

xylem



AQUABOOST® Advanced Packaged Booster Systems

Built with the quality you've come to
expect from Goulds Water Technology



 **GOULDS**
WATER TECHNOLOGY
xylem

Engineered for pressure. Built for reliability.

The AQUABOOST Advanced Packaged Booster System is a compact, easy-to-install, and low-maintenance solution designed for applications where main water pressure is insufficient or elevation presents a challenge. Ideal for residential, multi-family, and light commercial installations—including homes, apartment buildings, and condominiums—the system is available in both single (simplex) and dual (duplex) pump configurations.

Variable speed simplex



Variable speed simplex systems deliver flow rates from 20 to 110 GPM with pressure boosts up to 55 psig

Variable speed duplex



Variable speed duplex systems offer capacities up to 220 GPM

The AQUABOOST Advanced features close-coupled pumps with durable stainless-steel casings and internals, ensuring long-lasting performance and compatibility with potable water. All system piping is non-ferrous, supporting safe and efficient water delivery.

Each unit is factory-assembled, wired, and tested for dependable operation right out of the box. Pump motors are Totally Enclosed Fan Cooled (TEFC), available from 1 HP to 5 HP, offering quiet and efficient performance. The system automatically stops during low demand and restarts when pressure drops—ensuring efficient energy use and consistent water pressure.

Electrical panel:

- UL-listed electrical panel
- NEMA 1 enclosure
- Available voltages: 208/1/60, 230/1/60, 208/3/60, 230/3/60, 380/3/50, and 575/3/60

Options (shipped loose):

- Low suction pressure cutout
- Storage tank (shipped loose from factory)

Duplex system advantages:

- Automatic pump alternation for balanced wear
- Configurable for 100% standby or staged operation
- Lag pump activates automatically if lead pump fails
- Panel indicators alert users to pump failure

Simple to specify. Simple to install. Simple to operate.

AQUABOOST Advanced Packaged Systems are designed with simplicity in mind—from specification to installation to operation. These pre-engineered, factory-assembled booster systems deliver reliable performance with flow rates ranging from 20 to 220 GPM and pressure boosts up to 55 psig.

Backed by Xylem's single-source responsibility and technical expertise, working with us is just as simple. The AQUABOOST Advanced provides an intelligent pumping solution that offers maximum value, proven reliability, superior energy efficiency, and enhanced system protection. In addition, it provides consistent performance even with your changing system demands.

Whether you're boosting pressure for irrigation systems, commercial buildings, municipal infrastructure, or rural water districts, AQUABOOST Advanced delivers the dependable performance you need—every time!

AQUAVAR® IPC variable speed controller



- Easier start-up and programming with Start-Up Genie
- MODBUS® RTU, Metasys N2, FLN, and BACnet standard
- Hands on, Off, and Auto-on buttons are 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

AQUABOOST Advanced 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

Applications

The AQUABOOST Advanced Packaged System provides pressure boosting for a variety of applications including:

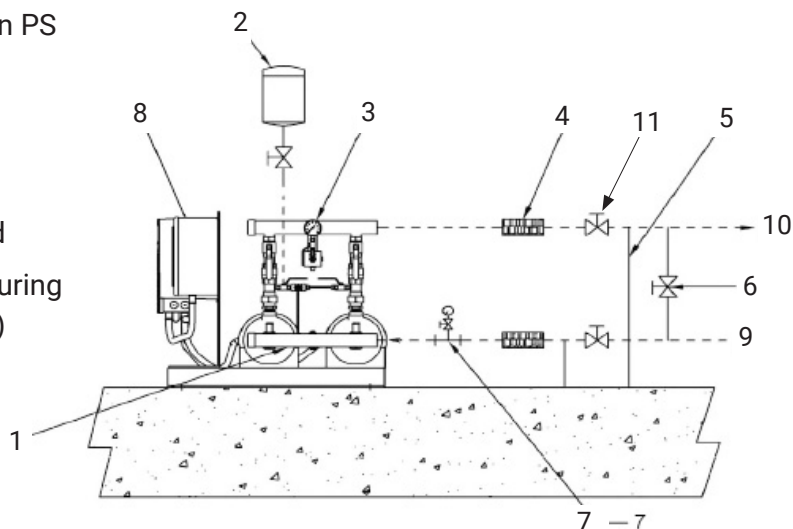
- Irrigation
- Buildings
- Commercial
- Plants
- Municipal
- Rural water districts



