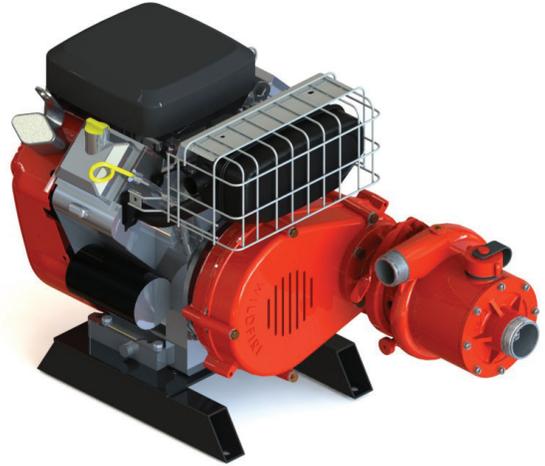


BB-4[®]

SERIES



BB-4-18H

VEHICLE MOUNT HORIZONTAL DRIVE

HIGH PRESSURE 4-STAGE FIRE PUMP

The **WATERAX** BB-4-18 pump pairs a reliable high performance 4-stage pump end with a powerful Briggs & Stratton 4-stroke 18 HP engine to achieve pressures of up to 440 PSI (30.3 BAR) and flow rates reaching 104 GPM (394 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.

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 on 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.

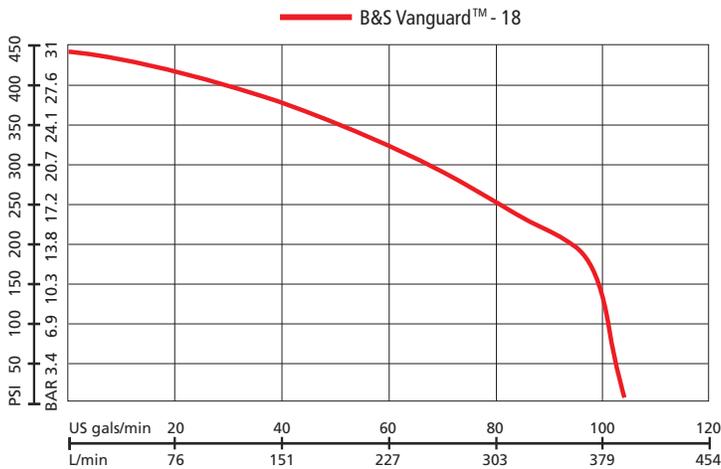
Applications

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

Features and Benefits

- Quick release clamp and swappable pump ends 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
- EPA Certified

SPECIFICATIONS



Flow rate at specified pressure

Maximum Pressure: 440 PSI (30.3 bar)
 Free flow: 104 US gals/min (394 L/min)
 Maximum Head: 1016' (310 m)

Flow Rate			Pressure	
US GPM	(LPM)	@	PSI	(BAR)
100	(379)	@	150	(10.3)
80	(303)	@	250	(17.2)
50	(189)	@	350	(24.1)

Engine: Briggs & Stratton® Vanguard™ - 18 hp



Pump Specifications:

Type: Detachable 4 stage Centrifugal
 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: 1-1/2" Male NPSH Thread
 Priming Port: 1-1/2" Male NPSH Thread
 Body & Diffusers: Anodized corrosive resistant aluminum
 Impellers: 3.67" 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 Increaser
 Speed Increaser Position: Horizontal
 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 Option: 7 US quarts (6.6 liters) with manual shut off valve
 Muffler: Forestry approved spark arrester

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):	12-¾" x 4-½" 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:	¾" 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:	Choke & Throttle levers.
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.
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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

		BB-4-18H	BB-4-18HT	BB-4-18HX	BB-4-18HXT	
STANDARD INCLUSIONS	Primer	Guzzler Hand Primer	-	-	-	-
		Remote Exhaust Primer w/Control Cable PART-763	-	-	S	S
		Exhaust Primer	-	-	-	-
		Electric Package - Electric Primer, LED work light, & Battery	-	-	-	-
	Muffler	B&S horizontal low tone	S	S	-	-
		Dual B&S low tone	-	-	-	-
		Exhaust primer muffler	-	-	S	S
	Fuel Tank	Integral / 7 US qts (6.6 L)	-	S	-	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	1-1/2" NPSH	-	-	-	-	
FastWire CTRL Cable	B&S 3' CTRL Cable with 8 pin connector (FWC-B-3)	S	S	S	S	
Weight		153 lbs (69 kg)	157 lbs (71 kg)	161 lbs (73 kg)	165 lbs (75 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.

