

B2X-25H



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-25H** pump pairs a reliable mid-range performance 2-stage pump end with a powerful **24.8 HP Honda 4-stroke IGX800 EFI** engine to achieve pressures of up to **210 PSI (14.5 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. It is fully compatible with the **DCP**, supporting both **single** and **dual control panel configurations**. The engine speed can be controlled via the **DCP** directly through the engine **ECU**, without the need for an additional throttle actuator.

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.

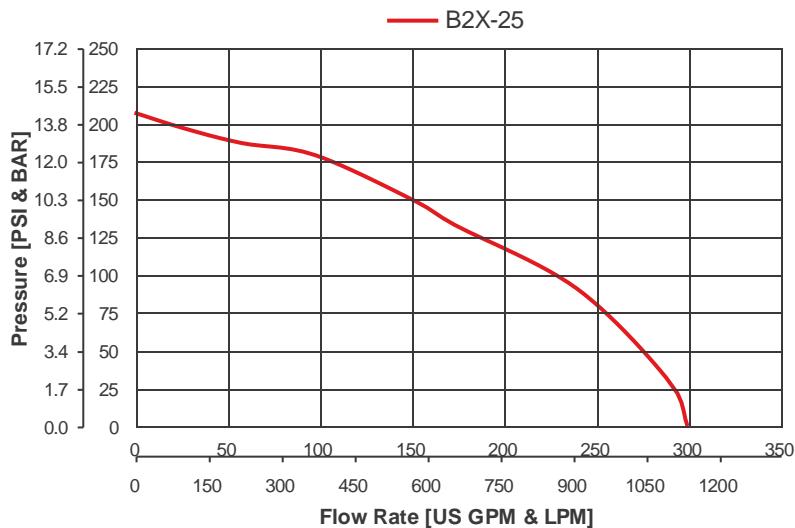
Applications

- Vehicle mounted applications
 - Brush trucks
 - Initial attack units
 - Slip-on units
- Pump-and-roll
- 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 minimal equipment downtime and inventory
- Belt drive system for reliable, low maintenance performance
- Aluminium alloy pump components and anodized parts for lighter weight and greater resistance to corrosion
- Comprehensive user and service manuals
- Single or dual control panel with remote throttle control
- EPA Certified

SPECIFICATIONS



Flow rate at specified pressure

Maximum pressure: 210 PSI (14.8 bar)
 Free Flow: 300 US gals/min (1136 L/min)
 Maximum Head: 484' (148 m)

US GPM (LPM)	Flow Rate		Pressure			
	278 (1051)	233 (881)	155 (586)	50 (3.4)	100 (6.9)	150 (10.3)
	@	@	@	50 (3.4)	100 (6.9)	150 (10.3)

Engine: IGX800 Honda – 24.8 HP

HONDA

Engine Specifications

Model & Type	Honda IGX800 4-stroke, overhead valve, 2 cylinders (90° V-twin)
Net Power	24.8 HP (18.5 kW) @ 3600 RPM
Net Torque	40.2 lbf-ft (54.5 N-m) @ 2500 RPM
Bore & Stroke	3.27 x 2.83 inches (83 x 72 mm)
Displacement	47.52 cubic inches (779 cc)
Compression Ratio	9.1:1
Cooling	Air-cooled
Governor	Electronic Governor (STR -Self Tuning Regulator)
Starting system	Electronic Fuel Injection (EFI)
Ignition	Digital CDI with variable ignition timing
Lubrication	Oil, Full pressure
Oil Capacity	2.1 US quarts (2.0 liters)
Oil Type	SAE 10W-30, API SJ or later
Fuel Consumption	1.87 US gal/h (7.1 L/h) @ 3600 RPM
Fuel Type	Gasoline [unleaded 86 octane or higher]
Charging	17 AMP regulating alternator
Battery Capacity	12 Volt, 36 Amp-Hour or equivalent
Wiring	Pre-wired for FastWire panel connections (panels sold separately)
Muffler	Forestry Approved Spark Arrestor Optional.

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)
Intake	3" NPT Female / 4" Victaulic Combination
Discharge	2-1/2" NPT Female / 3" Victaulic Combination
Drive Ratio	2.12: 1
Drive Unit	Timing Belt and Pulley, Speed Increaser
Speed Increase	Horizontal position
Priming Port	1/4" Female NPT Thread
Body & Diffusers	Anodized corrosive resistant aluminum
Pump Seal	Heat resistant Maintenance free.
Pump Shaft	Stainless Steel
Color	Red
Impellers	4.00" Diameter; Anodized corrosive resistant aluminum
Bearings	Maintenance Free; sealed ball bearing
Clamp	Hand tight quick release clamp (no tools needed)

Emissions	Meets current CARB, EPA and CE requirements.	Special feature	The entire pump separates completely from the engine/speed increaser
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SECIFICATIONS

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 foot valve]
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)

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:

