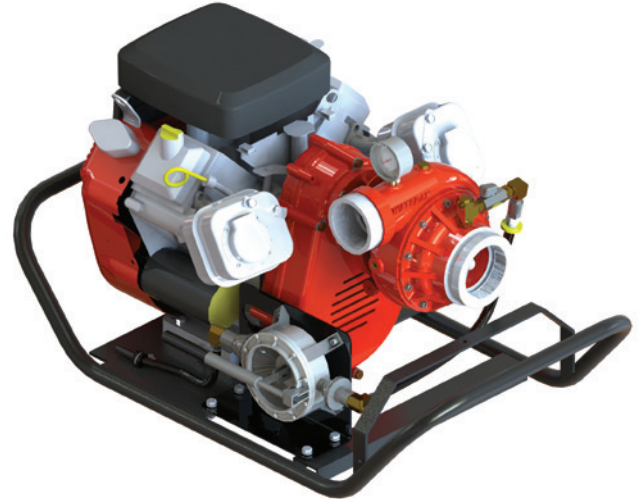


# B2X™ SERIES

## **B2X-23P** **PORTABLE**



### **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.

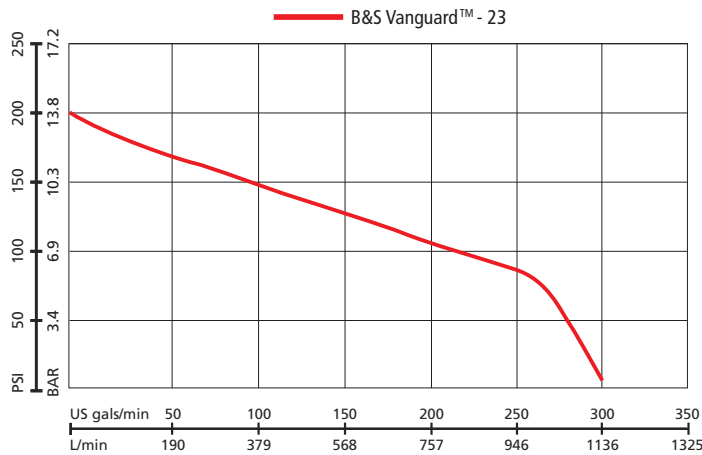
#### **Applications**

- Structure attack lines firefighting
- Tandem pumping over long distance
- Parallel pumping for higher volumes
- 2x 1-1/2" simultaneous attack lines
- 2-1/2" high volume supply line
- Water transfer
- Tanker water fill / removal
- Portable tank fill
- Structure protection

#### **Features and Benefits**

- 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 (Other options available thru adapters)
Discharge:	2-1/2" NPT Female/3" Victaulic Combination (Other options available thru adapters)
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 Increaser
Speed Increaser Position:	Vertical
Drive Ratio:	1.88: 1
Color:	Red
Special Feature:	The entire pump separates completely from the engine/speed increaser.

### 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:	Re-coil start with 12 VDC electric start option
Ignition:	Magnatron
Charging:	16 AMP regulating alternator
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)
Location:	Mounted on starter side of engine

#### 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
Location:	Mounted on the vertical exhaust muffler; starter side of engine.

#### 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)
Location:	Mounted on starter side of engine

### Frame Specifications:

Color:	Black
Finish:	Powder Coat
Handles:	Tubular U-shaped integrated into the base frame

### Controls Specifications:

#### Briggs & Stratton Standard Engine Controls:

Start/Stop:	Turn-key rotary switch
Throttle:	Lever control on left side of blower housing
Choke:	Push/pull ring pin located on starter side of the engine below the air filter housing.

#### Engine Mount Control Panel:

On/Off Switch:	Weather resistant chrome toggle switch
Start:	Weather resistant push button switch (with battery kit option only)
Throttle:	Vernier with red push button emergency throttle idle
Low Oil Pressure Warning:	Red LED (with battery kit option only)
Choke:	Push/pull ring pin located on starter side of the engine below the air filter housing.

