

BB-4-25H



DATA SHEET

HIGH-PRESSURE 4-STAGE FIRE PUMP

The **WATERAX BB-4-25** pump pairs a reliable high performance 4-stage pump end with a powerful **24.8 HP Honda 4-stroke IGX800 EFI** engine to achieve pressures of up to **470 PSI (32.4 BAR)** and flow rates reaching **109 GPM (413 L/Min)**. Strong enough to operate as a source pump for tandem and parallel pumping, it is also optimal for direct attack firefighting, remote watering, sprinkler systems, and is a popular choice for slip-on units. This pump delivers best-in-class performance and full **DCP** compatibility in both **single** and **dual control panel** configurations. This unit allows for **engine speed control** via the DCP directly through the engine **ECU** without the need for an additional throttle actuator.

The **WATERAX** quick release clamp provided on the **BB-4®** pump lets you replace a damaged pump end in the field with minimal equipment downtime. The 4-stage pump end on the **BB-4®** is identical to the pump end in the **MARK-3®** unit, which greatly reduces your spare parts inventory and improves your ability to respond to unforeseen equipment damage. You can also quickly install a mid-range **B2X™** pump end as needed for supply or structure firefighting.

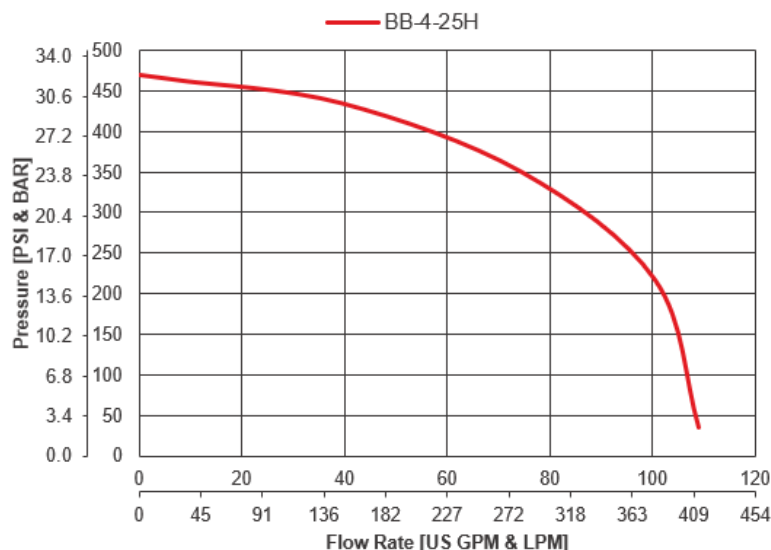
Applications

- Slip-on units
- Pump-and-roll
- Attack line firefighting
- Long hose lay for remote watering during firefighting operations
- High elevation firefighting in mountainous areas
- Accuracy in flow trajectory when structure fire fighting
- Tandem pumping over long distances
- Parallel pumping for higher volumes

Features and Benefits

- Quick release clamp and swappable pump end for minimal equipment downtime and inventory
- Sealed bearing to eliminate pump end greasing in the field
- 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: 470 PSI (32.4 bar)
 Free Flow: 109 US gals/min (413 L/min)
 Maximum head: 1084.4' (330.5 m)

Flow Rate			Pressure	
US GPM	(LPM)		PSI	(BAR)
105	(397)	@	150	(10.3)
96	(363)	@	250	(17.2)
74.2	(280.5)	@	350	(24.1)

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
Battery Capacity	12 Volt, 36 Amp-Hour or equivalent
Charging	17 AMP regulating alternator
Fuel Consumption	1.87 US gal/h (7.1 L/h) @ 3600 RPM
Fuel Type	Gasoline [unleaded 86 octane or higher]
Wiring	Pre-wired for FastWire panel connections (panels sold separately)
Muffler	Forestry Approved Spark Arrestor
Emissions	Meets current CARB, EPA and CE requirements.

Pump Specifications

Type	Detachable, 4-stage, centrifugal pump
Ratings	ISO 9 and NFPA 1906 Medium Pressure Rating of 50 GPM
Description	High Pressure, Medium Flow, Foam Compatible
Maximum Allowable Pressure	600 PSI (41.4 bar)
Intake	2" Male NPSH Thread
Discharge	Check Valve: 1-1/2" male NPSH thread (meets US Forest Service Specification 5100-382)
Drive Unit	Timing Belt and Pulley, Speed Increaser
Drive Ratio	2.12: 1
Speed Increase	Horizontal position
Priming Port	1-1/2" Male NPSH Thread
Body & Diffusers	Anodized corrosive resistant aluminum
Pump Seal	Blister-resistant carbon seal face, silicon carbide seat, and fully integrated drive bushing.
Pump Shaft	Stainless Steel
Impellers	3.67" Diameter; Anodized corrosive resistant aluminum
Bearings	Maintenance Free; sealed ball bearing and sintered bronze sleeve
Clamp	Hand tight quick release clamp (no tools needed)

