

B2X™ DIESEL



B2X-D902 VEHICLE MOUNT

MID-RANGE 2-STAGE FIRE PUMP

The **WATERAX B2X-D902** pump pairs a reliable high performance Mid-Range 2-stage pump end with a powerful Kubota D902-E4B 3-Cylinder Fuel Injected Liquid Cooled 25 HP Diesel Engine to achieve pressures of up to 180 PSI (12.4 bar) and flow rates reaching 310 GPM (1173 lpm). 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.

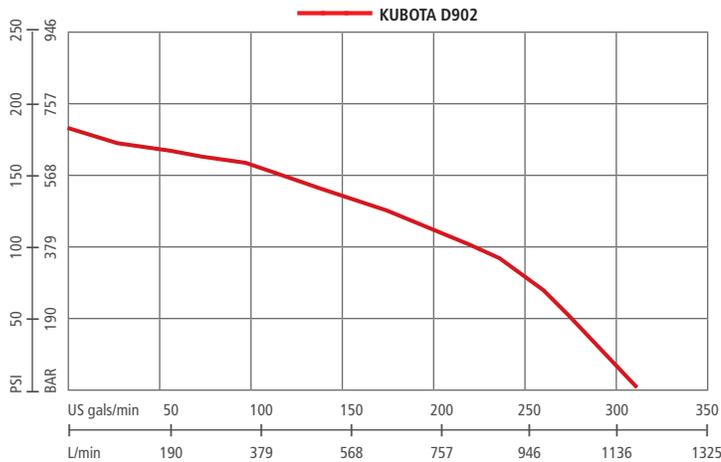
Applications

- 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, 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: 180 PSI (12.4 bar)
 Free flow: 310 GPM (1173 lpm)
 Maximum Head: 415' (127 m)

Flow Rate			Pressure	
US GPM	(LPM)	@	PSI	(BAR)
274	(1037)	@	50	(3.4)
220	(833)	@	100	(6.9)
112	(424)	@	150	(10.3)
0	(0)	@	180	(12.4)

Engine: Kubota D902-E4B - 25 hp



Pump Specifications:

Type	Detachable 2-stage Centrifugal
Ratings	ISO 9 and NFPA 1906 Medium Pressure Rating of 50 GPM (Texas Only)
Description	Medium Pressure, Medium Flow, Foam Compatible
Max. Allowable Pressure	400 PSI (27.6 bar)
Max. Discharge Pressure	180 PSI (12.4 bar)
Max. Flow	310 GPM (1173 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 and sintered bronze sleeve
Pump Seal	Maintenance Free; heat resistant silicone carbide.
Clamp	Hand tight quick release clamp [no tools needed]
Drive Unit	Timing Belt and Pulley; Speed Inserter
Available Speed	
Inserter Position	Horizontal or Vertical
Drive Ratio	1.88: 1
Color	Red
Special Feature	The entire pump separates completely from the engine/speed inserter.

Engine Specifications:

Model & Type	Kubota D902-E4B 3-Cylinder Fuel Injected Liquid Cooled Diesel Engine
Net Power	24.8 HP (18.5 kW) @ 3600 RPM
Net Torque	40.6 lb-ft (55 Nm) @ 2600 RPM
Max. Bare Idle Speed	900 to 1000 RPM
Bore & Stroke	2.83 x 2.9 inches (72 x 73.6 mm)
Displacement	54.80 cubic inches (898 cc)
Electric Starting System	12 VDC, 1.0 kW Starter (with glow plug)
Charging	12 Volt, 40 Amp
Battery Capacity (5Hr Capacity)	12 Volt, 52 Amp-Hour or equivalent
Intake System	Naturally Aspirated
Cooling	Liquid Cooled
Compression Ratio	24:1
Oil Capacity	3.9 quarts (3.7 liters)
Oil Type (API Classification)	API CJ-4
Emissions	Meets current CARB, EPA, and CE requirements.
Fuel Type	Ultra Low Sulfur (15 ppm or less)
Muffler	Rain Cap Standard, Forestry Approved Spark Arrestor Optional.

