

xylem
Let's Solve Water

TECHNICAL BROCHURE
BRESIBOOST R4



ResiBoost

COMPLETE PACKAGED RESIDENTIAL CONSTANT PRESSURE
BOOSTING SYSTEM, FOR THE WAY YOU LIVE

FEATURES

Powered for Continuous Operation: All ratings are within the working limits of the motor as recommended by the motor manufacturer. Pump can be operated continuously without damage to the motor.

VFD: Built-in protection against various system and electrical faults. Comes with internal transducer with digital indicator, additional parts not necessary. Pre-wired to e-HM pump.

Energy Savings: Precise speed control to operate pump for best energy efficiency.

Ease of installation: Complete system with pump, motor and controller assembled. Tank included separate from assembly for shipping. Plug and Play compact system.

Built-in Check Valve: Completely assembled ResiBoost includes a uniquely designed fitting including a spring loaded check valve.

Built-in Memory: Stored data - operating hours, number of starts, connection to the power supply, faults.

Electrical Protection: Protects against over-current, incorrect power supply, and short circuit.

Display: Control with LCD display and simple push button settings.

Stainless Steel Pump: e-HM series stainless steel pump with small footprint designed for longer life.

Offerings: Six SKU's to cover all residential boosting applications up to 35 GPM.

| Model | Pump Designation | Max GPM | Stages | Output Phase | Output Voltage | Weight |
|------------|------------------|---------|--------|--------------|----------------|--------|
| 13159RB115 | 13 GPM AT 60 PSI | 22 | 5 | 1 | 115 | 30 |
| 2294RB115 | 22 GPM AT 38 PSI | 40 | 3 | | | |
| 13120RB230 | 13 GPM AT 48 PSI | 22 | 4 | | | |
| 22125RB230 | 22 GPM AT 50 PSI | 40 | 4 | 3 | 230 | |
| 13150RB3 | 13 GPM AT 65 PSI | 22 | 5 | | | |
| 22157RB3 | 22 GPM AT 68 PSI | 40 | 5 | | | |

INCLUDED IN KIT

| Kit | Pump | Controller | Union with Check Valve | Tank |
|------------|----------------|------------|------------------------|------|
| 13159RB115 | 3HM05N07M6BQQE | RB111512 | 15K112 | V2L |
| 2294RB115 | 5HM03N07M6BQQE | | | |
| 13120RB230 | 3HM04N05M6FQQE | RB12309 | | |
| 22125RB230 | 5HM04N11M6FQQE | | | |
| 13150RB3 | 3HM05N07T6PQQE | RB32309 | | |
| 22157RB3 | 5HM05N15T6PQQE | | | |

NUMBER CODE

13 159 RB 115

Output Voltage =
115 (1 PH 115V),
230 (1 PH 230V),
3 (3 PH 230V)

Series = RB

Pump Designation Selection =
94, 120, 125, 150, 157, 159

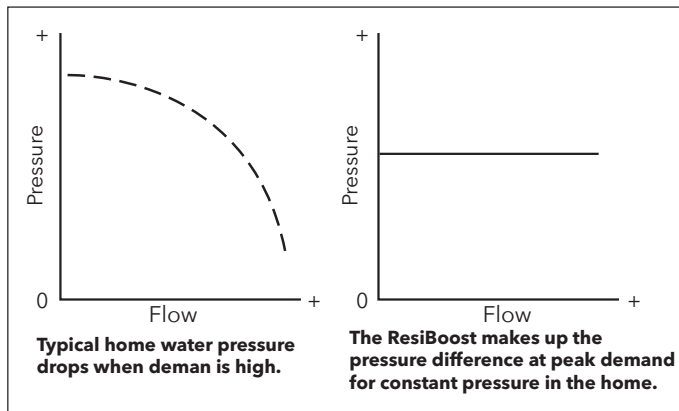
GPM at BEP = 13, 22

Order Online: www.PumpCatalog.com

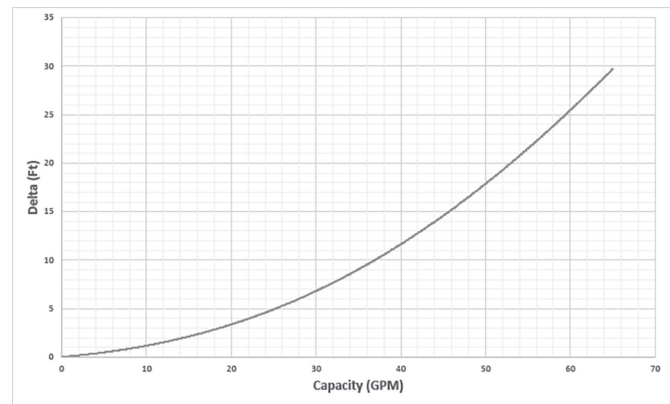


THE RESIBOOST ADVANTAGE

The ResiBoost constant pressure system provides an economical solution for municipal water users that suffer from low pressure. In addition the ResiBoost constant pressure system can also be used for applications requiring repressurizing water from a storage tank. As your household water needs change, our drive will change the speed of the motor to accommodate the need.



