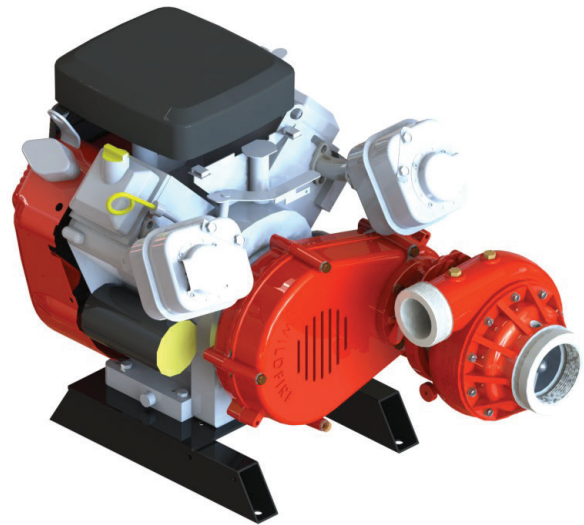


# B2X™ SERIES



## **B2X-23H** VEHICLE MOUNT HORIZONTAL DRIVE

### MID-RANGE 2-STAGE FIRE PUMP

Designed for OEM Fire Apparatus Manufacturers who need a vehicle mounted pump the **WATERAX B2X** is a versatile Mid-Range portable pump that delivers the best performance of its class with minimal operating costs. Unlike other pumps, the **B2X** uses a low maintenance drive belt system that provides efficient and dependable performance.

The **WATERAX B2X-23** pump pairs a reliable high performance Mid-Range 2-stage pump end with a powerful Briggs & Stratton 4-stroke 23 hp engine to achieve pressures of up to 200 PSI (13.8 BAR) and flow rates reaching 300 GPM (1136 L/Min). A strong show of both pressure and volume makes it the ideal pump for vehicle mounted applications dedicated to municipal and wildland urban interface operations.

The **WATERAX** quick release clamp provided on the **B2X** pump provides ease of maintenance without having to disassemble the complete pump unit thus significantly reducing equipment downtime.

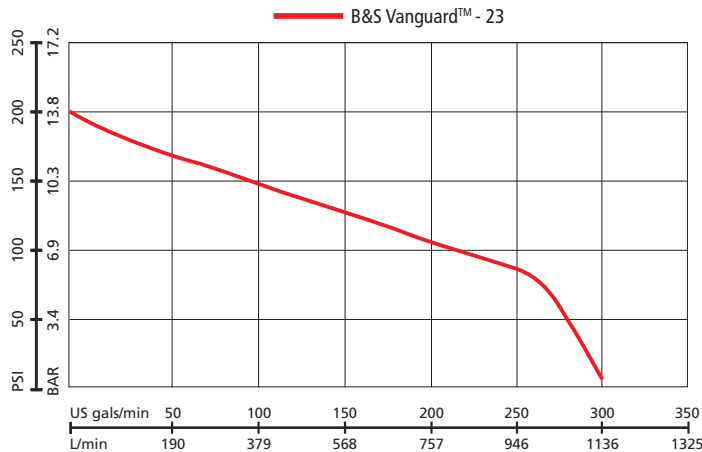
#### Applications

- Vehicle mounted applications
  - Brush trucks
  - Initial attack units
  - Slip-on units
- Booster reel
- 2x 1-1/2" simultaneous attack lines
- 2-1/2" supply line
- Structure protection
- Water transfer
- Boat fire pump

#### Features and Benefits

- Versatile fire pump offering the firefighting capability, high pressure hose reel, multiple attack lines, and water transfer capabilities.
- Quick release clamp and swappable pump ends for ease of maintenance and minimal equipment downtime.
- Belt drive system for reliable, low maintenance performance.
- Aluminum alloy pump components and anodized parts for lighter weight and greater resistance to corrosion
- Comprehensive user and service manuals
- EPA Certified

## SPECIFICATIONS



### Flow rate at specified pressure

Maximum Pressure: 200 PSI (13.8 bar)  
 Free flow: 300 US gals/min (1136 L/min)  
 Maximum Head: 462' (141 m)