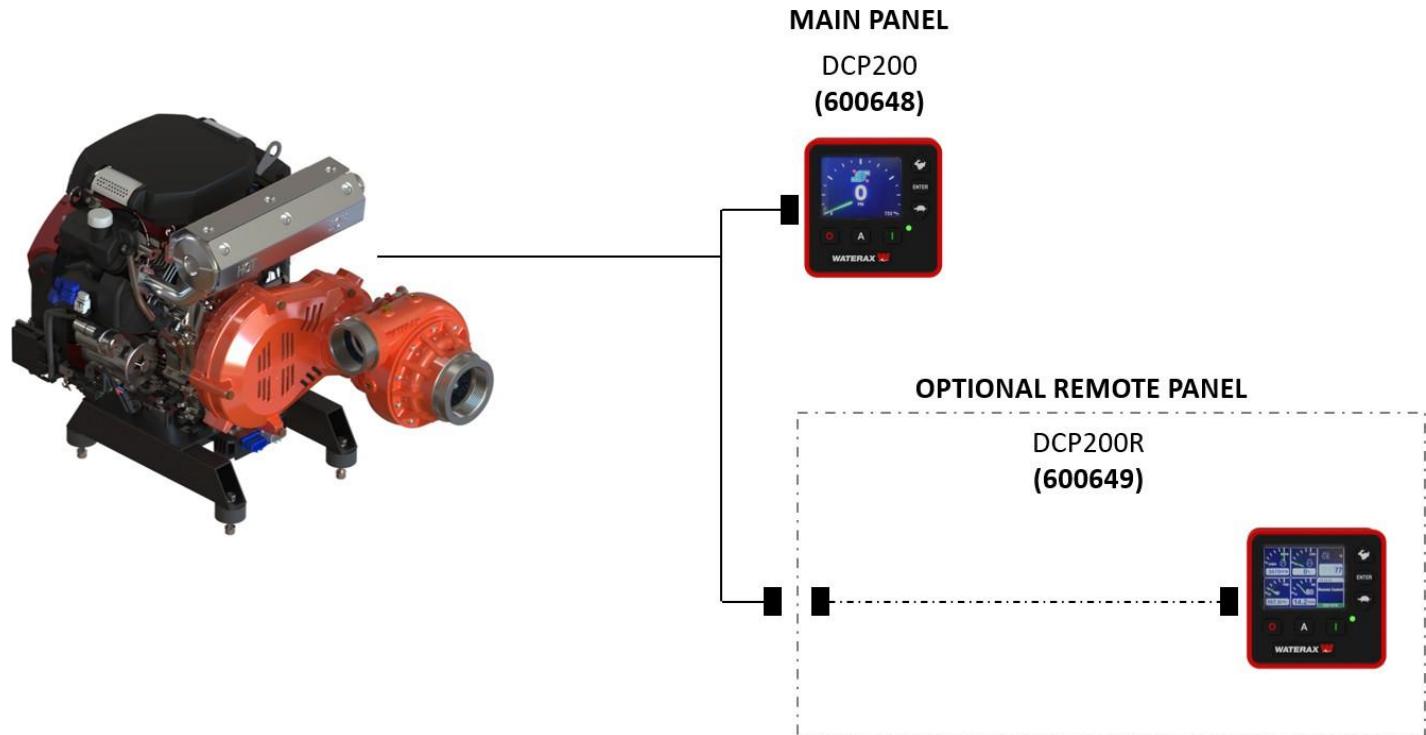
Engine supplied controls	N/A.
Digital Control Panel	Digital Control Panel DCP200 with push buttons (<i>OFF</i> to turn Off Engine, <i>Enter</i> to cycle display screen menu, <i>Armed</i> to enables RUN Function, <i>Run</i> to start the engine, <i>Rabbit</i> and <i>Turtle</i> to move the throttle up and down), a LED indicator (becomes red when there is an error) and a 4 inch LCD screen displaying parameters; RPM, Throttle Position, Pump Pressure, Hour Meter, Battery Voltage and Current Status. Low Water Pressure Protection and Low Oil Warning safety features are integrated in the panel. Can seamlessly add a secondary panel (DCP200R) for remote/in-cab panel operation.
FastWire quick connect	Loomed engine wire harness (pre-wired to engine). All vehicle Mounted BB-4 pumps are equipped with FastWire quick connect engine wire harness for plug & play ease in connecting pump and control panels.

CONTROL PANELS

Digital Control Panel – DCP200

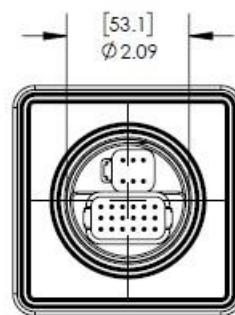
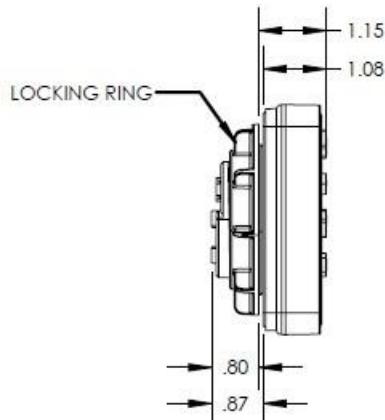
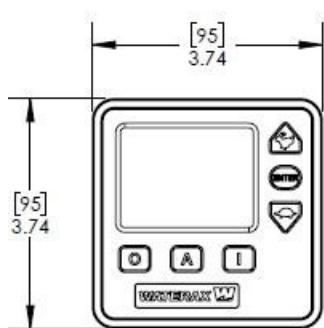
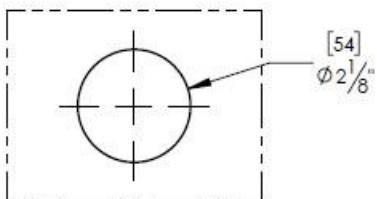