LOSS CURVE



Note: Above curve reflects friction loss of the controller as water passes through the controller.

RESIBOOST CONTROLLER



FEATURES

Input Power: Single Phase 115 and 230 V

Output Power: Single Phase 115 and 230 V,
3 phase 230 V

Programming: Pre-programmed

Input Controls: HMI with push button control

Signal Lights: Red LED

Protection Against: No Water, Motor Over Current,
Open Lead, Low System Pressure, Over Heating,
Short Circuit, Over Voltage, Under Voltage

Temperature Rating: 32° - 122°F

Approvals: cCSA_{US}, NSF

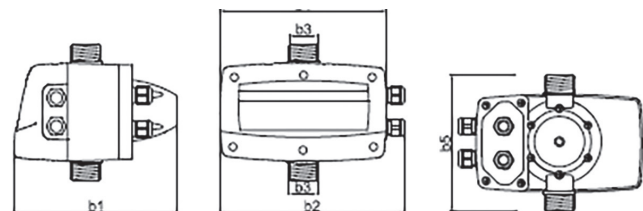
Enclosure: Type 3

Power Lead: 230V plug (NEMA 6-20) on 230 V, 115 V
plug (NEMA 5-15) on 115 V selections

| ResiBoost Controller Part # | Input Voltage | Output Voltage | Max Amps | Weight lbs |
|-----------------------------|---------------|----------------|----------|------------|
| RB111512 | 1/115 | 1/115 | 12 | 6.4 |
| RB12309 | 1/230 | 1/230 | 9 | |
| RB32309 | 1/230 | 3/230 | 9 | |

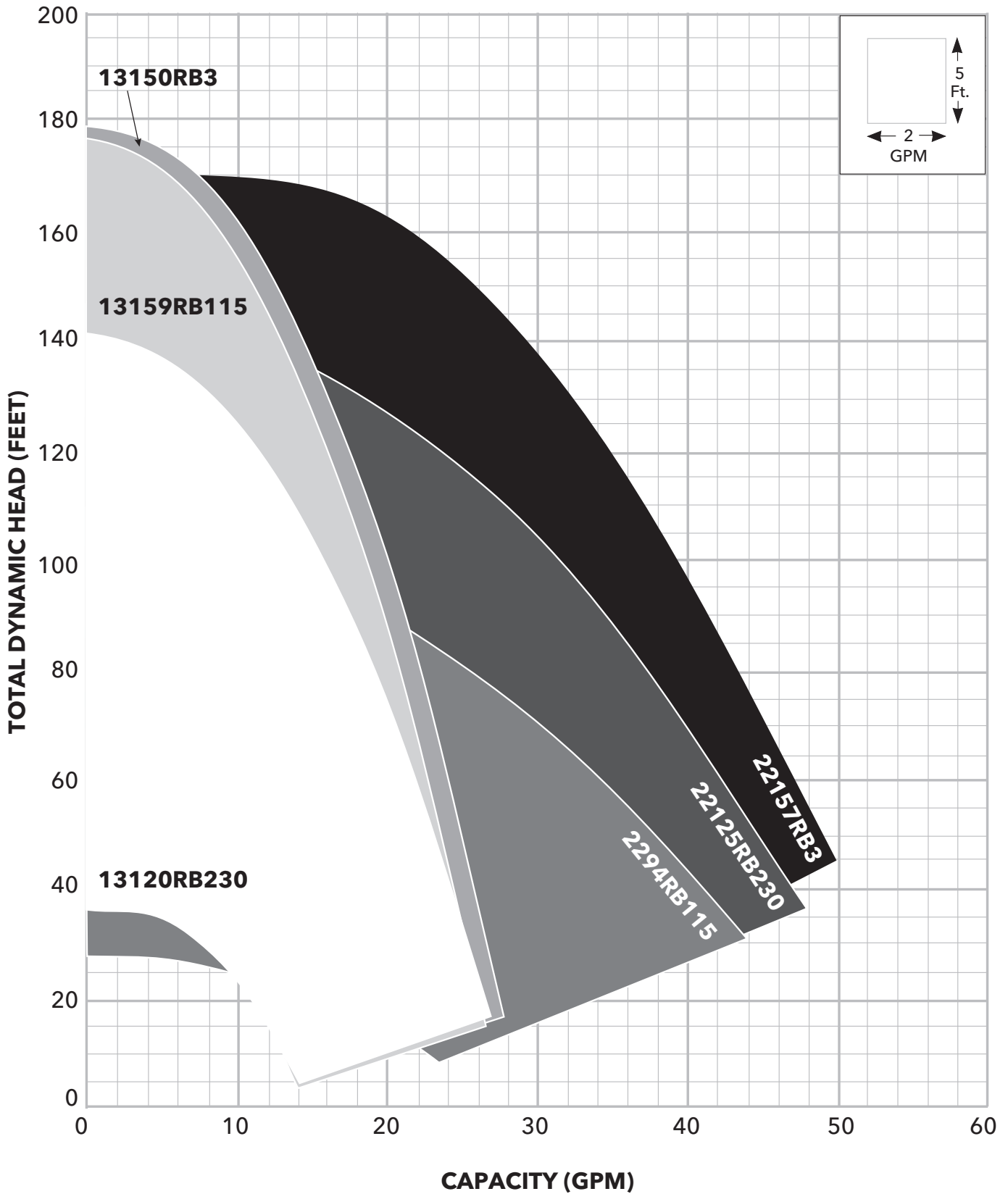
* ResiBoost controller cannot be used on all surface motors. Check IOM for correct applications.