### Discharge Gauge Specifications:

0 to 600 PSI Dual unit (PSI/kilopascals) liquid filled; Pump mounted.

### PRODUCT SELECTION

### PRODUCT SELECTION MATRIX

			B2X-23P	B2X-23PC	B2X-23PXC	B2X-23PETC
STANDARD INCLUSIONS	Primer	Guzzler Hand Primer	S	S	-	-
		Remote Exhaust Primer w/Control Cable PART-763	-	-	-	-
		Exhaust Primer	-	-	S	-
		Electric Package - Electric Primer, LED work light, & Battery	-	-	-	S
	Muffler	Horizontal low tone	-	-	-	-
		Dual B&S low tone	S	S	-	-
		Exhaust primer muffler	-	-	S	S
	Fuel Tank	Integral / 7 US qts (6.6 L)	-	-	-	-
		Integral / 4 US qts (3.8 L) w/ 3-way valve	-	-	S	S
	Controls	Engine Mount Control Panel	-	S	S	S
Discharge Gauge	0-600 psi, 2-1/2" dial	S	S	S	S	
Check Valve Manifold	B&S 3' CTRL Cable with 8 pin connector (FWC-B-3)	-	-	-	-	
FastWire CTRL Cable	Honda GX630 3' CTRL Cable with 8 pin connector (FWC-H-3)	-	-	-	-	
Weight		167 lbs (76 kg)	169 lbs (77 kg)	170 lbs (77 kg)	195 lbs (88 kg)	

### OPTIONS & ACCESSORIES

**Sold Separately**

#### Electric Kit



**BATKIT-20-P**  
Battery Kit 12V 20ah, Portable



**WLIGHTKIT**  
LED Work Light w/ 5' harness & toggle switch

#### Fuel Tank & Fuel Line



**FA-452**  
Remote Fuel Tank  
6.6 US Gallons w/ quick conn.

**FA-452-3**  
Remote Fuel Tank  
3.2 US Gallons w/ quick conn.

**12-401B-NS-TRPD**  
Fuel Line EPA -  
quick conn. to hose 1/4"

**12-401B-NS-TRPD**  
Fuel Line -  
quick conn. to SAE 45 Flare

#### Pump Intake & Discharge Adapters

**B2X-CONVKIT**  
**B2XRK1**  
**B2X-PVKIT**

B2 TO B2X CONVERSION KIT  
SEAL KIT FOR B-2 & B2X  
B2X PRIMER VALVE KIT



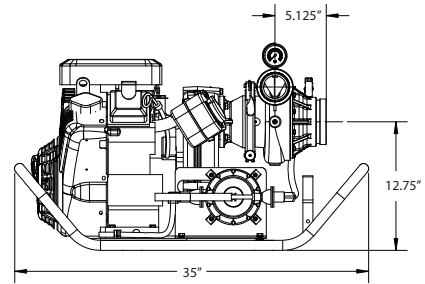
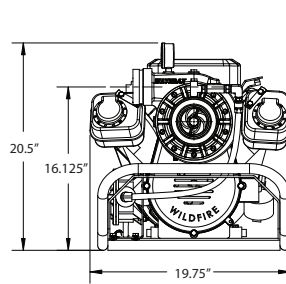
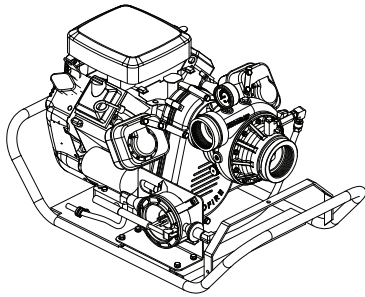
**ADP-B2X-25N25N**  
**ADP-B2X-30N25N**  
**RED-24255252**  
**RED-24255253**  
**PART-520**  
**PART-521**  
**PART-522**  
**PART-523**

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.

