WATERAX

MK3-W

MARK-3® Watson Edition

Maintaining the tradition while moving technology forward: the **MARK-3® Watson Edition** plugs right into your existing MARK-3® water-moving systems. It will set a new benchmark of excellence for high-pressure fire pumps in the wildland firefighting community for generations to come.

While preserving the iconic look of the classic MARK-3® pump, the all-new MARK-3® Watson Edition is an entirely new platform that boasts exciting, modernized features including the first ever purpose-built engine for a wildland pump.

Engineered for versatility in the field, the MK3-W supports flexible fuel configurations and adapts easily to a wide range of operational needs. Lightweight, rugged, and proven on the fireline, it empowers crews with consistent power and confidence when conditions are unpredictable and time is critical.

The MK3-W is qualified after being tested in accordance with the USDA Forest Service 100-hour endurance test conducted in San Dimas.
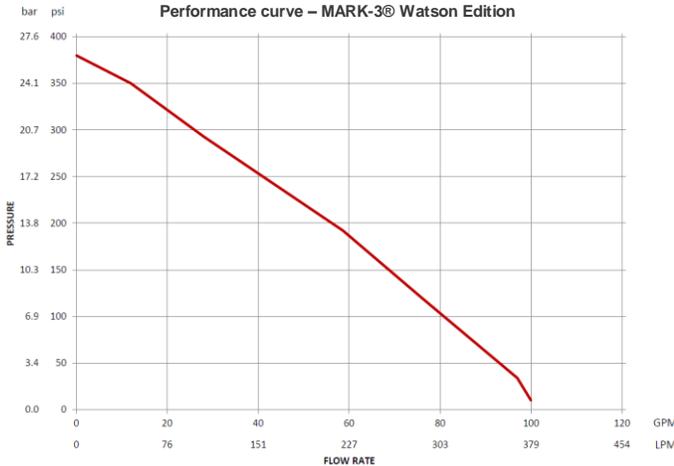
Applications

- Direct attack wildfire operations.
- Relay tank pumping for remote watering during firefighting operations.
- High-elevation firefighting in mountainous areas.
- In series pumping over long distances.
- Parallel pumping for higher volumes.

Features and Benefits

- Quick-release clamp and detachable pump end for minimal equipment downtime.
- Sealed bearing to eliminate pump end greasing in the field.
- Aluminum alloy pump components and anodized parts for lighter weight and greater resistance to corrosion.
- Anti-flooding feature significantly reduces risk of flooding engine.
- Bluetooth connectivity, enabling real-time monitoring via a mobile app with a dashboard interface.

SPECIFICATIONS

Performance curve – MARK-3® Watson Edition

Flow rate at specified pressure

Maximum Pressure: **380 PSI** (26.2 bar)
Free flow: **100 US gals/min** (379 L/min)
Maximum Head: **877'** (267 m)

Flow Rate			Pressure	
US GPM	(LPM)		PSI	(BAR)
80	(303)	@	100	(6.9)
70	(265)	@	150	(10.3)
40	(151)	@	250	(17.2)

Engine Specifications

Model & Type	WATERAX 140cc, 2-cycle, air-cooled, Nikasil® coated
Displacement	140 cc
Power	10.7 HP (8 kW) @ 8000 RPM
Torque	7.6 lb-ft (10 Nm) @ 7050 RPM
Duty Rating	Continuous duty at 100% throttle
Ignition	CDIM with backup overspeed protection
Fuel System	Carburetor: Zama® diaphragm carburetor with integrated fuel pump
	Priming: Stand-alone purge bulb – flood-proof
Fuel Tank	For remote fuel tank: SAE 45 or Mercury QC
Fuel Type	Gasoline: Unleaded 87 octane (US) automotive gasoline (max. 10% ethanol)
	Oil: 2-cycle mixing oil, API-TC, JASO FD and ISO-L-EGD (recommendation: Amsoil Saber® Professional Synthetic)
	Mix Ratio: 50:1
Fuel Consumption	At 75% load: 0.92 US gals/hr (3.5 L/hr)
	At 100% load: 1.5 US gals/hr (5.7 L/hr)
Air Intake System	Air filter: Foam, oiled
	Ember separator: USFS 5100-273e approved
Exhaust System	Muffler: Stainless steel. Painted black
	Muffler heat shield: Stainless steel. Painted black. Replaceable
	Spark arrestor: USFS FS-5100-1 approved
Throttle Control	With detents to prevent throttle drift
Manufacturer Warranty	Earlier of 2 years or 100 hours