DIMENSIONS

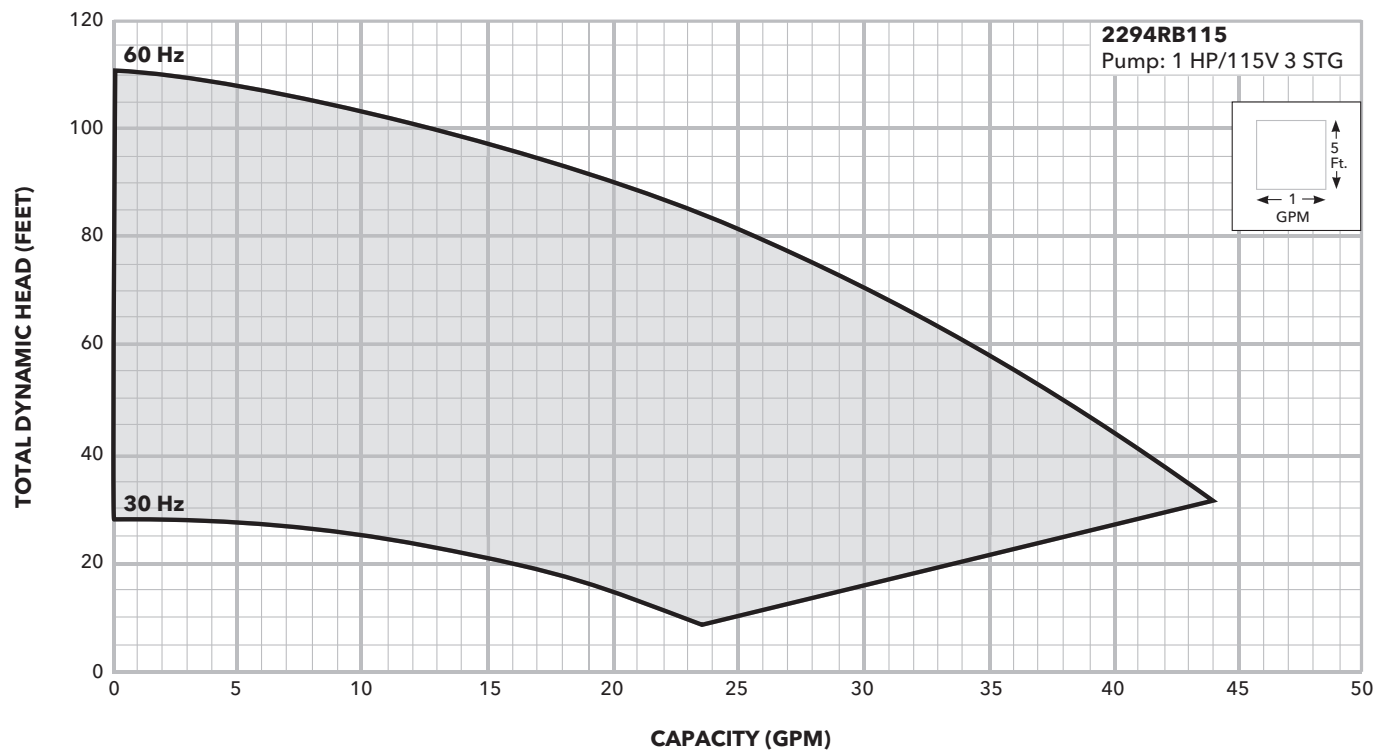
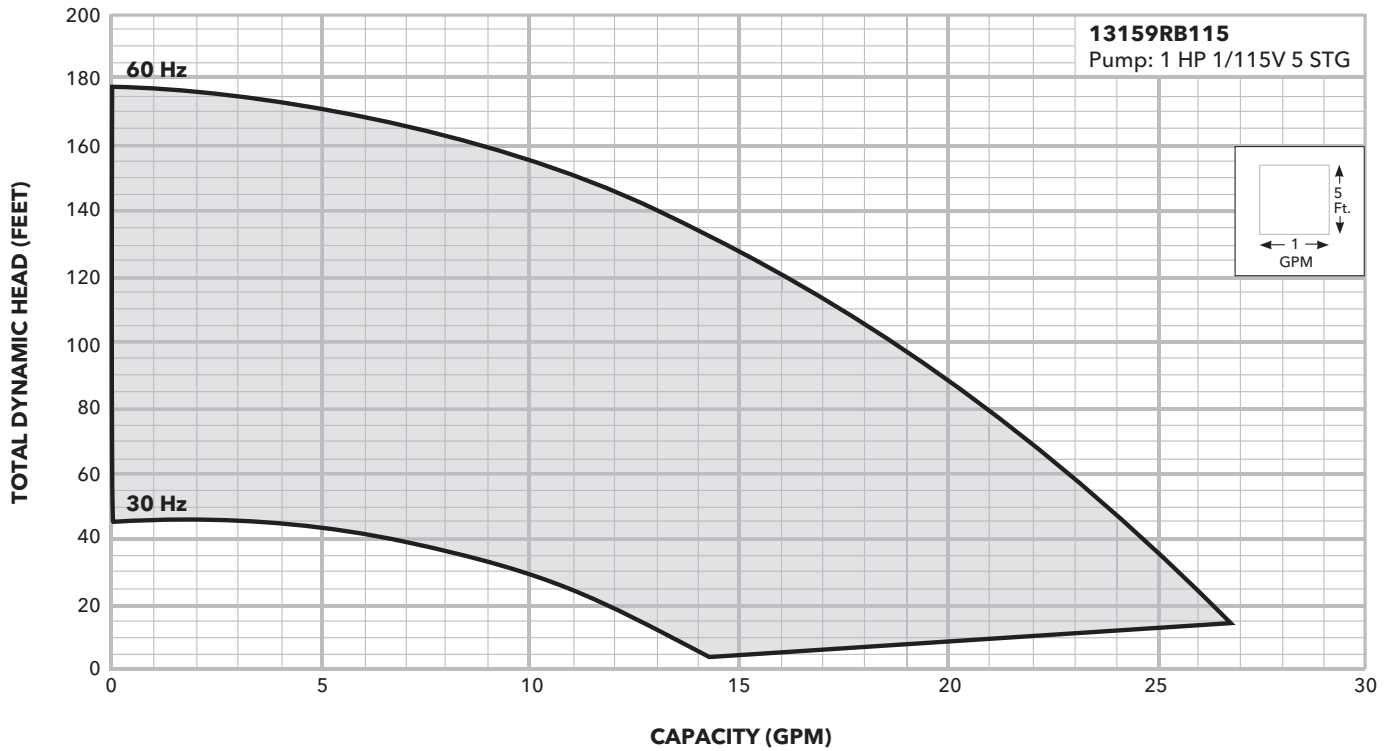


| Model | lbs | b1 [in] | b2 [in] | b3 [in] | b4 [in] | b5 [in] |
|-------|-----|---------|---------|----------|---------|---------|
| 1Ø | 6.4 | 9.1 | 10.4 | 1¼" MNPT | 9.4 | 7.7 |
| 3Ø | | | | | | |