Flow Rate			Pressure	
US GPM	( LPM )	@	PSI	( BAR )
288	( 1090 )	@	50	( 3.4 )
200	( 757 )	@	100	( 6.9 )
95	( 360 )	@	150	( 10.3 )

Engine: Briggs & Stratton® Vanguard™ - 23 hp



### Pump Specifications:

Type:	Detachable 2-stage Centrifugal
Ratings:	ISO 9 and NFPA 1906 Medium Pressure Rating of 50 GPM
Description:	Medium Pressure, Medium Flow, Foam Compatible
Maximum Allowable Pressure:	400 PSI (27.6 bar)
Maximum Flow:	300 GPM (1136 lpm)
Intake:	3" NPT Female/4" Victaulic Combination
Discharge:	2-1/2" NPT Female/3" Victaulic Combination
Body & Diffusers:	Anodized corrosive resistant aluminum
Impellers:	4.00" Diameter; Anodized corrosive resistant aluminum
Pump Shaft:	Stainless Steel
Bearings:	Maintenance Free; sealed ball bearing and sintered bronze sleeve
Pump Seal:	Maintenance Free; Blister-resistant carbon seal face, silicon carbide seat, and fully integrated drive bushing.
Clamp:	Hand tight quick release clamp [no tools needed]
Drive Unit:	Timing Belt and Pulley; Speed Inserter
Speed Inserter Position:	Horizontal
Drive Ratio:	1.88: 1
Color:	Red
Special Feature:	The entire pump separates completely from the engine/speed inserter.

### Engine Specifications:

Model & Type:	Briggs and Stratton Vanguard 4-cycle, horizontal shaft, twin cylinder, OHV
Maximum Power:	23 HP (17.2 kW) @ 3600 RPM
Maximum Torque:	32.75 lb-ft (44.4 Nm) @ 2600 RPM
Bore & Stroke:	2.97 x 2.76 inches (72 x 70 mm)
Displacement:	38.26 cubic inches (627 cc)
Starting System:	12 VDC electric start with recoil start
Ignition:	Magnatron
Charging:	16 AMP regulating alternator
Wiring:	Pre-wired for Fast Wire panel connections (panels purchased separately).
Governor:	Mechanical
Cooling:	Air Cooled
Lubrication:	Oil, Full pressure
Oil Capacity:	1.8 quarts (1.7 liters)
Fuel Pump:	18 inch lift.
Emissions:	Meets current CARB, EPA, and CE requirements.
Fuel Type:	Gasoline [unleaded, 86 minimum octane, 10% maximum ethanol]
Fuel Consumption:	2.1 US gals/hr (7.9 liters/hr)
Muffler:	Forestry approved spark arrestor

All features are not available on every model. Please refer to the product selection matrix to select the proper model.

## SPECIFICATIONS

### Primer Specifications:

#### Hand Primer Option:

	Guzzler, Diaphragm Type; Reliable, Lightweight and Rugged
Intake and Discharge Port Size:	½" Female NPT
Construction:	Aluminum Handle, composite body, buna-n reinforced diaphragm and flapper valves
Lift:	12 feet (3.7 m) [up to approximately 16 feet (4.8 m) with suction hose footvalve]
Head Capacity:	30 ft (9.1 m)
Maximum Pressure:	15 PSI (1.03 bar)
Maximum Service Temp:	150° F (66° C)
Volume per Stroke:	0.44 quart (0.42 liter)
Dimensions (L x W x H):	12-3/4" x 4-1/2" x 4-5/16" (324 x 114 x 110 mm)
Weight:	1.70 lbs (0.77 kg)
	Shipped loose with connection hardware and 6 feet of hose

#### Exhaust Primer Option:

	Venturi Type (when selected mounted to exhaust primer muffler)
Venturi Construction:	Brass
Exhaust Valve Construction:	Aluminum with stainless shaft and disc
Operation:	Remote mount push/pull cable.
Vacuum:	Minimum of 17 in-Hg

