

VARIABLE SPEED
PACKAGED
BOOSTERS.
PLAIN AND SIMPLE.



AquaBoost™ Advanced Packaged Systems



BUILT WITH THE QUALITY YOU'VE COME TO EXPECT FROM GOULDS WATER TECHNOLOGY

AQUABOOST ADVANCED PACKAGED SYSTEMS

The AquaBoost Advanced Packaged Systems are designed to be simple from beginning to end. They are simple to specify, simple to install and simple to set up. Best of all, with Xylem's single-source responsibility and technical expertise, it's simple to work with us. The AquaBoost Advanced Packaged Systems are a pre-engineered, factory assembled line of packaged booster systems that provide hydraulic capabilities from 20 GPM to 220 GPM and boosts up to 55 psig. The AquaBoost Advanced Packaged Systems give you an intelligent pump system that provides maximum value, proven reliability, superior energy efficiency and better system protection. In addition, it provides consistent performance even with your changing system demands. The AquaBoost Advanced Packaged Systems provide pressure boosting for a variety of applications including irrigation buildings, commercial plants, municipal and rural water districts.

AQUAVAR IPC VARIABLE SPEED CONTROLLER

- Easier start-up and programming with Start-Up Genie
- Modbus® RTU, Metasys N2, FLN, and BACnet standard
- Hand on, Off, and Auto-On buttons available for easy pump operation at the keypad
 - No toggling between local and remote operation
- System redundancy with multi-master control in case of drive failure
- System protection from overvoltage, undervoltage, blocked suction, cavitation, NPSHa, phase loss, short circuit, transducer failure and motor current overload
- Pump run out and dry running protection

For complete system capabilities and detailed specifications go to www.xylem.com/goulds

FEATURES

- Each system is fabricated with NPE 316L stainless steel centrifugal pumps
- All systems are UL listed as packaged pumping systems
- Compact Footprint – Ideal for retrofit installations and new construction

SPECIFICATIONS

- 208-230V, 380V, 460V, 575V models available
- Simplex and duplex
- Standard efficiency TEFC 1PH motors / Premium efficiency TEFC 3PH motors
- Liquid temperatures up to 105° F
- Ambient temperatures up to 104° F
- Flow up to 220 GPM. Maximum boost of 55 psig
- Programmable lead/lag alternation (duplex)
- Programmable system pressure starting
- Fault detection and alarm notification
- Motor run relay
- Isolation valves (duplex systems)
- Stainless steel manifold
- Isolation valves (duplex systems)
- All AquaBoost Advanced Packaged Systems are ANSI/NSF-61/NSF-61 Annex G and 372



AquaBoost Advanced Packaged Systems

Variable Speed Simplex



Specifically designed as a compact, easy to install and maintain package for applications where sufficient main pressure is not available or elevation is a problem. Typical installations include residences, apartment buildings, condominiums and light commercial applications. The AquaBoost Advanced is available in both one and two pump packages. Simplex capacities range from 20 to 110 GPM at a boost of up to 55 psig. Duplex capacities are up to 220 GPM.

Variable Speed Duplex



AquaBoost Advanced Packaged Systems

Pumps are close coupled with stainless steel casing and internals. All piping on the package is non-ferrous for use with potable water.

Pump motors are TEFC from 1 HP through 5 HP. The AquaBoost Advanced is factory assembled, wired and tested. Electrical panel is UL listed, NEMA 1 enclosure with voltages ranging from 208/1/60, 230/1/60, 208/3/60, 230/3/60, 380/3/50 and 575/3/60. The pump(s) will stop during periods of low demand and restart upon a drop in system pressure.

Duplex models provide automatic alternation to permit even pump usage, and units can be sized to act as 100% stand by or stage pumps based on demand. Lag pump will start automatically upon failure of lead pump and pump failure is indicated at the panel.

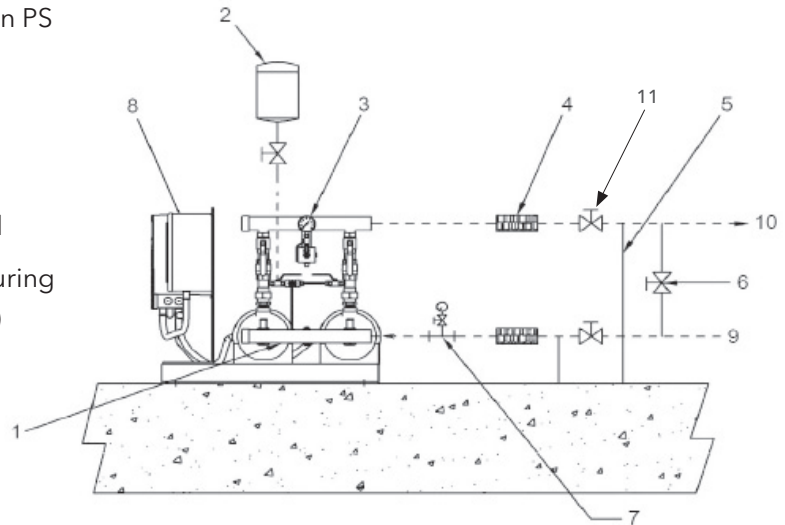
Options (shipped loose):