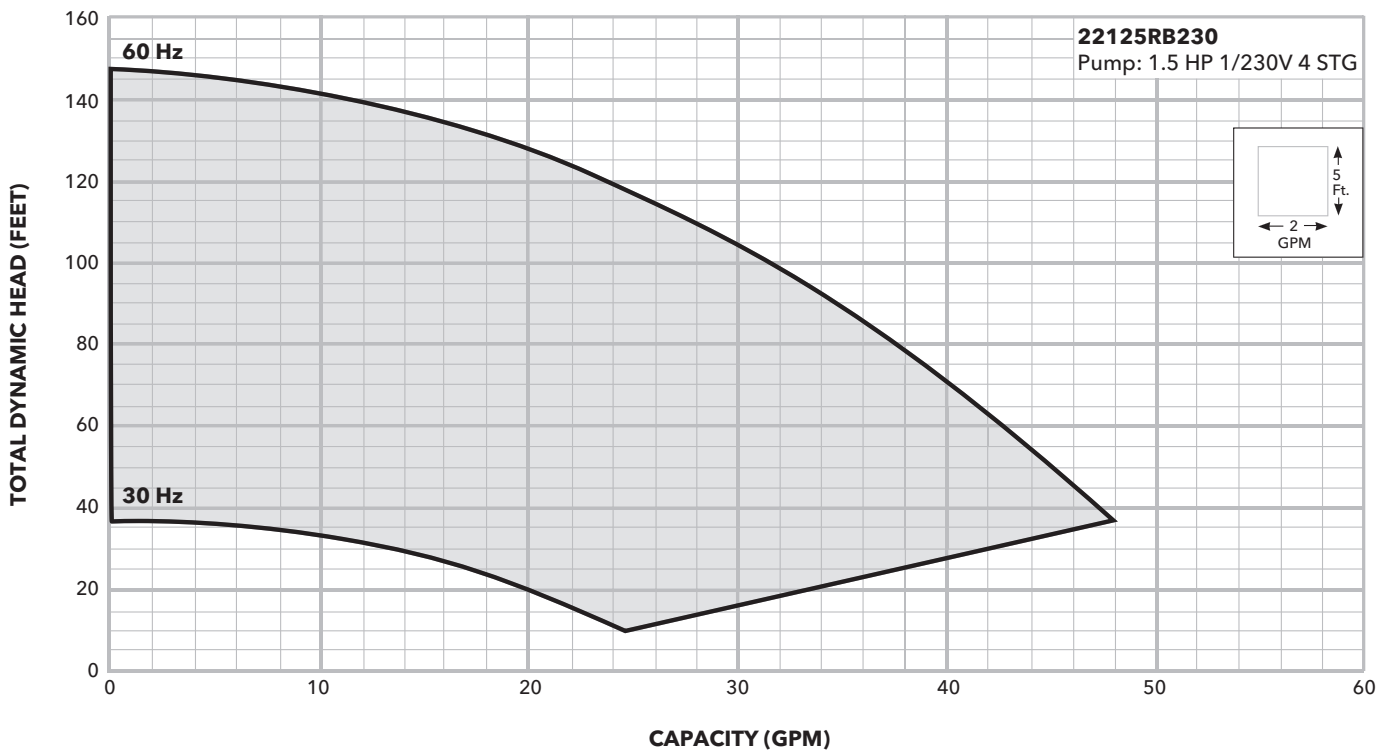
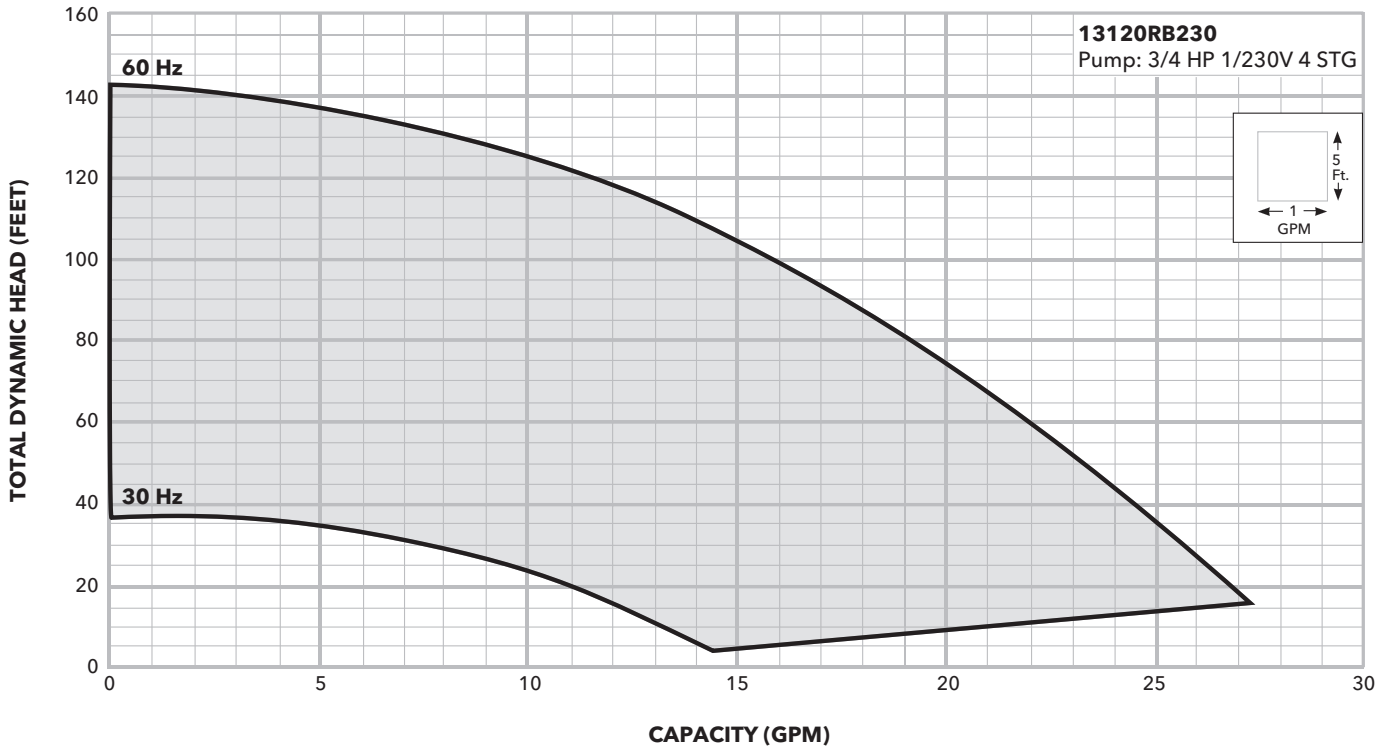
FAMILY CURVE