Pump Specifications

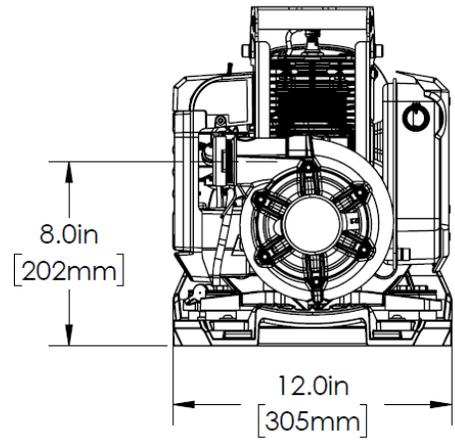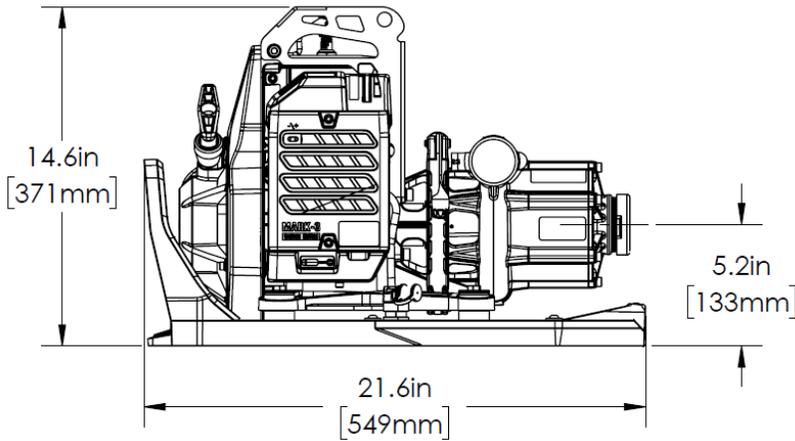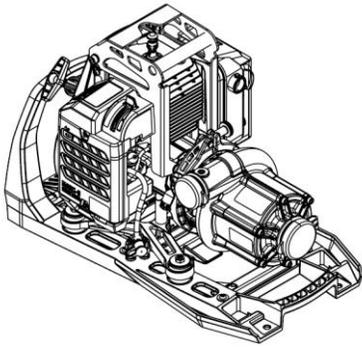|	
Type	Detachable, 4-stage, centrifugal, high-pressure, anodized aluminium, corrosion-resistant composite components (patent pending), foam compatible
Connections	Inlet 2" (51 mm) Male NPSH
	Outlet 1.5" (38 mm) Male NPSH
Pump Clamp	Quick-release lightweight pump clamp
Coupling	Reinforced flexible gear coupling sleeve
Seal	Balanced elastomeric bellows and silicon carbide mechanical rotary seal
Bearing	Maintenance-free 15 mm double row sealed bearing
Carry Frame	Composite with integrated backboard
Carry Handle	Lightweight aluminum painted black
Backpack Straps	Optional: Padded straps with military grade quick release system
Starting System	Recoil starter: Mechanical rewind starter
	Backup starting capability: Manual rope starter backup
User Interface Module	OFF button with multi-color daylight visible LED. Diagnostics and session data logging Overspeed protection Overheat warning Overheat protection Integrated hour meter Integrated tachometer Last engine state indicator Low battery indicator Warm up indicator
Communication	Diagnostics Port Connection USB-C Diagnostics Software WATSON Diagnostic Tool Bluetooth® wireless connection Mobile application MyWATERAX app, IOS and Android
Certifications	USFS 5100-274e & CE/EN 14466:2005+A1:2008

MK3-W

Length 21.6"
(54.9 cm)

Width 12"
(30.5 cm)

Height 14.6"
(37.1 cm)

Dry weight 44 lbs
(20 kg)

14.6in
[371mm]

5.2in
[133mm]

21.6in
[549mm]

8.0in
[202mm]

12.0in
[305mm]

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.