydronic, radiant and geothermal heating and cooling systems. These inline permanently lubricated pumps are available in cast iron or lead-free<sup>†</sup> bronze body construction.

### OPERATING DATA

Maximum working Pressure: 150 psi (10 Bar)  
Maximum Operating Temperature: 225°F (107°C)

<sup>†</sup> Contains less than 0.25% Lead content by weight on wetted surfaces.

### CONSTRUCTION MATERIALS

Booster Body: Cast Iron or Lead-Free<sup>†</sup> Bronze  
Face Plate: Stainless Steel  
Impeller: 30% Glass Filled Noryl®  
(PL-55 & PL-130): Glass Filled PPS  
Shaft: Carbon Steel  
(PL-55 & PL-130): Stainless Steel  
Shaft Sleeve: Stainless Steel  
(PL-55 & PL-130): None  
Seal: Mechanical, Carbon on Silicon Carbide  
Motor Bearings: Sealed Precision Steel Ball Bearing  
Permanently Lubricated  
Motor Type: ODP  
Elastomers: EPDM

### SCHEDULE

| CAST IRON       |                |      | LEAD-FREE <sup>†</sup> BRONZE |                |      | STANDARD 50 CYCLE SINGLE PHASE<br>MOTOR CHARACTERISTICS |         |           |      | TAGGING INFORMATION |
|-----------------|----------------|------|-------------------------------|----------------|------|---------------------------------------------------------|---------|-----------|------|---------------------|
| MODEL<br>NUMBER | PART<br>NUMBER | QTY. | MODEL<br>NUMBER               | PART<br>NUMBER | QTY. | HP                                                      | VOLTAGE | F.L. AMPS | RPM  |                     |
| PL-30           | 1BL020         |      | PL-30B                        | 1BL022         |      | 1/12                                                    | 220     | 0.7       | 2500 |                     |
| PL-36           | 1BL021         |      | PL-36B                        | 1BL023         |      | 1/6                                                     | 220     | 1.1       | 2900 |                     |
| PL-45           | 1BL024         |      | PL-45B                        | 1BL026         |      | 1/6                                                     | 220     | 1.1       | 2900 |                     |
| PL-50           | 1BL025         |      | PL-50B                        | 1BL027         |      | 1/6                                                     | 220     | 1.1       | 2900 |                     |

**Note: Where potable water is pumped, use a lead-free<sup>†</sup> bronze booster.**

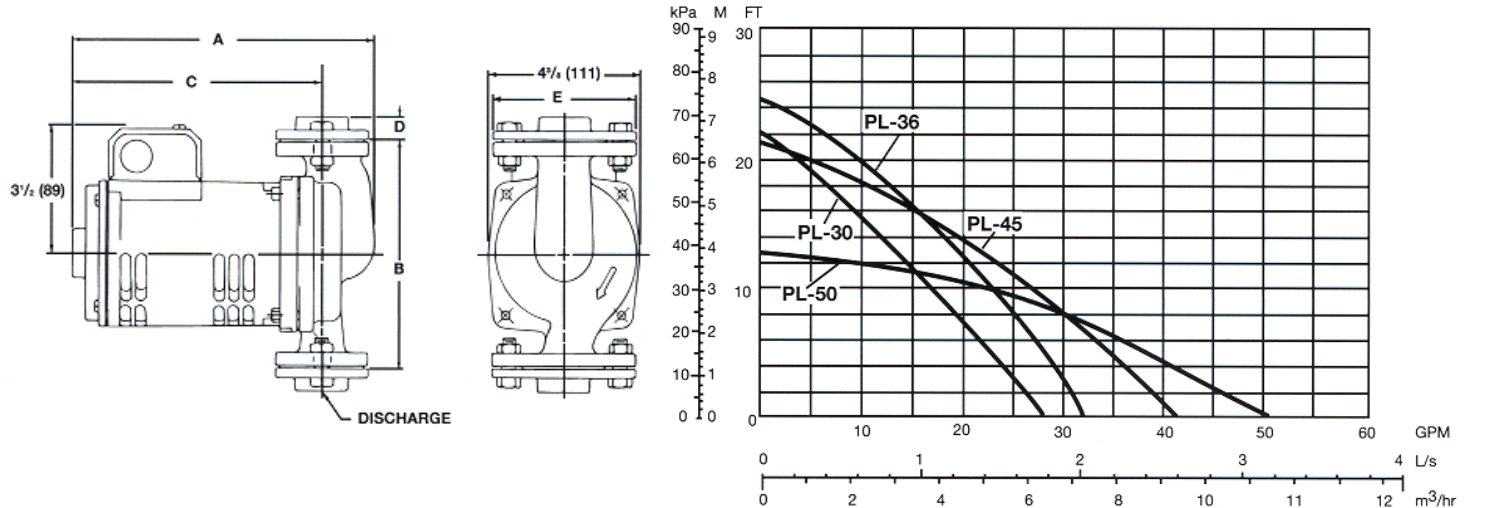
PL boosters equipped with a drip-proof motor are recommended for indoor use only.