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 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:

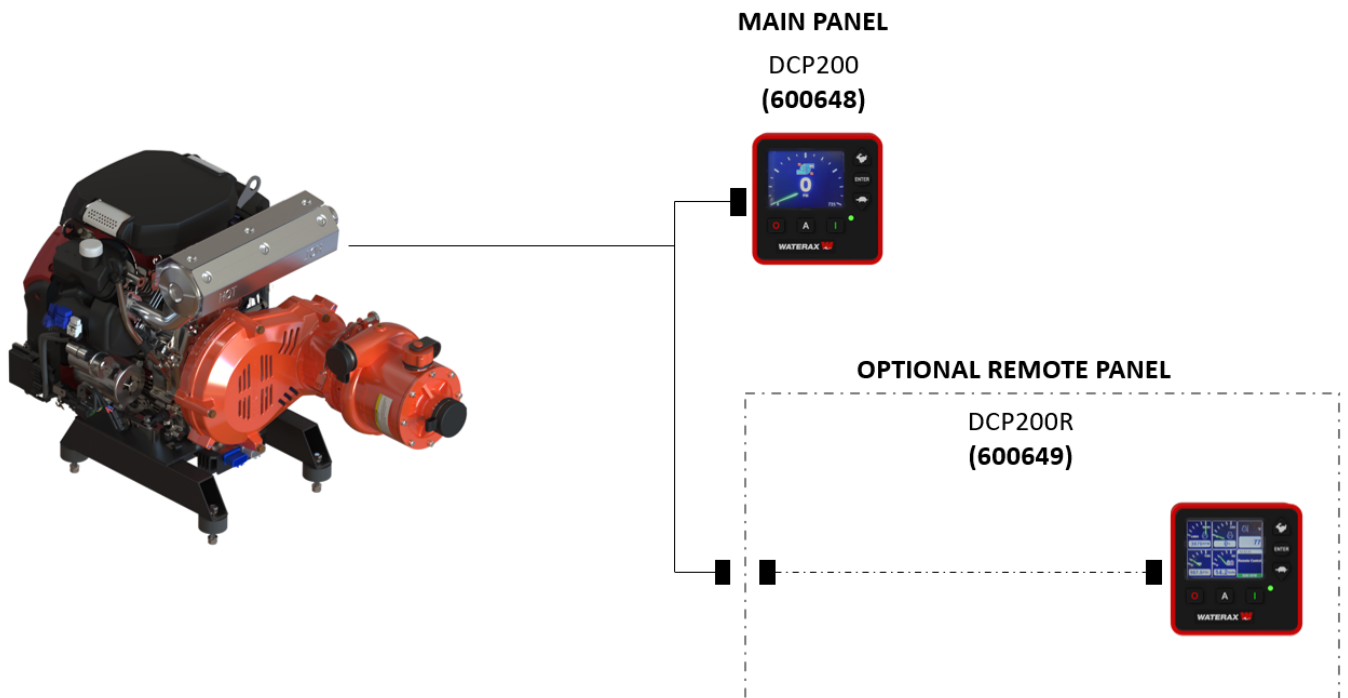
Engine supplied controls	N/A.
Digital Control Panel	Digital Control Panel DCP200 with push buttons (<i>OFF</i> to turn Off Engine, <i>Enter</i> to cycle display screen menu, <i>Armed</i> to enables RUN Function, <i>Run</i> to start the engine, <i>Rabbit</i> and <i>Turtle</i> to move the throttle up and 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