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



- ADP-A-FM20S** Adapter 2" NPSH Female to NPSH Male
- ADP-A-FM20SP** Adapter 2" NPSH Female to NPT Male
- ADP-A-FM20SV** Adapter 2" NPSH Female to Victaulic
- ADP-A-FM15SN** Adapter 1-1/2" NPSH Female to NH Male
- ADP-A-FM15S** Adapter 1-1/2" NPSH Female to NPSH Male
- ADP-A-FM15SP** Adapter 1-1/2" NPSH Female to NPT Male
- ADP-A-FM15SV** Adapter 1-1/2" NPSH Female to Victaulic

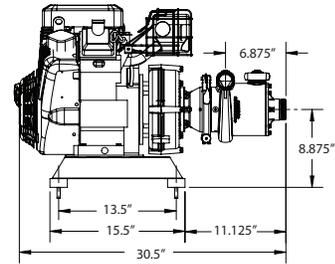
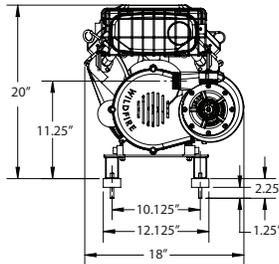
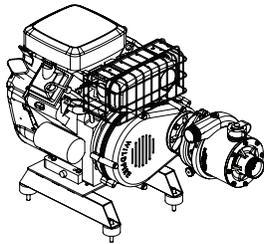


B-6365 Check valve manifold 1-1/2" NPSH

TECHNICAL DRAWINGS

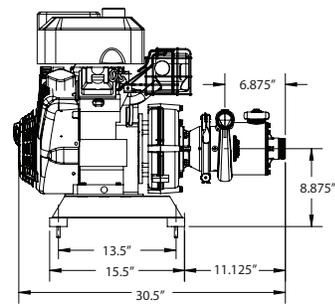
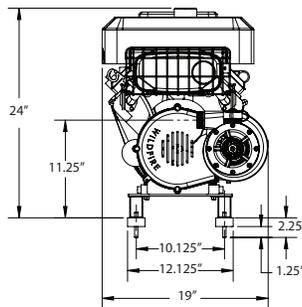
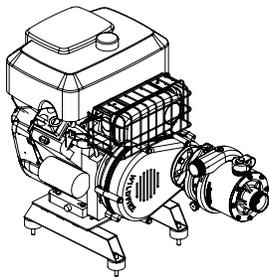
BB-4-18H

Length 30.5" (77.5 cm) Width 18" (45.75 cm) Height 20" (51 cm) Weight 153 lbs (69 kg)



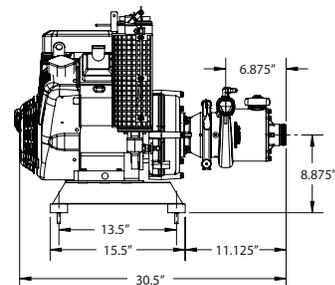
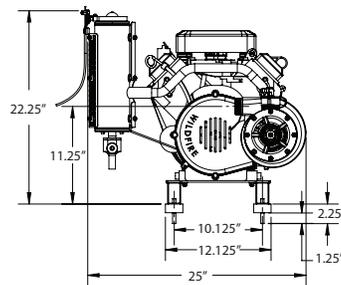
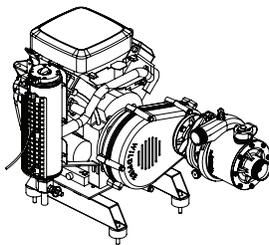
BB-4-18HT

Length 30.5" (77.5 cm) Width 19" (48.25 cm) Height 24" (61 cm) Weight 157 lbs (71 kg)



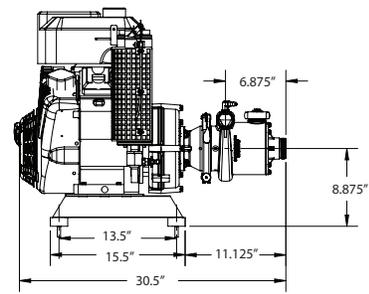
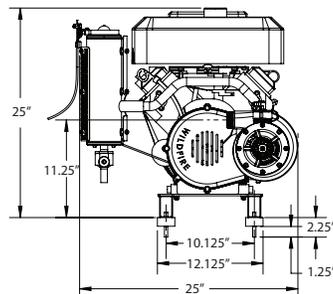
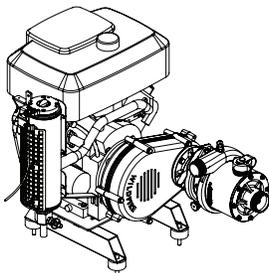
BB-4-18HX

Length 30.5" (77.5 cm) Width 25" (63.5 cm) Height 22.25" (56.5 cm) Weight 161 lbs (73 kg)



BB-4-18HXT

Length 30.5" (77.5 cm) Width 25" (63.5 cm) Height 25" (61 cm) Weight 165 lbs (75 kg)





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