

## 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.

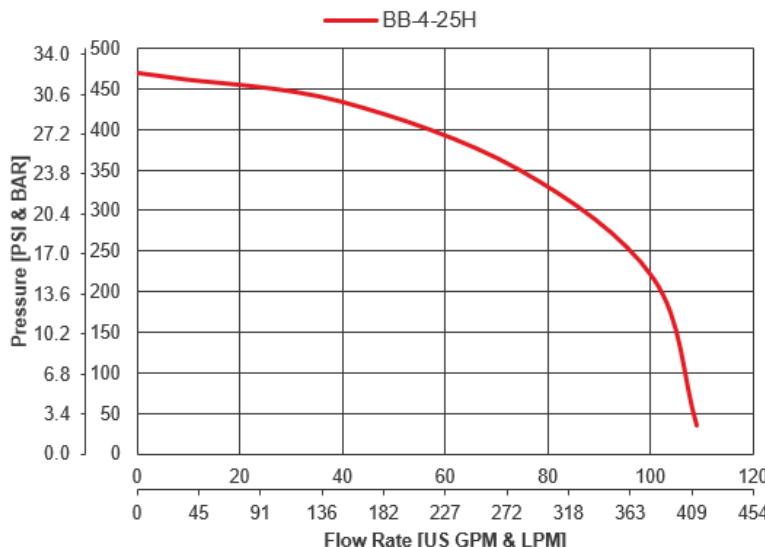
### Applications

- 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)

US GPM (LPM)	Flow Rate		Pressure	
	PSI	(BAR)	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

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

### Pump Specifications

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

## SPECIFICATIONS

### Primer Specifications:

<b>Hand Primer Option</b>	Guzzler, Diaphragm Type; Reliable, Lightweight and Rugged
<b>Intake and Discharge Port Size</b>	1/2" Female NPT
<b>Construction</b>	Aluminum Handle, composite body, buna-n reinforced diaphragm and flapper valves
<b>Lift</b>	12 feet (3.7 m) [up to approximately 16 feet (4.8 m) with suction hose foot valve]
<b>Head Capacity</b>	30 ft (9.1 m)
<b>Maximum Pressure</b>	15 PSI (1.03 bar)
<b>Maximum Service Temp</b>	150° F (66° C)
<b>Volume per Stroke</b>	0.44 quart (0.42 liter)
<b>Dimensions (L x W x H)</b>	12-3/4" x 4-1/2" x 4-5/16" (324 x 114 x 110 mm)
<b>Weight</b>	1.70 lbs (0.77 kg)
<b>Electric Primer Option</b>	12 VDC Piston Type Vacuum Pump
<b>Intake and Discharge Port Size</b>	3/8" Female NPT
<b>Construction</b>	Corrosion Resistant Aluminum with Bronze Sleeve and Composite Piston
<b>Max. Current Draw</b>	105 amps
<b>Lift</b>	25 feet (7.6 m)
<b>Vacuum</b>	22 in-Hg
<b>Dimensions</b>	9" x 4-1/8" x 7-1/2" (229 x 105 x 191 mm)
<b>Weight</b>	8.1 lbs (3.7 kg)
<b>Vehicle Units</b>	Shipped loose with mounting plate, hardware, and 6 feet of hose.

### Frame Specifications:

<b>Vehicle Mount</b>	Black flat base with tubular horizontal legs. (Provided with industrial grade stud isolators – shipped loose)
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### Controls Specifications:

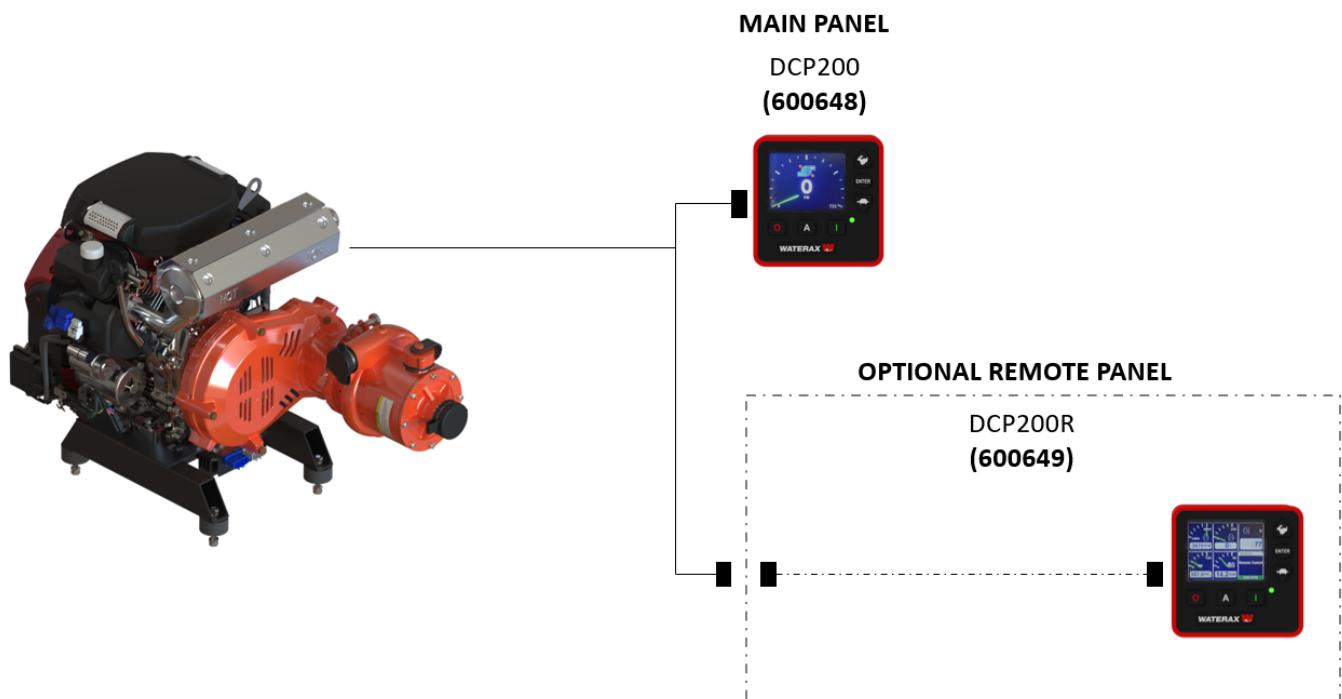
<b>Engine supplied controls</b>	N/A.
<b>Digital Control Panel</b>	Digital Control Panel DCP200 with push buttons ( <i>OFF</i> to turn Off Engine, <i>Enter</i> to cycle display screen menu, <i>Armed</i> to enables RUN Function, <i>Run</i> to start the engine, <i>Rabbit</i> and <i>Turtle</i> to move the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