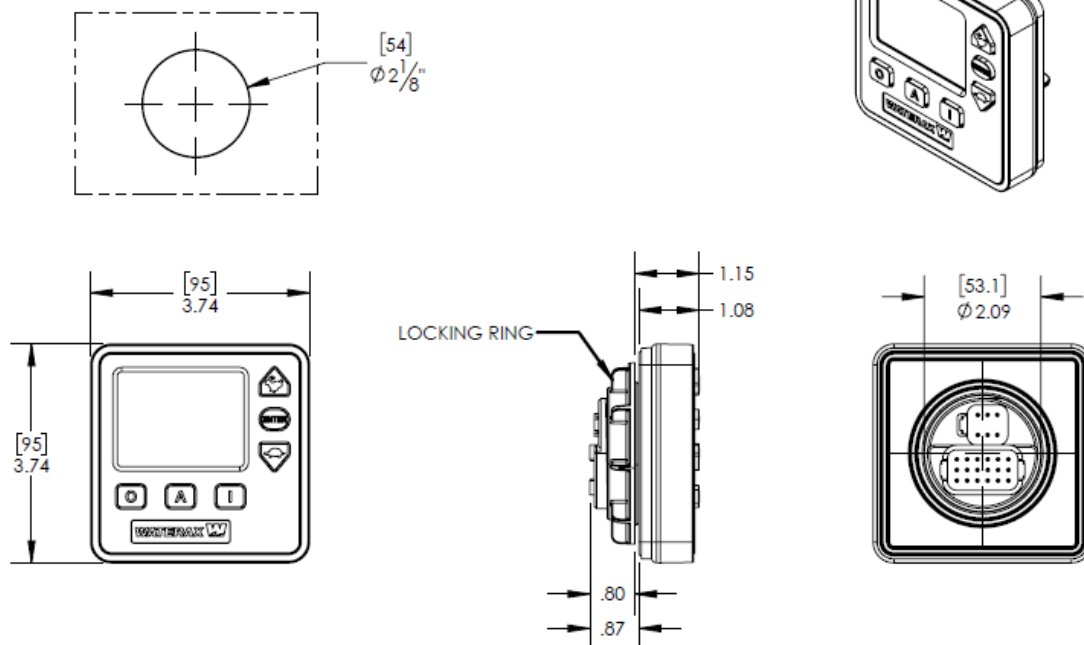


Single or Dual Control Panel Configuration



DCP200

REQUIRED PANEL CUT OUT:



Options & Accessories

Sold Separately



GZPRIMERKIT

Guzzler Hand Primer with hose & valve



EPRIMERKIT

Electric Primer with plate, 5' harness & switch



B-6365

Check Valve Manifold 1-1/2 NPSH

TECHNICAL DRAWINGS

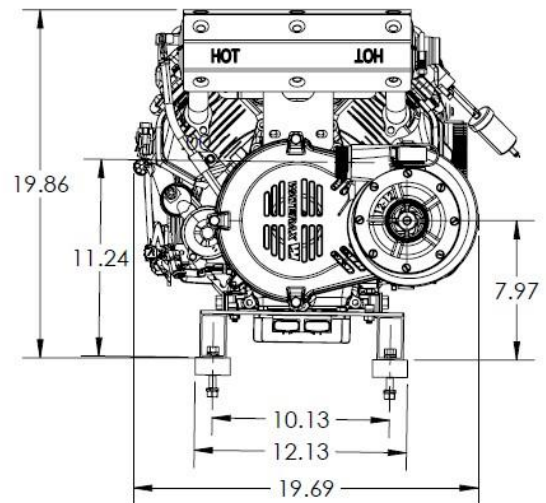
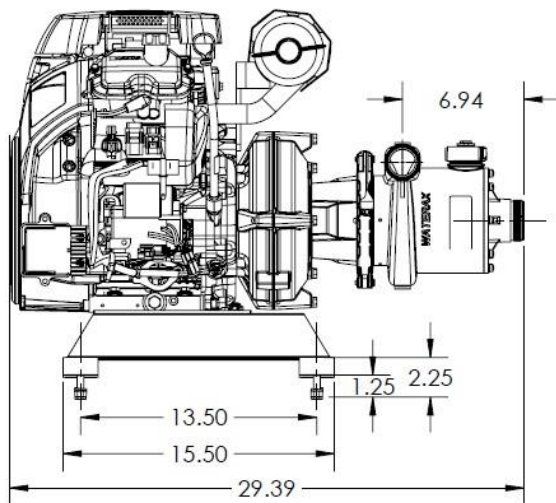
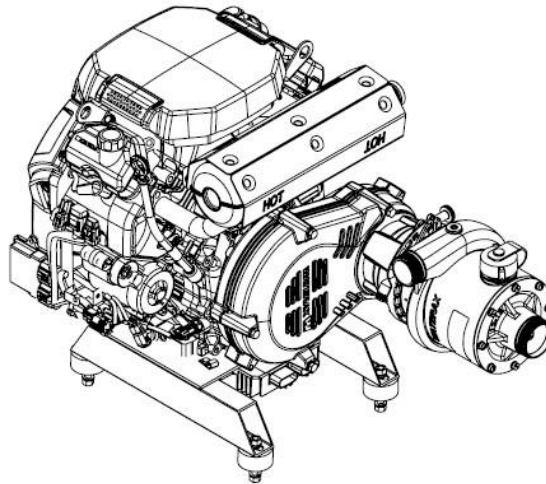
BB-4-25H

Length 29.4" (74.6 cm)

Width 19.6" (49.8 cm)

Height 19.9" (50.5 cm)

Weight 178.5 lbs (81.2 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](#).