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	Ft. head	20 GPM	30 GPM	40 GPM	50 GPM	60 GPM	70 GPM	80 GPM	90 GPM	100 GPM	110 GPM
20	46					1B20	1B20	1B20	1B20	1B30	
25	58		1A15	1A15	1B20	1B20	1B20	1B20	1B30	1B30	
30	69	1A15	1A15	1A15	1B20	1B20	1B20	1B30	1B50	1B50	1B50
35	81	1A15	1A15	1A20	1B30	1B30	1B50	1B50	1B50	1B50	1B50
40	92	1A15	1A20	1A20	1B50	1B50	1B50	1B50	1B50	1B50	1B50
45	104	1A20	1A20	1A30	1B50	1B50	1B50	1B50	1B50		
50	116	1A20	1A30	1A30	1B50	1B50	1B50			Consult factory or visit www.xylem.com/goulds for other booster models	
55	127	1A30	1A30								

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

Duplex AQUABOOST Advanced selection chart

PSI	Ft. head	40 GPM	60 GPM	80 GPM	100 GPM	120 GPM	140 GPM	160 GPM	180 GPM	200 GPM	220 GPM
20	46					2B20	2B20	2B20	2B20	2B30	
25	58		2A15	2A15	2B20	2B20	2B20	2B20	2B30	2B30	
30	69	2A15	2A15	2A15	2B20	2B20	2B20	2B30	2B50	2B50	2B50
35	81	2A15	2A15	2A20	2B30	2B30	2B50	2B50	2B50	2B50	2B50
40	92	2A15	2A20	2A20	2B50	2B50	2B50	2B50	2B50	2B50	2B50
45	104	2A20	2A20	2A30	2B50	2B50	2B50	2B50	2B50		
50	116	2A20	2A30	2A30	2B50	2B50	2B50			Consult factory or visit www.xylem.com/goulds for other booster models	
55	127	2A30	2A30								

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.

Dimensions and weights

All dimensions are in inches (millimeters). Weights are in pounds (kilograms).

	Model	Phase	Voltage	Length in. (mm)	Width in. (mm)	Height in. (mm)	Weight lbs. (kg)	System connections
Simplex	1A15	All	All	23.13" (587.5)	22.75" (577.9)	29.00" (736.6)	175 (79)	1.5" FNPT
	1A20	All	All	23.13" (587.5)	22.75" (577.9)	29.00" (736.6)	175 (79)	1.5" FNPT
	1A30	1	230	24.50" (622.3)	24.78" (629.4)	29.00" (736.6)	218 (99)	1.5" FNPT
	1A30	3	230, 460	24.50" (622.3)	22.75" (577.9)	29.00" (736.6)	170 (77)	1.5" FNPT
	1A30	3	575	23.50" (596.9)	22.75" (577.9)	29.00" (736.6)	172 (78)	1.5" FNPT
	1B20	All	All	23.25" (590.6)	22.75" (577.9)	29.00" (736.6)	175 (79)	1.5" FNPT
	1B30	1	230	24.50" (622.3)	24.88" (632.0)	29.00" (736.6)	220 (100)	1.5" FNPT
	1B30	3	230, 460	24.50" (622.3)	22.75" (577.9)	29.00" (736.6)	170 (77)	1.5" FNPT
	1B30	3	575	23.25" (590.6)	22.75" (577.9)	29.00" (736.6)	173 (78)	1.5" FNPT
	1B50	1	230	27.50" (698.5)	24.88" (632.0)	29.00" (736.6)	302 (137)	1.5" FNPT
	1B50	3	230, 460	27.25" (692.2)	22.75" (577.9)	29.00" (736.6)	176 (80)	1.5" FNPT
	1B50	3	575	25.75" (654.1)	22.75" (577.9)	29.00" (736.6)	176 (80)	1.5" FNPT
Duplex	2A15	All	All	36.50" (927.1)	35.25" (895.4)	31.00" (787.4)	348 (158)	2" Clamp
	2A20	All	All	36.50" (927.1)	35.25" (895.4)	31.00" (787.4)	348 (158)	2" Clamp
	2A30	1	230	36.50" (927.1)	37.25" (946.2)	31.00" (787.4)	391 (177)	2" Clamp
	2A30	3	230, 460, 575	36.50" (927.1)	35.25" (895.4)	31.00" (787.4)	324 (147)	2" Clamp
	2B20	All	All	37.75" (958.9)	35.25" (895.4)	34.50" (876.3)	363 (165)	3" Clamp
	2B30	1	230	37.75" (958.9)	37.25" (946.2)	34.50" (876.3)	413 (187)	3" Clamp
	2B30	3	230, 460, 575	37.75" (958.9)	35.25" (895.4)	34.50" (876.3)	350 (159)	3" Clamp
	2B50	1	230	41.75" (1060.5)	37.25" (946.2)	34.75" (882.7)	560 (254)	3" Clamp
	2B50	3	230, 460	41.75" (1060.5)	35.25" (895.4)	34.50" (876.3)	367 (166)	3" Clamp
	2B50	3	575	40.50" (1028.7)	35.25" (895.4)	33.50" (850.9)	356 (161)	3" Clamp

Dimensions are subject to change. Not to be used for construction purposes.

Stock model number

AQUABOOST nomenclature

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

Notes



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.

**Learn more about
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