#### Electric Primer Option:

	12 VDC Piston Type Vacuum Pump
Intake and Discharge Port Size:	3/8" Female NPT
Construction:	Corrosion Resistant Aluminum with Bronze Sleeve and Composite Piston
Max. Current Draw:	105 amps
Lift:	25 feet (7.6 m)
Vacuum:	22 in-Hg
Dimensions:	9" x 4-1/8" x 7-1/2" (229 x 105 x 191 mm)
Weight:	8.1 lbs (3.7 kg)
Vehicle Units:	Shipped loose with mounting plate, hardware, and 6 feet of hose

### Frame Specifications:

Vehicle Mount:	Black flat base with tubular horizontal legs. (Provided with industrial grade stud isolators - shipped loose)
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### Controls Specifications:

Engine supplied controls:	Push/Pull Choke & Throttle lever.
Remote exhaust:	Pull cable
FastWire quick connect:	Loomed engine wire harness (pre-wired to engine) with 8 pin Molex MX150L Industrial Sealed Male Connector. All Vehicle Mounted BB-4 pumps are equipped with FastWire quick connect engine wire harness for plug & play ease in connecting pump engine, power, and control components such as the WATERAX Control Panels MCP, PMSCP, WCP* Series.
WATERAX Control Panels:	MCP, PMSCP, WCP* Series * Water and/or foam level monitors, electric primer, work light options available.

*Note: Refer to the WATERAX Control Panel data sheet and specifications to select a remote mount panel and/or call your WATERAX dealer to customize your own control panel with water and/or foam level monitors, and toggle switches for optional electric primer and work light.*

### PRODUCT SELECTION

### PRODUCT SELECTION MATRIX

		B2X-23H	B2X-23HX
STANDARD INCLUSIONS	Primer	Guzzler Hand Primer	-
		Remote Exhaust Primer w/Control Cable PART-763	-
		Exhaust Primer	-
		Electric Package - Electric Primer, LED work light, & Battery	-
	Muffler	Horizontal low tone	-
		Dual B&S low tone	S
		Exhaust primer muffler	-
	Fuel Tank	Integral / 7 US qts (6.6 L)	-
		Integral / 4 US qts (3.8 L) w/ 3-way valve	-
	Controls	Engine Mount Control Panel	-
Discharge Gauge	0-600 psi, 2-1/2" dial	-	
Check Valve Manifold	B&S 3' CTRL Cable with 8 pin connector (FWC-B-3)	0	
FastWire CTRL Cable	Honda GX630 3' CTRL Cable with 8 pin connector (FWC-H-3)	-	
Weight		156 lbs (71 kg)	164 lbs (74 kg)

### OPTIONS & ACCESSORIES

**Sold Separately**

#### Controls



#### VCBLKIT

Vernier Throttle Cable



#### PMSCP

Panel Mount Standard Control Panel w/ FastWire CTRL connector.








#### MCP



Mini Control Panel w/ FastWire CTRL connector.



#### WCP

WATERAX Control Panel w/ FastWire PWR & CTRL connectors.

