

Light. +
Smart.
Powerful.



WATERAX 
WE MOVE WATER

The Next Generation MARK-3[®] Fire Pump

The **MARK-3[®]** lightweight portable fire pump has been moving water for forestry agencies around the world since 1964.

It quickly became the gold standard for performance, reliability and durability in wildland firefighting operations.

To improve the **MARK-3[®]** pump and update it for the challenges of modern-day wildland firefighting, WATERAX sought the feedback of wildland firefighters.

They challenged WATERAX to cut down size and weight without sacrificing performance and reliability.

While maintaining 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.

*The previous MARK-3[®] fire pump model and its genuine parts will continue to be offered.



20% SMALLER **30%** LIGHTER **100%** MARK-3[®]

A Modern Pump for the Modern Firefighter

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. The **MARK-3**® Watson Edition greatly improves user experience in the following areas:

Mobility

Unit is 30% lighter and 20% smaller.

- Integrated carriage system
- Easy loading / unloading
- Option to backpack engine side up or down
- Integrated carry handle

Safety

Pump design and features to improve firefighter safety.

- Ergonomic carriage system reduces the risk of back injuries
- Padded straps protect shoulders and back from bruising
- Muffler heat shield protects against severe burns
- Lighter pump reduces incidence and severity of slips, trips, falls and transport-related injuries

User-friendliness

Smart, intuitive and easy to use.

- LED visual interface
- Engine operating status
- Troubleshooting function
- Integrated hour meter and tachometer
- High temperature protection

Ease of start

Starting a MARK-3® pump has never been this easy!

- Less force required for easier pull start
- Foothold for improved steadiness
- Engine warm-up indicator
- Anti-flooding feature reduces risk of flooding engine



The Evolution of the Iconic MARK-3®



4-Stage High-Pressure Pump End

Same Performance, Less Weight, More Compact

- 30% smaller impellers
- 50% reduction in pump end weight
- Optimized hydraulic efficiency
- Corrosion-free composite material



High-Performance Engine

Smaller, Quieter, More Powerful

- Unmatched power-to-weight ratio
- Purpose-built
- More power, 30% lighter
- Perfectly optimized for smaller pump end



Modern User Interface

Smart and Intuitive

- Maintenance indicator
- Fuel depletion indicator
- Engine warm-up indicator
- Loss of prime protection (overspeed)
- High temperature protection (overheat)
- Integrated hour meter and tachometer
- USB port for advanced diagnostics
- Bluetooth® connectivity



One-Piece Composite Base Frame

Light, Flexible, and Durable

- Lightweight composite material
- Vibration and shock dampening
- Extended durability
- Foothold for steady pull start
- “Snow shoe” concept for improved grounding in swampy terrain
- More than twice the contact area compared to previous MARK-3® model
- Military-grade Fidlock® quick-release system to instantly remove carrying straps

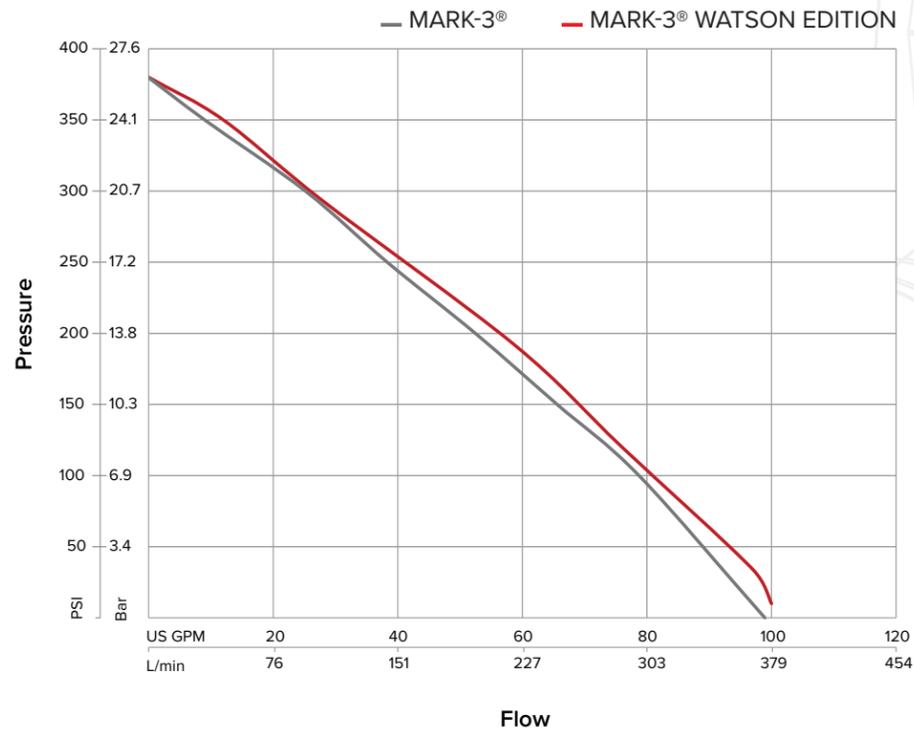
Smart.
Modern User Interface
and Diagnostics



Light.
42 lbs (19 kg)