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

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	4 Leg Mounts.
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Controls Specifications

PMSCP-Diesel	Push Button On/Off Switch (lit when on), Low Pressure Protection Switch (lit when on), Push Button Engine Start, Glow Plug Timer, Low Oil Pressure, Warning Light, High Water Temperature Warning Light, Vernier Throttle, Pump Discharge Pressure Gage and mounting for optional electric primer momentary control toggle switch (comes in electric primer kit).
LOFA	Rotary OFF/RUN/Start Switch; LED Indicators for glow plug preheat, alternator charge failure, Low oil pressure, and high Low Pump Pressure Protection Override Switch; Oil Pressure Gage; Voltage Gage; Tachometer and Hourmeter.

NOTE: Both panels come with FastWire Connections for ease in installation and maintenance.
A 3 foot extension is also available.

PRODUCT SELECTION

PRODUCT SELECTION MATRIX

		B2X-D902V	B2X-D902H
STANDARD INCLUSIONS	Primer	Guzzler Hand Primer	0
		Electric Primer	0
	Muffler	Rain Cap	S
		Forestry Approved Spark Arrestor	0
	Drive Orientation	Vertical	S
		Horizontal	-
	Controls	PMSCP-DIESEL	0
		LOFA	0
	Fastwire	FWX-D902-3 3' Extension Harness	0
	Dimensions	L x W x H	38.2" x 20.6" x 37"
Weight		280 lbs (127 kg)	280 lbs (127 kg)

Standard **S** Option **O** Not applicable **-**

OPTIONS & ACCESSORIES

Sold Separately

CONTROLS



PMSCP-DIESEL

Panel Mount Standard Control Panel w/ FastWire CTRL connector.

LOFA

Rotary OFF/RUN/Start Switch and Low Pump Pressure Override Toggle Switch. LED Indicators for glow plug preheat, low battery voltage, low oil pressure, high coolant temperature and low pump pressure protection override. Gages for coolant temperature, oil pressure, battery voltage, tachometer and hourmeter.



ELECTRIC KIT



BATKIT-66

Deep Cycle Battery Kit w/ FWP-9 cable



WLIGHTKIT

LED Work Light w/ 5' harness & toggle switch



FWX-D902-3

3' CTRL Cable extension w/ two 14pin connectors



FWP-20

20' PWR Cable with lugs & Anderson conn.

FWP-9

9' PWR Cable w/ lugs & Anderson conn.

FWP-3

3' PWR Cable w/ lugs & Anderson conn.