- Low Suction Pressure Cutout
- Storage Tank (shipped loose from factory)

AquaBoost Advanced Packaged Systems

Typical Field Piping (Variable Speed Duplex shown)

1. ¼ in. tap on the suction manifold for Low Suction PS
2. Optional tank
3. Discharge gauge
4. Vibration eliminator
5. Anchor the pipe securely if eliminators are used
6. If a bypass line is installed, keep valve closed during normal operation. (Do not install a check valve.)
7. Recommended suction gauge
8. Aquavar IPC Variable Speed Controller
9. City water
10. To system
11. Isolation valves are locally supplied for a complete recommended installation



Sizing Guide



Simplex AquaBoost Advanced Selection Chart

| PSI | 20 GPM | 30 GPM | 40 GPM | 50 GPM | 60 GPM | 70 GPM | 80 GPM | 90 GPM | 100 GPM | 110 GPM |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 20 | | | | | 1B20 | 1B20 | 1B30 | 1B30 | 1B30 | |
| 25 | | | 1A15 | 1B20 | 1B20 | 1B30 | 1B30 | 1B30 | 1B30 | 1B50 |
| 30 | 1A15 | 1A15 | 1A20 | 1B20 | 1B30 | 1B30 | 1B50 | 1B50 | 1B50 | 1B50 |
| 35 | 1A15 | 1A15 | 1A20 | 1B30 | 1B30 | 1B50 | 1B50 | 1B50 | 1B50 | |
| 40 | 1A15 | 1A20 | 1A30 | 1B50 | 1B30 | 1B50 | 1B50 | 1B50 | | |
| 45 | 1A20 | 1A20 | 1A30 | 1B50 | 1B50 | 1B50 | | | | |
| 50 | 1A20 | 1A30 | 1B50 | 1B50 | | | | | | |
| 55 | 1A20 | 1A30 | | | | | | | | |

**Consult factory or visit
www.xylem.com/goulds
for other booster models**

*Above selections provide non-overloading motors across entire pump curve.

Duplex AquaBoost Advanced Selection Chart

| PSI | 40 GPM | 60 GPM | 80 GPM | 100 GPM | 120 GPM | 140 GPM | 160 GPM | 180 GPM | 200 GPM | 220 GPM |
|-----|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 20 | | | | | 2B20 | 2B20 | 2B30 | 2B30 | 2B30 | |
| 25 | | | 2A15 | 2B20 | 2B20 | 2B30 | 2B30 | 2B30 | 2B30 | 2B50 |
| 30 | 2A15 | 2A15 | 2A20 | 2B20 | 2B30 | 2B30 | 2B50 | 2B50 | 2B50 | 2B50 |
| 35 | 2A15 | 2A20 | 2A30 | 2B30 | 2B30 | 2B50 | 2B50 | 2B50 | 2B50 | |
| 40 | 2A20 | 2A20 | 2A30 | 2B50 | 2B30 | 2B50 | 2B50 | 2B50 | | |
| 45 | 2A20 | 2A20 | 2B50 | 2B50 | 2B50 | 2B50 | | | | |
| 50 | 2A20 | 2A30 | 2B50 | 2B50 | | | | | | |
| 55 | 2A20 | 2A30 | | | | | | | | |

**Consult factory or visit
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for other booster models**

* Above selections provide non-overloading motors across entire pump curve.
Selections are based on two pumps in parallel. Refer to NPE pump curves or consult factory for duty/standby operation.