Powerful.
High-Performance
WATERAX 140cc engine

PERFORMANCE



TECHNICAL SPECIFICATIONS

	MARK-3®	MARK-3® WATSON EDITION
ENGINE	WATERAX 185cc, 2-cycle, air-cooled, Nikasil® coated	WATERAX 140cc, 2-cycle, air-cooled, Nikasil® coated
POWER	10 hp (7.5 kW) @ 5,500 RPM	10.6 hp (7.9 kW) @ 7,700 RPM
TORQUE	8.9 lb-ft (12 Nm) @ 5,000 RPM	7.6 lb-ft (10 Nm) @ 7,050 RPM
EXHAUST SYSTEM	Painted steel muffler with spark arrestor - USDA Forest Service Standard 5100-01	Painted stainless steel muffler with spark arrestor - USDA Forest Service Standard 5100-01
SOUND LEVEL	Does not exceed 90 dBA @ 13 feet	Does not exceed 90 dBA @ 13 feet
MUFFLER HEAT SHIELD	N/A	Painted stainless steel
RECOIL STARTER	Mechanical rewind starter with manual rope starter backup	Mechanical rewind starter with manual rope starter backup
CARBURETOR	Diaphragm carburetor	Diaphragm carburetor
FUEL CONNECTION	Mercury - CAD & INT Model (MK3) SAE Flare 45 - USA Model (MK3-U)	Mercury - CAD & INT Model (MK3W) SAE Flare 45 - USA Mode (MK3W-U)
SPARK PLUG	M18 x 12 mm reach, non-resistor, copper core, nickel electrodes	M14 x 9.5 mm reach, resistor, copper core, nickel electrodes
IGNITION	Ducati CDI capacitive discharge ignition	Prufrex® CDIM capacitive discharge ignition module with overspeed safety cut-off
USER INTERFACE MODULE	Digital overspeed switch (DOS) with integrated OFF button	OFF button with daylight visible LEDs. Prufrex® ESG with overspeed and overheat protection. USB-C connector and Bluetooth® wireless connection
POWER GENERATOR	N/A	Ducati Energia 20 W, 13 V, 1.5 A with voltage regulator module
PUMP END	Detachable 4-stage centrifugal high-pressure	Detachable 4-stage centrifugal high-pressure
PUMP CLAMP	Quick-release lightweight pump clamp	Quick-release lightweight pump clamp
COUPLING	Stratified coupling buffer	Reinforced flexible gear coupling sleeve
VOLUTE & COVER	Anodized aluminum alloy	Anodized aluminum alloy
IMPELLERS	Anodized aluminum alloy	Composite PPS GF reinforced
DIFFUSERS	Anodized aluminum alloy	Composite PPS GF reinforced crossover design with marine grade aluminum vane tips
SEAL	Blister resistant mechanical rotary seal with integrated drive bushing	Balanced elastomeric bellows and silicon carbide mechanical rotary seal
BEARING	Maintenance-free 25 mm double row sealed bearing	Maintenance-free 12 mm double row sealed bearing
BUSHING	Sintered bronze bushing	Sintered bronze bushing
SHAFT	Stainless steel	Stainless steel
CONNECTIONS	Inlet 2" Male NPSH / Outlet 1.5" Male NPSH	Inlet 2" Male NPSH / Outlet 1.5" Male NPSH
BACKPACK FRAME	Steel powder coated grey with optional baseboard	Composite frame with integrated backboard and vibration mounts
STRAPS	Nylon straps	Padded strap with military-grade Fidlock® quick-release system
CARRY HANDLE	N/A	Aluminum powder coated black
DIMENSIONS	L 23 x W 12 x H 16.25" (L 580 x W 307 x H 410 mm)	L 21.6 x W 12 x H 14" (L 549 x W 305 x H 356 mm)
DRY WEIGHT	58.3 lbs (26.4 kg)	42 lbs (19 kg)
LUBRICATION	Fuel mix ratio: 50:1 (gasoline to oil)	Fuel mix ratio: 50:1 (gasoline to oil)
FUEL TYPE	Gasoline: unleaded 87 octane automotive gasoline (maximum 10% ethanol) Oil: 2-cycle mixing oil with API-TC, JASO FD and ISO-L-EGD certification (Amsoil Saber® Professional Synthetic)	Gasoline: unleaded 87 octane automotive gasoline (maximum 10% ethanol) Oil: 2-cycle mixing oil with API-TC, JASO FD and ISO-L-EGD certification (Amsoil Saber® Professional Synthetic)
FUEL CONSUMPTION	1.5 US gals/hr (5.7 L/hr)	1.5 US gals/hr (5.7 L/hr)
MAX HEAD	877' (267 m)	877' (267 m)
MAX PRESSURE	380 PSI (26.2 Bar)	380 PSI (26.2 Bar)
MAX FLOW	98 US gals/min (371 L/min)	100 US gals/min (379 L/min)

MARK-3®				
Flow			Pressure	
US GPM	L/min		PSI	Bar
78	295	@	100	6.9
65	246	@	150	10.3
38	144	@	250	17.2

MARK-3® WATSON EDITION				
Flow			Pressure	
US GPM	L/min		PSI	Bar
80	303	@	100	6.9
70	265	@	150	10.3
40	151	@	250	17.2

Max Head 877' (267 m)
Max Pressure 380 PSI (26.2 Bar)
Max Flow 98 US gals/min (371 L/min)

Max Head 877' (267 m)
Max Pressure 380 PSI (26.2 Bar)
Max Flow 100 US gals/min (379 L/min)

All product functions, specifications and data are subject to change without notice.

MARK-3®



- Weight: 58.3 Lbs (26.4kg)

MARK-3® Watson Edition



- Weight: 42 lbs (19 kg)



Your trusted partner

Trusted by wildland firefighters around the world, WATERAX sets the industry standard by developing innovative, portable fire pumps and water-handling equipment designed to withstand demanding applications and rugged environments. With a time-tested legacy of reliability, WATERAX carries on its mission to place powerful, precision-engineered pumps into the hands of the men and women who need to move water to protect our lives and property from the ravages of wildfires.

Send us an email or contact the WATERAX representative in your country to learn more and schedule a demonstration of the MARK-3® Watson Edition.

MARK-3®
WATSON EDITION



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WATERAX 
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