



MK3-EWS

DATA SHEET

MARK-3® Essential with Integrated Fuel Tank

The MK3-EWS delivers the trusted high-pressure performance of the MARK-3® platform with the simplicity and durability of a fully mechanical system. Designed for crews who need a dependable, no-nonsense pump, it features an integrated 1 US gallon (3.8 L) fuel tank that delivers up to ~45 minutes of uninterrupted runtime at full throttle - 100% and up to ~65 minutes at 75% throttle. This is ideal for rapid deployment, sustained operations, and field conditions where refueling interruptions are not an option.

Built for versatility, this pump excels as a primary, auxiliary, or industrial-use pump. Its compact format, rugged components, and tool-free operation make it an excellent fit for wildland crews, remote worksites, forestry operations, and emergency water movement tasks.

Only the essentials - designed around what truly matters.

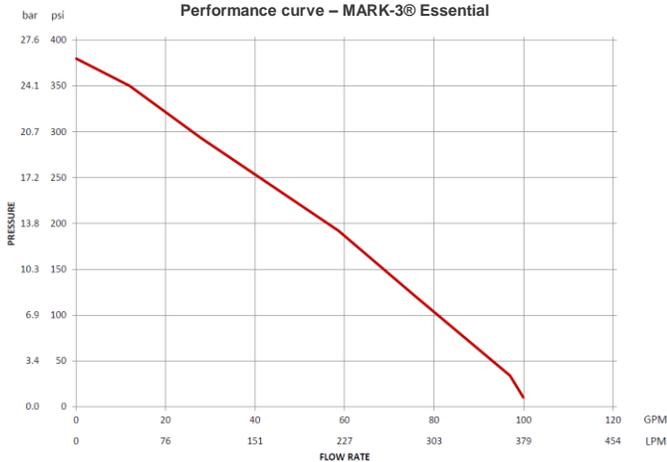
Applications

- 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

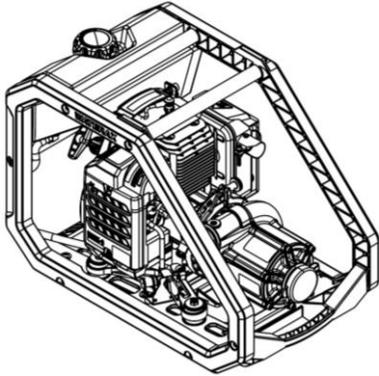
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|------------------------------|--|
| Model & Type | WATERAX 140cc, 2-cycle, air-cooled, Nikasil® coated |
| Displacement | 140 cc |
| Power | 10.7 HP (8 kW) @ 8000 RPM |
| Torque | 7.6 lb-ft (10 Nm) @ 7050 RPM |
| Duty Rating | Continuous duty at 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 | Integrated fuel tank: 1 US gallon (up to ~45-minute run time) For remote fuel tank: 3-way valve w/ 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 | Wrap-around reinforced composite |
| 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-EWS



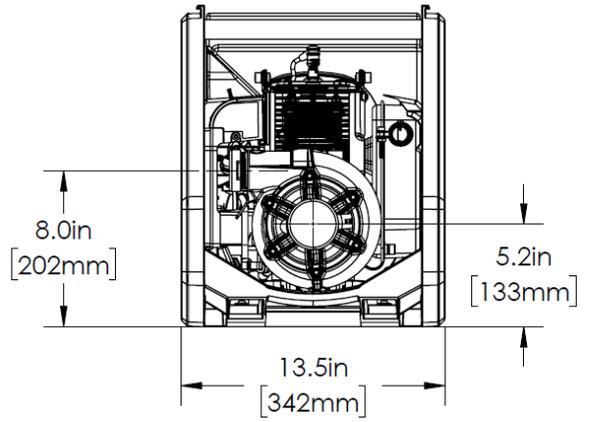
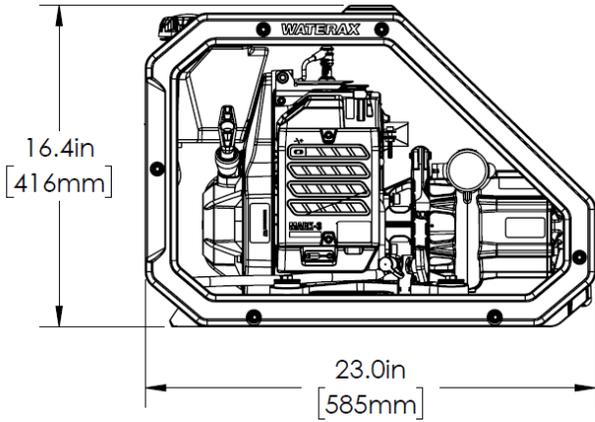
Length 23"
(58.5 cm)

Width 13.5"
(34.2 cm)

Height 16.4"
(41.6 cm)

Dry weight 51.7 lbs
(23.5 kg)

Wet weight 58.1 lbs
(26.4 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](#).