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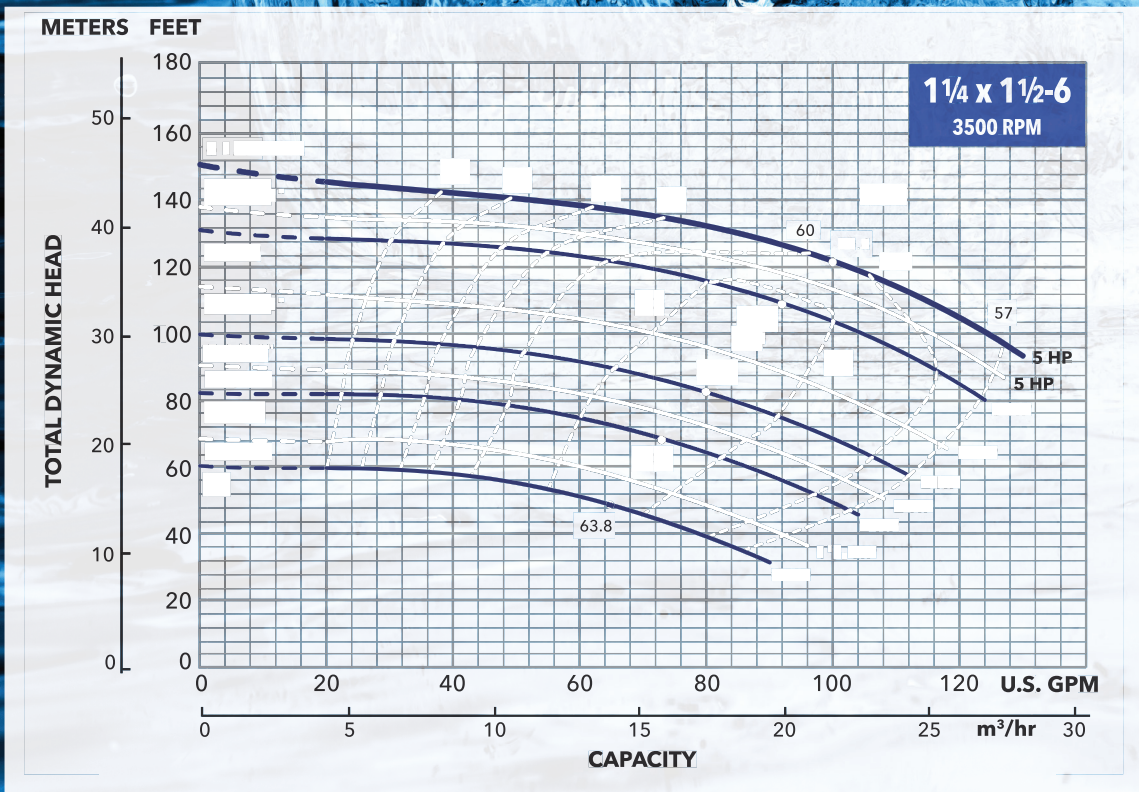
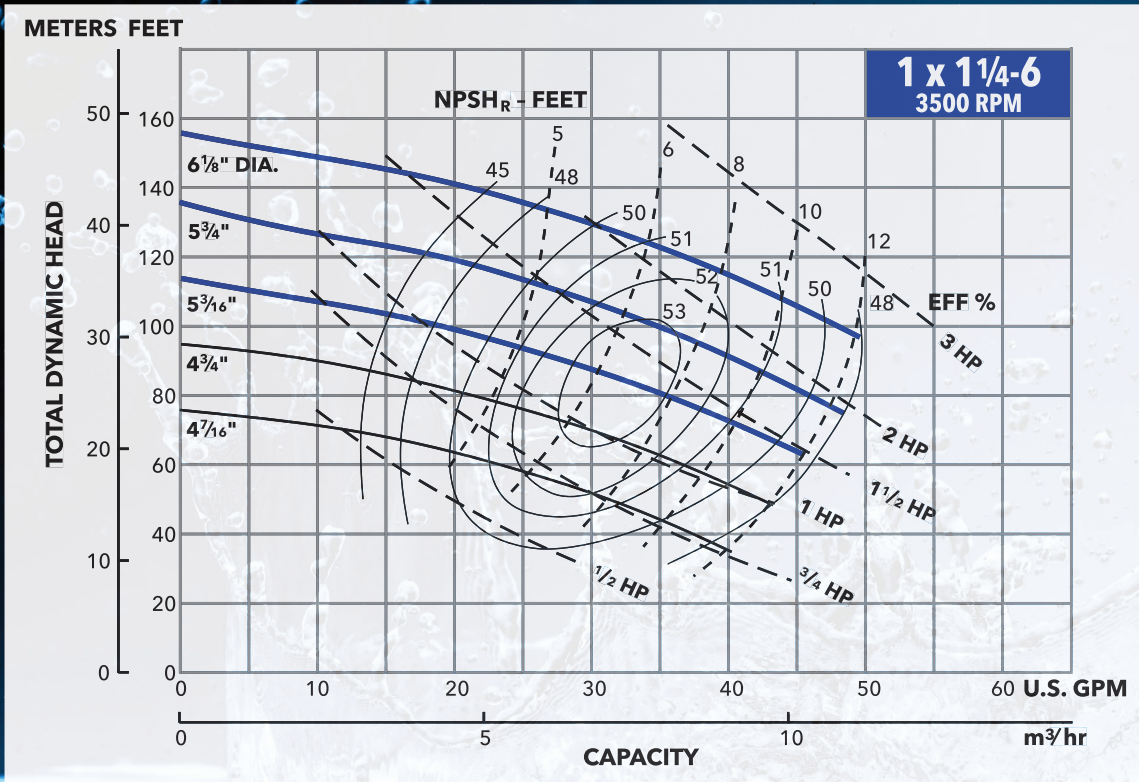
Dimensions and Weights