PRIMER



GZPRIMERKIT

Guzzler Hand Primer with hose & valve



EPRIMERKIT

Electric Primer w/ plate, 5' harness & switch

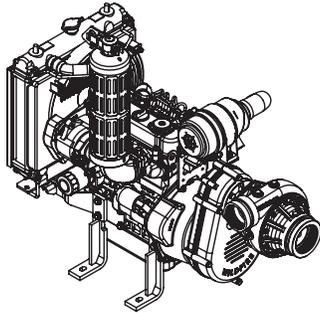


PUMP INTAKE & DISCHARGE ADAPTER

B2XRK1
B2X-PVKIT
ADP-B2X-25N25N
ADP-B2X-30N25N
PART-520
PART-521
PART-522
PART-523

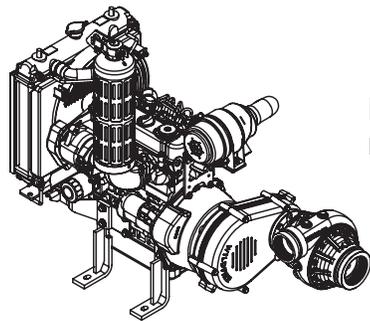
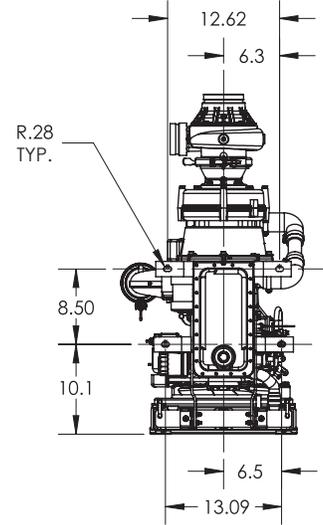
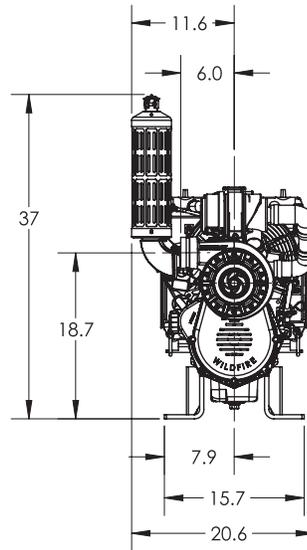
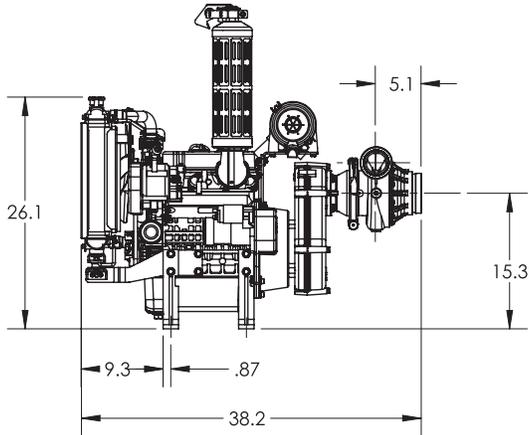
SEAL KIT FOR B-2 & B2X
 B2X PRIMER VALVE KIT
 ADP KIT B2X,SUC 2.5,DIS 2.5 NH
 ADP KIT B2X,SUC 3.0,DIS 2.5 NH
 GROOVED COUPLING 3", GALV.
 GROOVED COUPLING 4", GALV.
 GROOVED CPLG 3 TO 2.5", GALV.
 GROOVED CPLG 4 TO 3", GALV.

TECHNICAL DRAWINGS



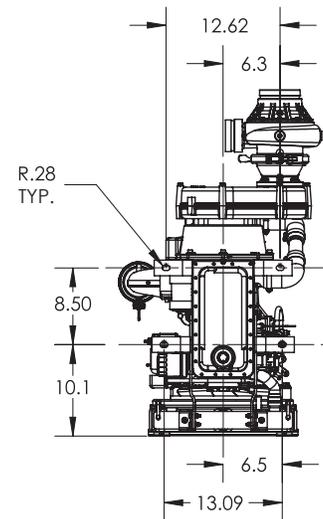
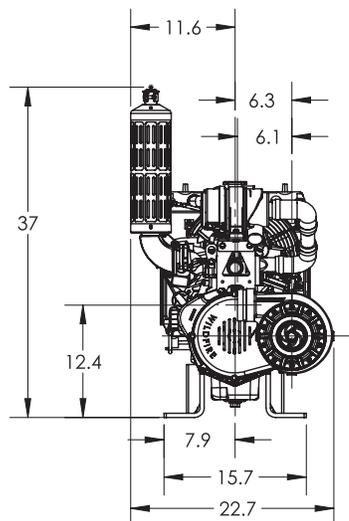
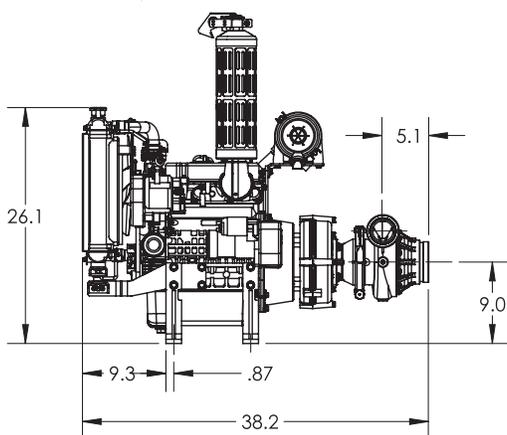
B2X-D902V

Length 38.2" (97 cm) Width 20.6" (52.32 cm) Height 37" (94.0 cm) Weight 280 lbs (127 kg)



B2X-D902H

Length 38.2" (97 cm) Width 22.7" (57.65 cm) Height 37" (94.0 cm) Weight 280 lbs (127 kg)





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