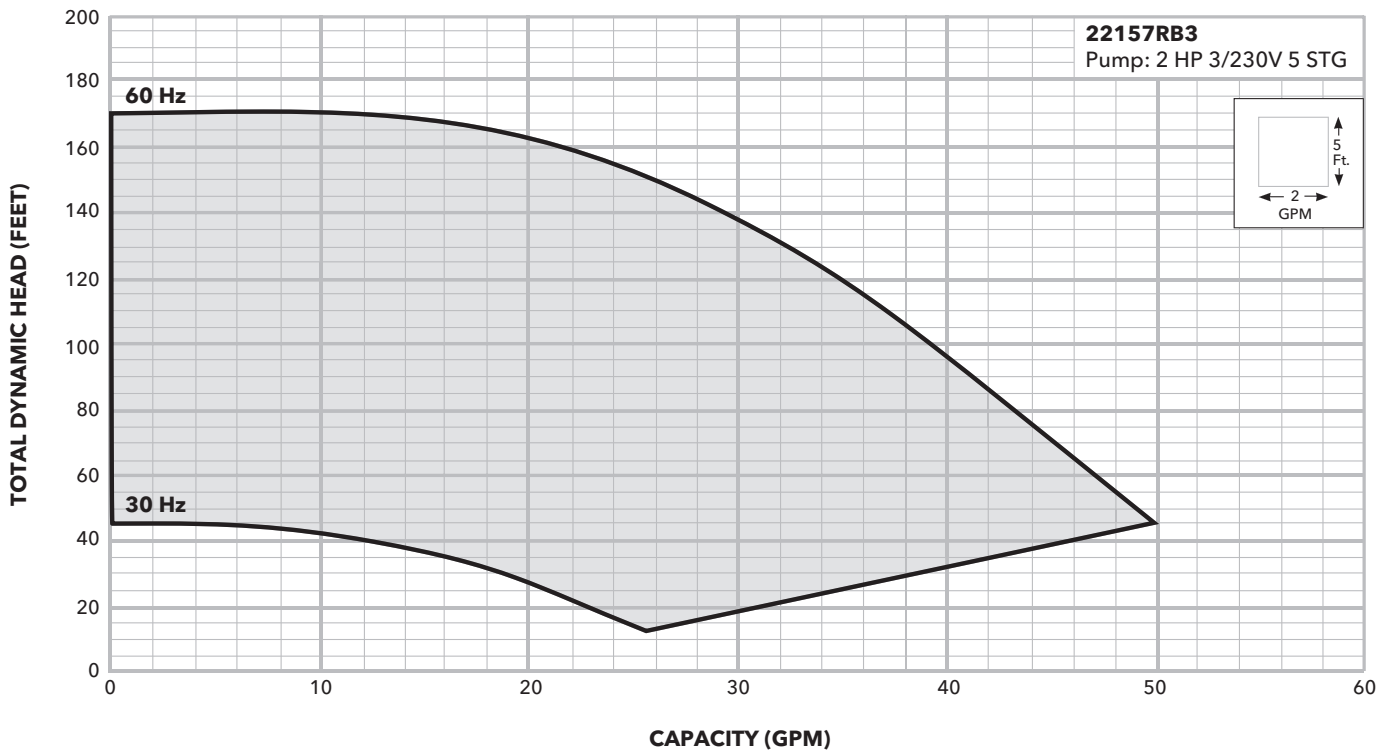
