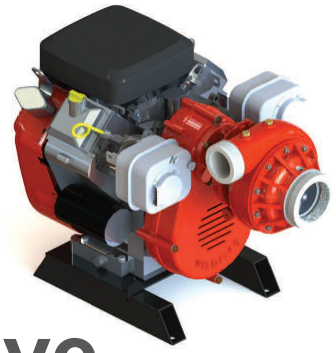
WATERAX



B2X-18V
Vehicle mount vertical drive

DATA SHEET

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-18** pump pairs a reliable high performance Mid-Range 2-stage pump end with Briggs & Stratton 4-stroke 18 hp engine to achieve pressures of up to 190 PSI (13.1 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.

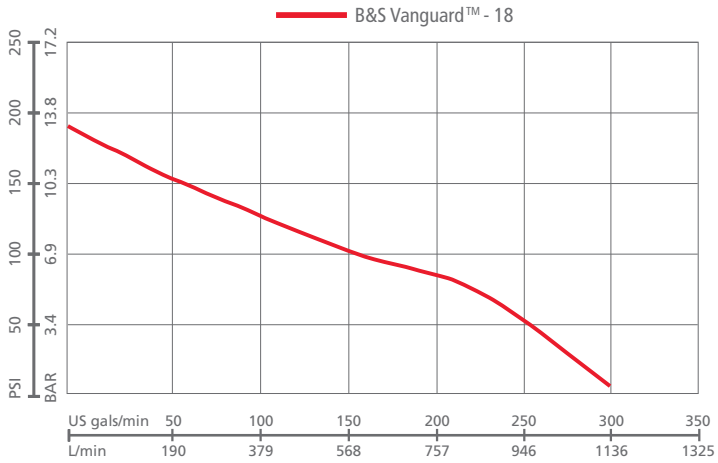
Applications

- 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: 190 PSI (13.1 bar)
Free flow: 300 US gals/min (1136 L/min)
Maximum Head: 439' (134 m)

Flow Rate			Pressure	
US GPM	(LPM)		PSI	(BAR)
261	(988)	@	50	(3.4)
150	(568)	@	100	(6.9)
65	(246)	@	150	(10.3)

Engine: Briggs & Stratton® VanguardTM - 18 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 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:	18 HP (13.4 kW) @ 4000 RPM
Maximum Torque:	26.9 lb-ft (36.5 Nm) @ 2800 RPM
Bore & Stroke:	2.83 x 2.76 inches (72 x 70 mm)
Displacement:	34.78 cubic inches (570 cc)
Starting System:	12 VDC electric start with recoil start
Ignition:	Magnatron
Charging:	16 AMP regulating alternator
Wiring:	Pre-wired for FastWire 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:	1.6 US gals/hr (6.1 liters/hr)
Optional Integrated Fuel Tank:	7 US quarts (6.6 liters) with manual shut off valve
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)

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-18V	B2X-18VT	B2X-18VX
STANDARD INCLUSIONS	Primer	Guzzler Hand Primer	-	-	-
		Remote Exhaust Primer w/Control Cable PART-763	-	-	S
		Exhaust Primer	-	-	-
		Electric Package - Electric Primer, LED work light, & Battery	-	-	-
	Muffler	Horizontal low tone	-	-	-
		Dual B&S low tone	S	S	-
		Exhaust primer muffler	-	-	S
	Fuel Tank	Integral / 7 US qts (6.6 L)	-	S	-
		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)	S	S	S
	FastWire CTRL Cable	Honda GX630 3' CTRL Cable with 8 pin connector (FWC-H-3)	-	-	-
	Weight		153 lbs (69 kg)	157 lbs (71 kg)	157 lbs (71 kg)

OPTIONS & ACCESSORIES

Sold Seperately

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

GZPRIMERKIT
Guzzler Hand Primer
with hose & valve

EPRIMERKIT
Electric Primer w/ plate,
5' harness & switch

Electric Kit

BATKIT-66
Deep Cycle Battery Kit
w/ FWP-9 cable

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

FastWire Cables

FWC-B-3
3' B&S CTRL Cable
w/ lugs & 8 pin conn.

FWX-3
3' CTRL Cable Extension
w/ two 8 pin connectors

FWP-20
20' PWR Cable with lugs
& Anderson conn.

FWP-9
9' PWR Cable w/ lugs
& Anderson conn.

FWP-3
3' PWR Cable w/ lugs
& Anderson conn.