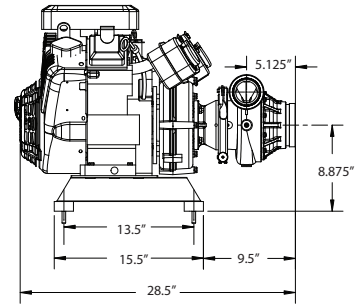
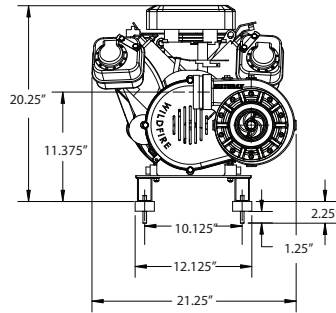
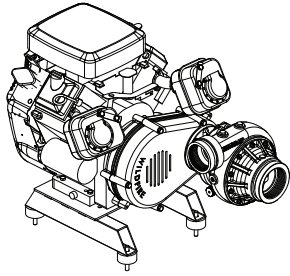
Primer	Electric Kit	FastWire Cables	
 <p><b>GZPRIMERKIT</b> Guzzler Hand Primer with hose &amp; valve</p>	 <p><b>BATKIT-66</b> Deep Cycle Battery Kit w/ FWP-9 cable</p>	 <p><b>FWC-B-3</b> 3' B&amp;S CTRL Cable w/ lugs &amp; 8 pin conn.</p>	 <p><b>FWP-20</b> 20' PWR Cable with lugs &amp; Anderson conn.</p>
 <p><b>EPRIMERKIT</b> Electric Primer w/ plate, 5' harness &amp; switch</p>	 <p><b>WLIGHTKIT</b> LED Work Light w/ 5' harness &amp; toggle switch</p>	<p><b>FWX-3</b> 3' CTRL Cable Extension w/ two 8 pin connectors</p>	<p><b>FWP-9</b> 9' PWR Cable w/ lugs &amp; Anderson conn.</p> <p><b>FWP-3</b> 3' PWR Cable w/ lugs &amp; Anderson conn.</p>

Fuel Tank	Pump Intake & Discharge Adapters
 <p><b>FA-452</b> Remote Fuel Tank 6.6 US Gallons w/ quick conn.</p> <p><b>FA-452-3</b> Remote Fuel Tank 3.2 US Gallons w/ quick conn.</p>	 <p><b>B2X-CONVKIT</b> <b>B2XRK1</b> <b>B2X-PVKIT</b> <b>ADP-B2X-25N25N</b> <b>ADP-B2X-30N25N</b> <b>RED-24255252</b> <b>RED-24255253</b> <b>PART-520</b> <b>PART-521</b> <b>PART-522</b> <b>PART-523</b></p> <p><b>B2 TO B2X CONVERSION KIT</b> SEAL KIT FOR B-2 &amp; B2X B2X PRIMER VALVE KIT ADP KIT B2X,SUC 2.5,DIS 2.5 NH ADP KIT B2X,SUC 3.0,DIS 2.5 NH WYE VALVE 2.5NH F X 1.5NPSH M WYE VALVE 2.5NH F X 1.5NH M GROOVED COUPLING 3",GALV. GROOVED COUPLING 4",GALV. GROOVED CPLG 3 TO 2.5",GALV. GROOVED CPLG 4 TO 3",GALV.</p>
<p><b>12-401B-NS-TRPD</b> Fuel Line EPA - quick conn. to hose 1/4"</p> <p><b>12-401B-NS-TRPD</b> Fuel Line - quick conn. to SAE 45 Flare</p>	

## TECHNICAL DRAWINGS

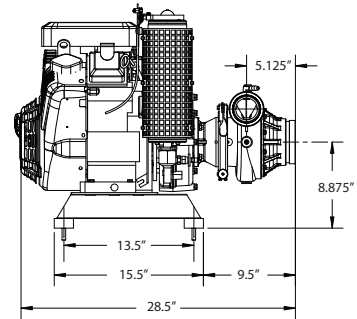
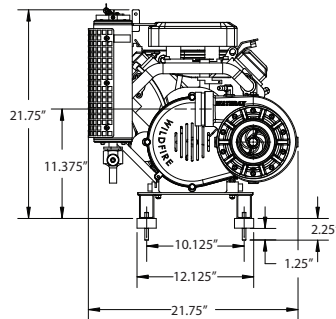
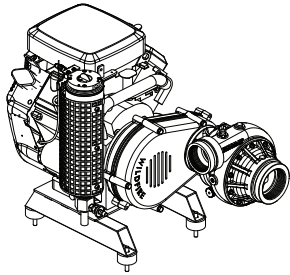
### B2X-23H

Length 28.5" (72.4 cm) Width 21.25" (54 cm) Height 20.25" (51.43 cm) Weight 156 lbs (71 kg)



### B2X-23HX

Length 28.5" (72.4 cm) Width 21.75" (55.25 cm) Height 21.75" (55.24 cm) Weight 164 lbs (74 kg)





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