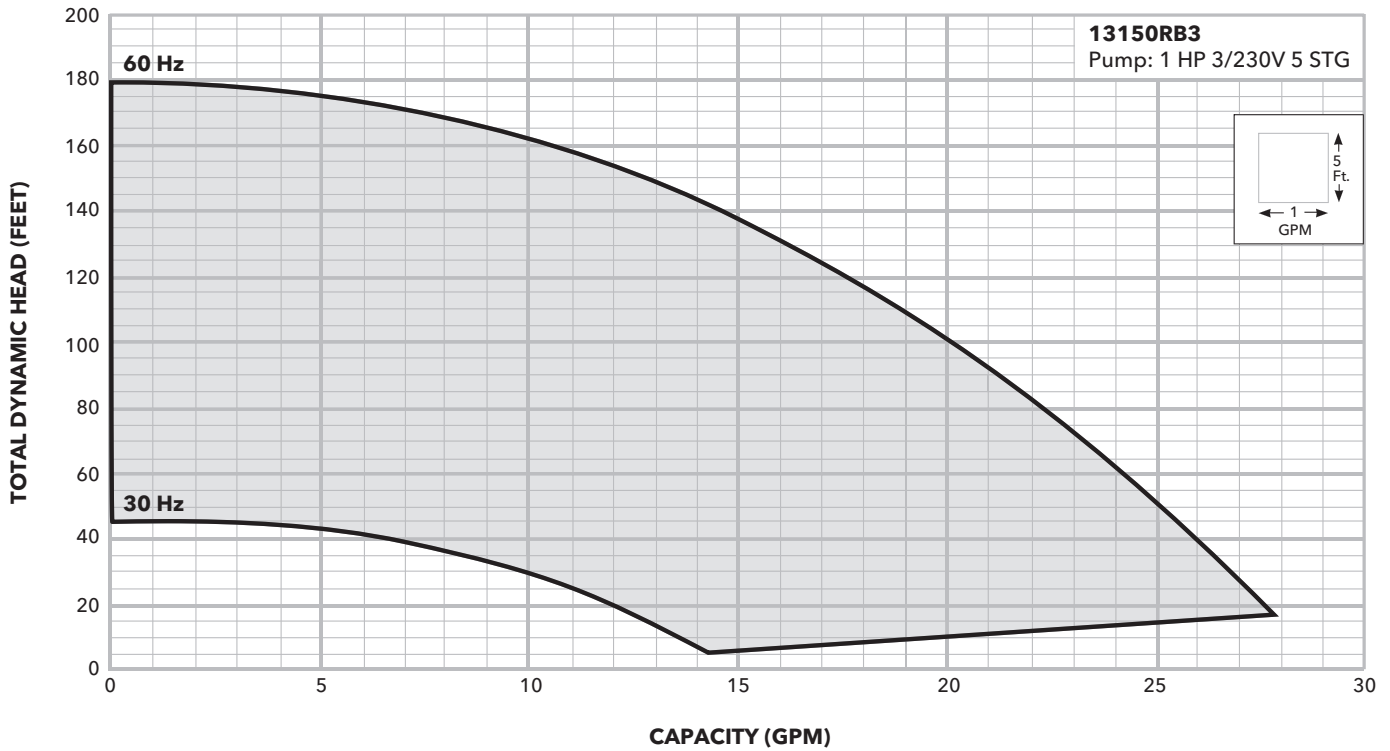
PERFORMANCE CURVES



