

B2X™ SERIES



B2X-21H 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-21** pump pairs a reliable high performance Mid-Range 2-stage pump end with a powerful Honda 4-stroke 21 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.

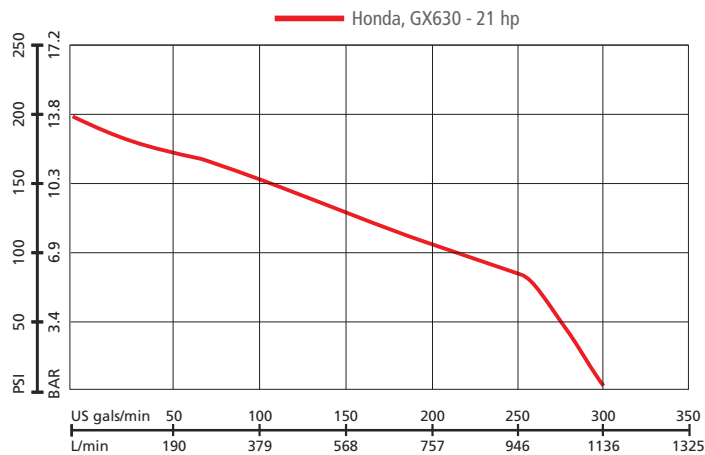
Applications

- 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
 Free Flow: 300 US gals/min (1136 L/min)
 Maximum Head: 462' (141 m)

Flow Rate			Pressure	
US GPM	(LPM)	@	PSI	(BAR)
275	(1041)	@	50	(3.4)
215	(814)	@	100	(6.9)
112	(424)	@	150	(10.3)

Engine: Honda, GX630 - 21 hp

HONDA
ENGINES

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
 Pump Seal: Heat resistant, Maintenance Free
 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: Honda, GX630 Series 4-cycle, horizontal shaft, twin cylinder, OHV
 Maximum Power: 20.8 HP (15.5 kW) @ 3600 RPM
 Maximum Torque: 35.6 lb-ft (48.3 Nm) @ 2500 RPM
 Bore & Stroke: 3.07 x 2.83 inches (78 x 72 mm)
 Displacement: 41.98 cubic inches (688 cc)
 Starting System: 12 VDC electric start
 Ignition: Digital CDI with variable ignition timing
 Charging: 17 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: 2.1 quarts (2.0 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: 1.8 US gals/hr (6.8 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
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.
FastWire quick connect:	Loomed engine wire harness (pre-wired to engine) with 8 pin Molex MX150L Industrial Sealed Male Connector. All Vehicle Mounted B2X 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-21H	
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	S
		Dual B&S low tone	-
		Exhaust primer muffler	-
	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
FastWire CTRL Cable	Honda GX630 3' CTRL Cable with 8 pin connector (FWC-H-3)	-	
Weight		169 lbs (77 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
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GZPRIMERKIT
Guzzler Hand Primer
with hose & valve



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



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



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



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



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

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

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

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

Fuel Tank	Pump Intake & Discharge Adapters
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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.



B2X-CONVKIT
B2XRK1
B2X-PVKIT
ADP-B2X-25N25N
ADP-B2X-30N25N
RED-24255252
RED-24255253

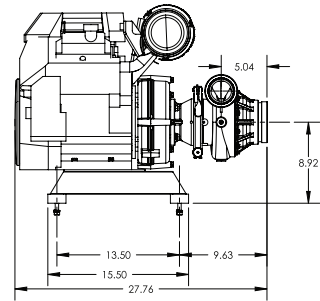
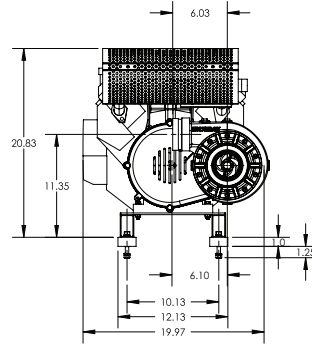
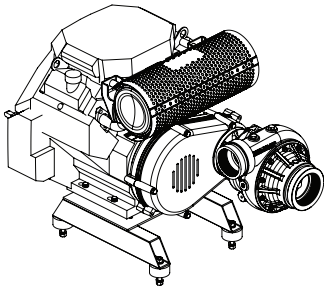
B2 TO B2X CONVERSION KIT
SEAL KIT FOR B-2 & B2X
B2X PRIMER VALVE KIT
ADP KIT B2X,SUC 2.5,DIS 2.5 NH
ADP KIT B2X,SUC 3.0,DIS 2.5 NH
WYE VALVE 2.5NH F X 1.5NPSH M
WYE VALVE 2.5NH F X 1.5NH M

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

B2X-21H

Length 27.76" (70.5 cm) Width 19.97" (50.72 cm) Height 20.83" (52.9 cm) Weight 169 lbs (77 kg)





WATERAX Inc.
6635 Henri-Bourassa W.
Montreal, QC H4R 1E1

TF 855-616-1818

T 514-637-1818

F 514-637-3985

info@waterax.com
www.waterax.com

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