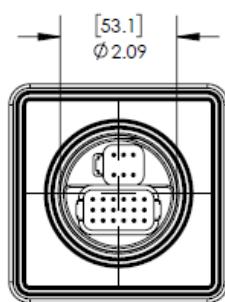
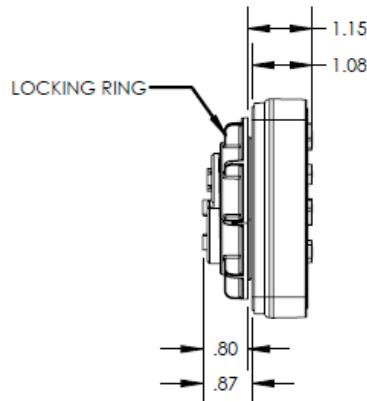
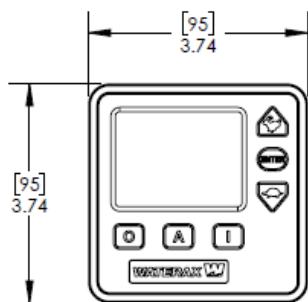
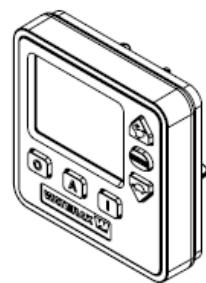
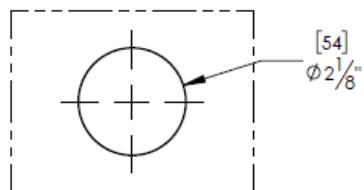


### Single or Dual Control Panel Configuration



## 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

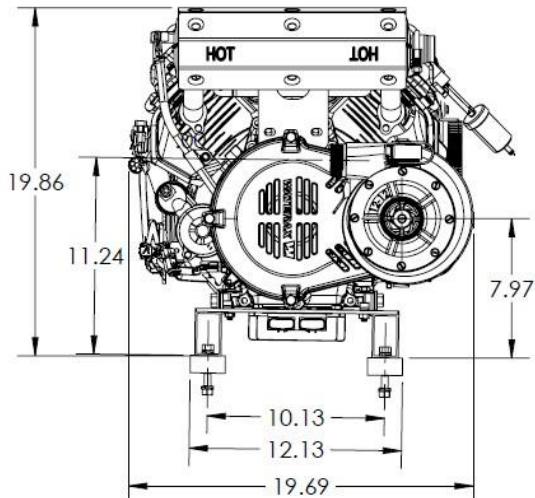
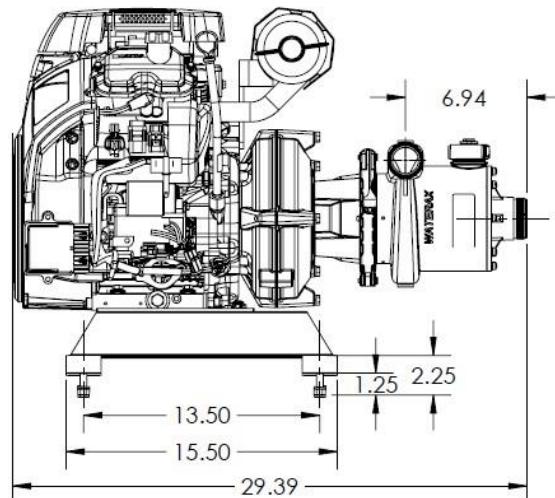
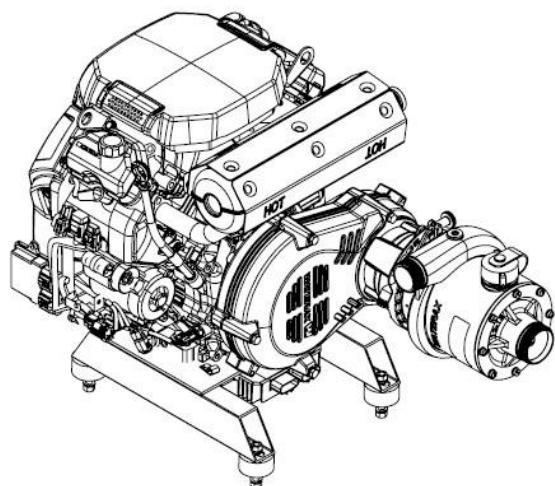
### BB-4-25H

**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.