PERFORMANCE CURVES



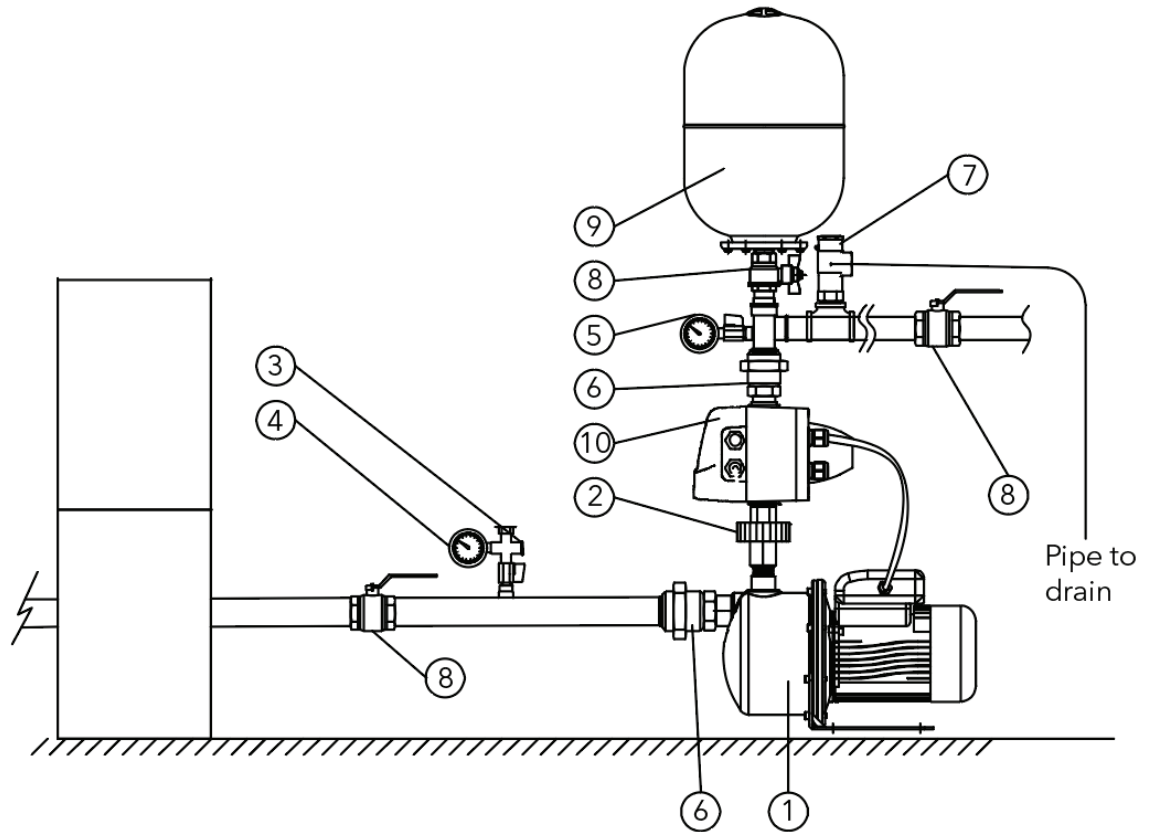
PERFORMANCE CURVES



NOTE: For complete pump information, please reference the BeHM R11 on www.goulds.com.

TYPICAL MUNICIPAL WATER INSTALLATION

| No. | Component | Included in the kit |
|-----|--------------------------|---------------------|
| 1 | Electric pump | ✓ |
| 2 | Union with check valve | ✓ |
| 3 | Priming port | |
| 4 | Vacuum pressure gauge | |
| 5 | Discharge pressure gauge | |
| 6 | Union | |
| 7 | Pressure relief valve | |
| 8 | Gate valve | |
| 9 | Diaphragm tank | ✓ |
| 10 | ResiBoost controller | ✓ |



xylem
Let's Solve Water

Xylem Inc.
2881 East Bayard Street Ext., Suite A
Seneca Falls, NY 13148
Phone: (866) 325-4210 • Fax: (888) 322-5877
www.xylem.com/goulds

Goulds is a registered trademark of Goulds Pumps, Inc. and is used under license.
© 2021 Xylem Inc. BRESIBOOST R4 July 2021

Order Online: www.PumpCatalog.com