| Model | HP | Overall Dimensions and Weights | | System Connections | | | |
|--|-----|---|---|--------------------|--------|----------|----|
| | | SIMPLEX | DUPLEX | SIMPLEX | DUPLEX | | |
| 1A15 A, B, C, D & E 2A15 A, B, C, D & E | 1.5 | 22.75"L x 23.125"W x 29"H, 156.4 - 175.1 LBS | 35.25"L x 37"W x 31"H, 299.3 - 347.7 LBS | 1 - 1/2" | 2" | | |
| 1A20 A, B, C, D & E 2A20 A, B, C, D & E | 2 | 22.75"L x 23.125"W x 29"H, 156.4 - 173.7 LBS | 35.25"L x 37"W x 31"H, 299.3 - 340.8 LBS | | | | |
| 1A30 B, C & D | 3 | 22.75"L x 24.5"W x 29"H, 168.5 LBS | N/A | | | | |
| 1A30 A or 2A30 A | | 24.875"L x 24.5"W x 29"H, 218.0 LBS | 37.25"L x 37"W x 31"H, 390.6 LBS | | | | |
| 1A30 E | | 22.75"L x 23"W x 29"H, 172.6 LBS | N/A | | | | |
| 2A30 B, C, D & E | | N/A | 35.25"L x 37"W x 31"H, 323.5 - 327.6 LBS | | | | |
| 1B20 A, B, C, D & E 2B20 A, B, C, D & E | 2 | 22.75"L x 23.25"W x 29"H, 156.9 - 174.2 LBS | 35.25"L x 38"W x 36"H, 321.7 - 363.1 LBS | | | 1 - 1/2" | 2" |
| 1B30 B, C & D | 3 | 22.75"L x 24.5"W x 29"H, 169.0 LBS | N/A | | | | |
| 1B30 A | | 24.875"L x 24.5"W x 29"H, 218.5 LBS | N/A | | | | |
| 1B30 E | | 22.75"L x 23.5"W x 29"H, 173.1 LBS | N/A | | | | |
| 2B30 A, B, C, D & E | | N/A | 35.25"L x 38"W x 36"H, 345.9 - 413.0 LBS | | | | |
| 1B50 B, C & D or 2B50 B, C & D | 5 | 22.75"L x 27.25"W x 29"H, 172.3 - 176.4 LBS | 35.25"L x 42"W x 36"H, 352.5 - 367.5 LBS | | | | |
| 1B50 A or 2B50 A | | 24.875"L x 27.5"W x 29"H, 302.1 LBS | 37.25"L x 42"W x 36"H, 560.4 LBS | | | | |
| 1B50 E or 2B50 E | | 22.75"L x 25.75"W x 29"H, 176.4 LBS | 35.25"L x 41"W x 36"H, 356.5 LBS | | | | |

Stock Model Number

| AquaBoost Naming System | | | | |
|-------------------------|-------------|-----------|---------|---------------|
| Model Numbers | # of pumps | Hydraulic | HP | Voltage/Phase |
| AQA | 1 = simplex | A = 1ST | 15 = 1½ | A = 208/230/1 |
| | 2 = duplex | B = 2ST | 20 = 2 | B = 208/230/3 |
| | | | 30 = 3 | C = 380/3 |
| | | | 40 = 4 | D = 460/3 |
| | | | 50 = 5 | E = 575/3 |

AquaBoost Advanced Packaged Systems Pump Curves





Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com

Xylem Product Cybersecurity

Xylem values your system security and the availability of your critical services. For more information on Xylem cybersecurity practices or to contact the cybersecurity team please visit xylem.com/security.



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