

MK3-ES



DATA SHEET

MARK-3® Essential

The MK3-ES delivers the trusted high-pressure performance of the MARK-3® platform in its simplest and most rugged form. Designed for crews who prioritize durability and straightforward operation, this pump offers fully mechanical reliability with no electronics, no digital interfaces, and nothing unnecessary—just dependable power in any wildland or industrial environment.

Lightweight, compact, and easy to deploy, the MK3-ES is ideal for use as a primary, auxiliary, or industrial-use pump. Its robust construction and tool-free operation make it perfectly suited for wildland firefighters, remote worksites, forestry operations, and emergency water movement applications.

Only the essentials - designed around what truly matters.

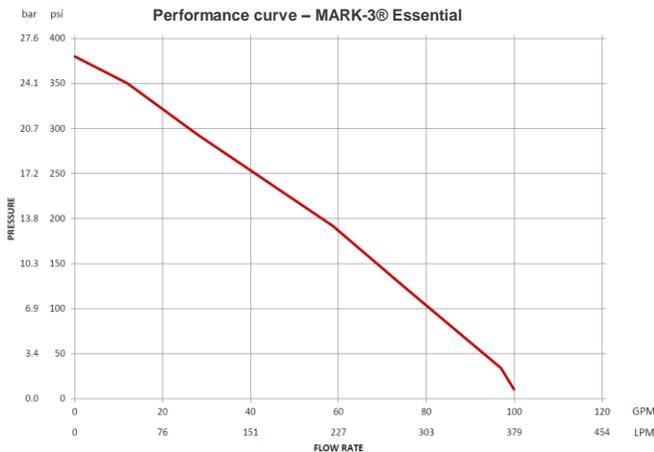
Applications

- 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 engines.
- Optional backpack straps available.

SPECIFICATIONS



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)

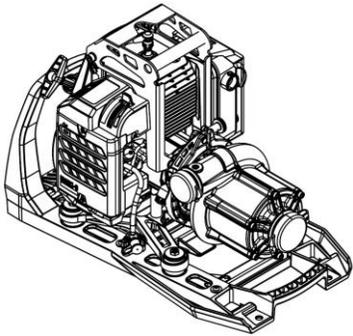
Engine Specifications

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	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 four daylight visible LEDs. Overspeed protection Overheat warning Overheat protection Last engine state indicator Low battery indicator Warm up indicator
Certifications	CE/EN 14466:2005+A1:2008

TECHNICAL DRAWINGS



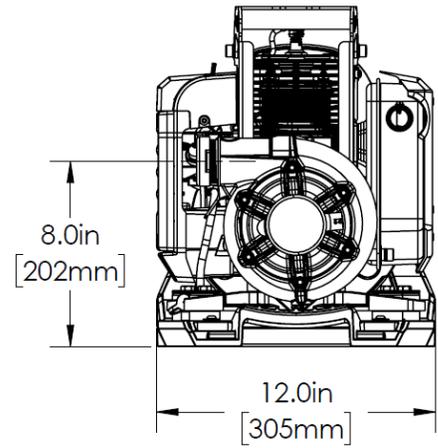
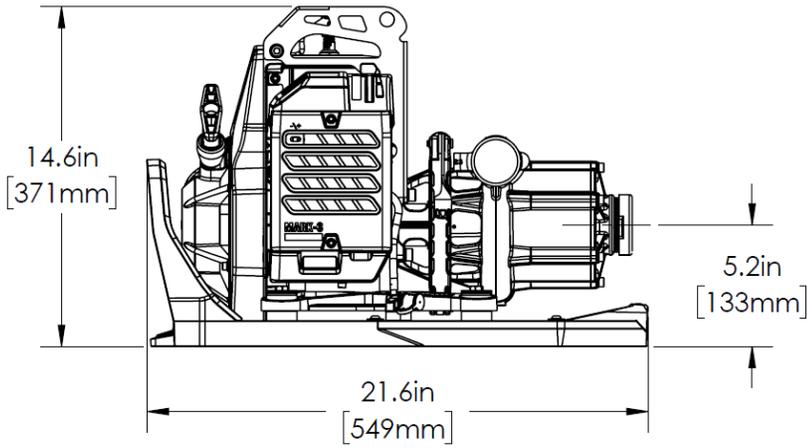
MK3-ES

Length 21.6"
(54.9 cm)

Width 12"
(30.5 cm)

Height 14.6"
(37.1cm)

Dry weight 43 lbs
(19.5 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](#).