Single or Dual Control Panel Configuration



DCP200

REQUIRED PANEL CUT OUT:



Options & Accessories

Sold Separately



GZPRIMERKIT
Guzzler Hand Primer
with hose & valve



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



**B-6365 CHECK VALVE MANIFOLD 1-1/2
NPSH**

TECHNICAL DRAWINGS

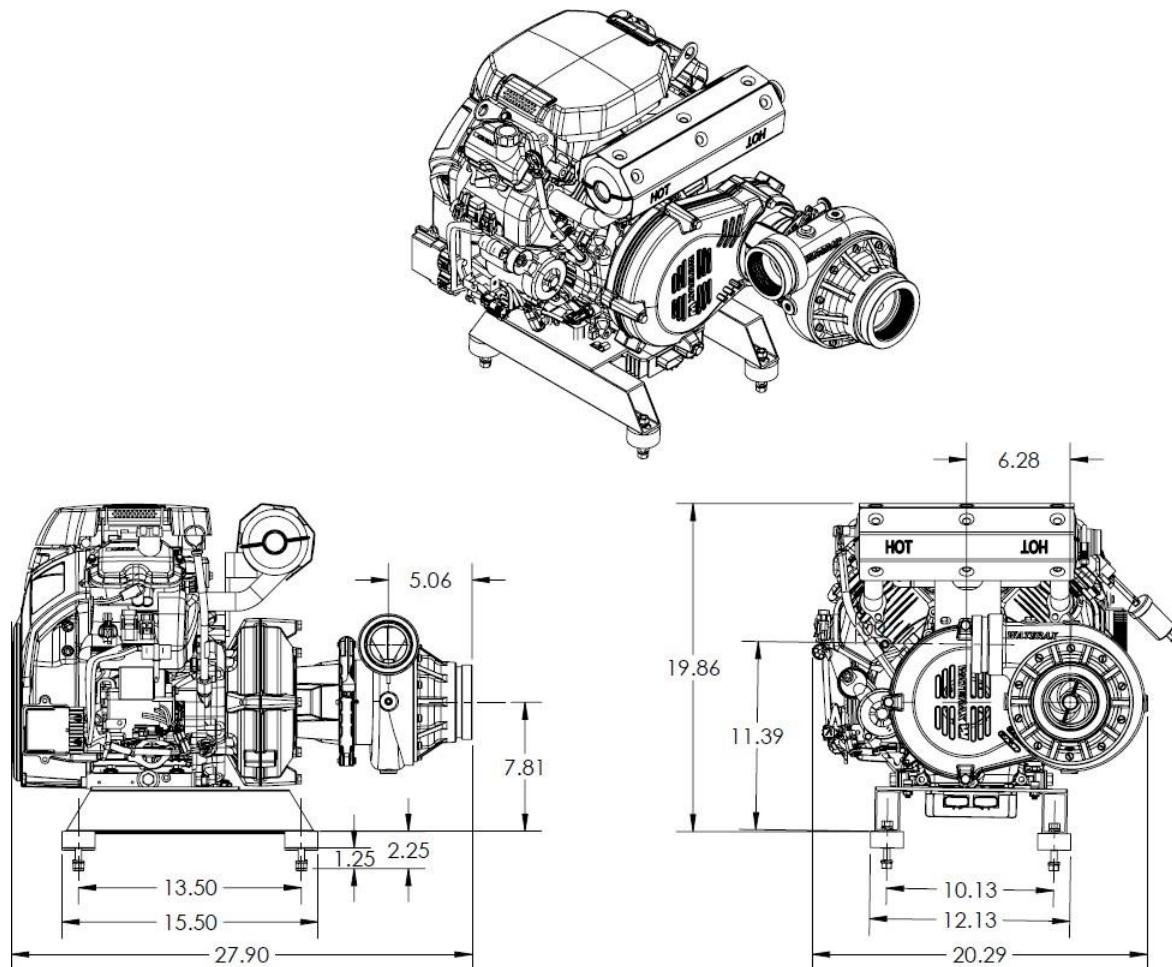
B2X-25H

Length 27.9" (70.9 cm)

Width 20.3" (50.0 cm)

Height 19.9" (50.5 cm)

Weight 178.5 lbs (81.2kg)



WATERAX

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WATERAX INC.
6635 Henri-Bourassa W.
Montreal, QC H4R 1E1
T 514 637-1818
F 514 637-3985
TF 1 855 616-1818
info@waterax.com

waterax.com

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](#).