DIMENSIONS AND WEIGHTS

| MODEL NO.       | FLANGE SIZE INCHES* | MOTOR HP | DIMENSIONS - INCHES (mm) |             |             |            |              | APPROXIMATE SHIPPING WT. LBS. (KG) |
|-----------------|---------------------|----------|--------------------------|-------------|-------------|------------|--------------|------------------------------------|
|                 |                     |          | A                        | B           | C           | D          | E            |                                    |
| PL-30           | 3/4                 | 1/12     | 8 5/8 (219)              | 6 3/8 (162) | 7 1/8 (181) | 9/16 (14)  | 4 3/16 (106) | 11.6 (5.3)                         |
|                 | 1                   |          |                          |             |             | 3/4 (19)   |              |                                    |
|                 | 1-1/4               |          |                          |             |             | 3/4 (19)   |              |                                    |
|                 | 1-1/2               |          |                          |             |             | 15/16 (24) |              |                                    |
| PL-36           | 3/4                 | 1/6      | 8 5/8 (219)              | 6 3/8 (162) | 7 1/8 (181) | 9/16 (14)  | 4 3/16 (106) | 13.1 (6.0)                         |
|                 | 1                   |          |                          |             |             | 3/4 (19)   |              |                                    |
|                 | 1-1/4               |          |                          |             |             | 3/4 (19)   |              |                                    |
|                 | 1-1/2               |          |                          |             |             | 15/16 (24) |              |                                    |
| PL-45 and PL-50 | 1                   | 1/6      | 9 1/8 (232)              | 8 1/2 (216) | 7 1/4 (184) | 5/8 (16)   | 4 5/8 (117)  | 14.5 (6.6)                         |
|                 | 1-1/4               |          |                          |             |             | 3/4 (19)   |              |                                    |
|                 | 1-1/2               |          |                          |             |             | 3/4 (19)   |              |                                    |

Dimensions are approximate and subject to change. Contact factory for certified dimensions.  
\*Companion flanges are available in NPT or BSP threaded connections.

50 HZ PERFORMANCE CHARACTERISTIC CURVES



TYPICAL SPECIFICATIONS

The contractor shall furnish and install inline pumps as illustrated on the plans and in accordance with the following specifications:  
1. The pumps shall be of the horizontal, permanently lubricated type, specifically designed and guaranteed for quiet operation.  
2. The pumps shall have a steel shaft supported by permanently lubricated, sealed precision ball bearings. The pumps are to be equipped with a water-tight seal to prevent leakage. Mechanical seal faces to be carbon on silicon carbide.

The motor shall be non-overloading at any point on the pump performance curve.  
3. The motor shall be of the drip-proof, sealed precision ball-bearing, quiet-operating construction. The permanent split-capacitor motor shall be equipped with thermal overload protection.  
4. Pumps to be suitable for 225°F (107°C) operating temperature at 150 psig (10 bar) working pressure.  
The pumps shall be Xylem Bell & Gossett Model No. PL-\_\_\_\_\_ with a capacity of \_\_\_\_\_ GPM at \_\_\_\_\_ feet of head.

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