Fuel Tank

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

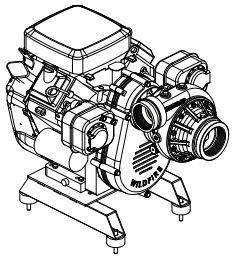
Pump Intake & Discharge Adapters

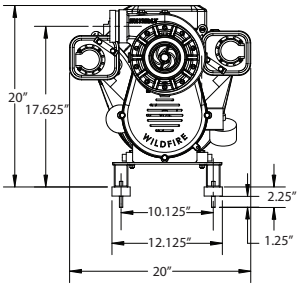
B2X-CONVKIT	B2 TO B2X CONVERSION KIT
B2XRK1	SEAL KIT FOR B-2 & B2X
B2X-PVKIT	B2X PRIMER VALVE KIT
ADP-B2X-25N25N	ADP KIT B2X,SUC 2.5,DIS 2.5 NH
ADP-B2X-30N25N	ADP KIT B2X,SUC 3.0,DIS 2.5 NH
RED-24255252	WYE VALVE 2.5NH F X 1.5NPSH M
RED-24255253	WYE VALVE 2.5NH F X 1.5NH M
PART-520	GROOVED COUPLING 3",GALV.
PART-521	GROOVED COUPLING 4",GALV.
PART-522	GROOVED CPLG 3 TO 2.5",GALV.
PART-523	GROOVED CPLG 4 TO 3",GALV.

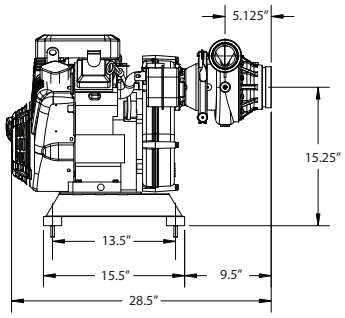
TECHNICAL DRAWINGS

B2X-18V

Length 28.5” (72.4 cm) Width 20” (51 cm) Height 20” (51 cm) Weight 153 lbs (69 kg)

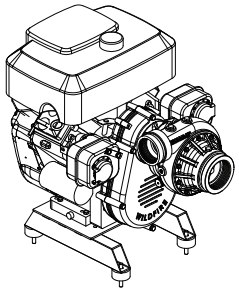


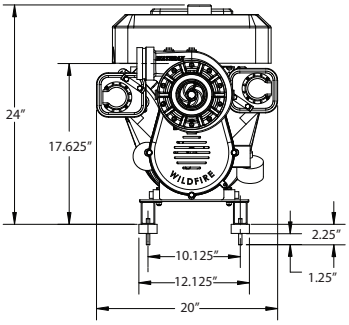


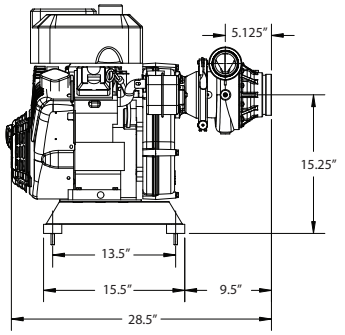


B2X-18VT

Length 28.5” (72.4 cm) Width 20” (51 cm) Height 24” (61 cm) Weight 157 lbs (71 kg)

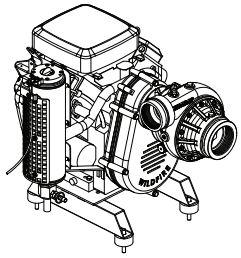


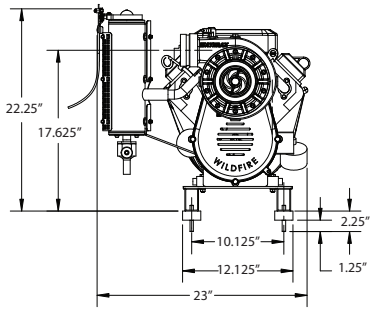


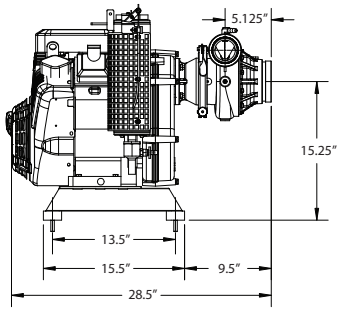


B2X-18VX

Length 28.5” (72.4 cm) Width 22” (56 cm) Height 22.25” (56.5 cm) Weight 157 lbs (71 kg)







WATERAX

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To help you stay **#ReadyForWildfires**, we've made a few changes, placing 100% of our focus on manufacturing our core products, portable fire pumps. To do so, we've established a network of trusted supply and distribution partners that can help us provide *WATERAX* pumps quickly in addition to water-handling equipment and accessories.

For immediate assistance when it comes to pumps and water-handling accessories, please contact your local dealer.

For genuine spare parts, visit our online store.

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