## TECHNICAL DRAWINGS

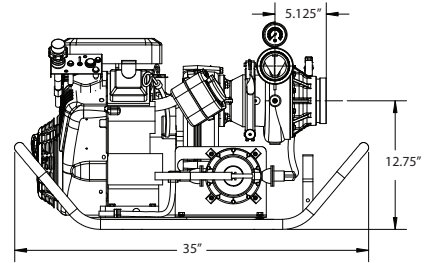
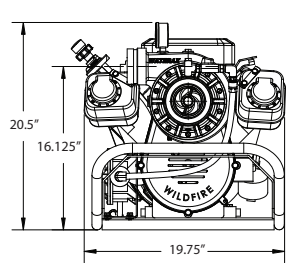
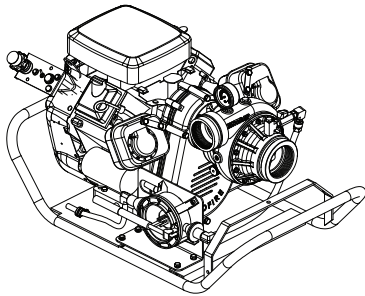
### B2X-23P

Length 35" (88.9 cm) Width 19.75" (50.16 cm) Height 20.5" (52.07 cm) Weight 167 lbs (76 kg)



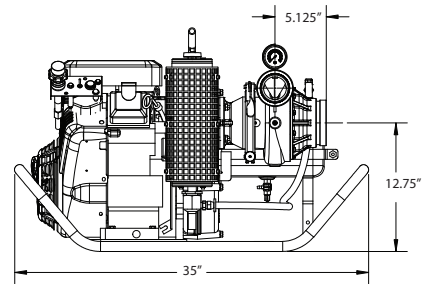
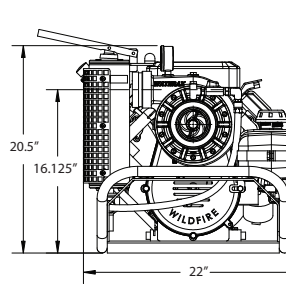
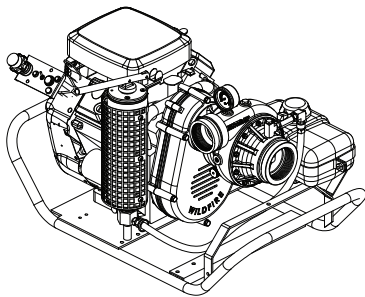
### B2X-23PC

Length 35" (88.9 cm) Width 19.75" (50.16 cm) Height 20.5" (52.07 cm) Weight 169 lbs (77 kg)



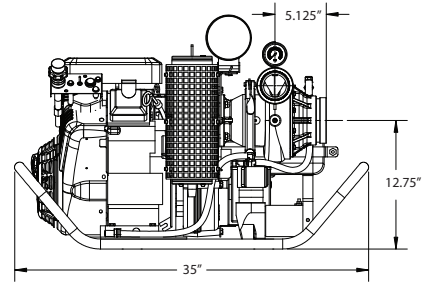
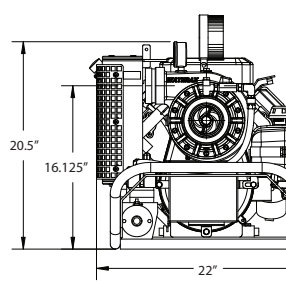
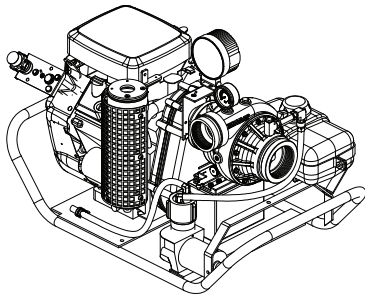
### B2X-23PXTC

Length 35" (88.9 cm) Width 22" (55.88 cm) Height 20.5" (52.07 cm) Weight 170 lbs (77 kg)



### B2X-23PETC

Length 35" (88.9 cm) Width 22" (55.88 cm) Height 23.25" (59.05 cm) Weight 195 lbs (88 kg)





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