

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.



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
- 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)
- USB port for advanced diagnostics
- Bluetooth® connectivity



## 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 (Item No. 701798)



## Powerful.

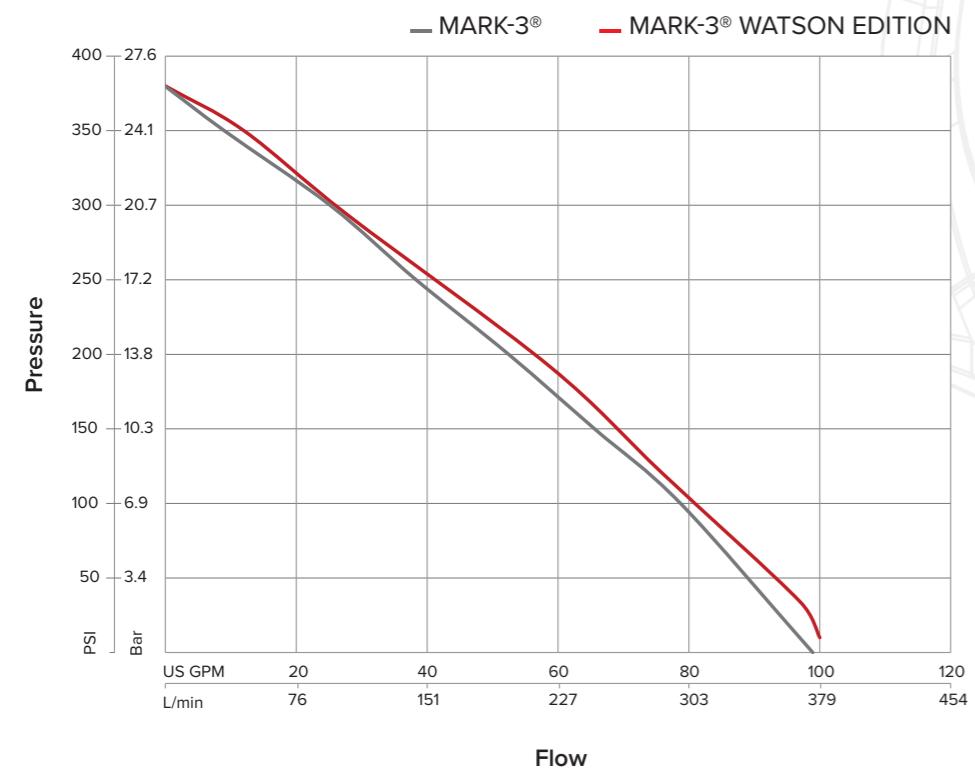
High-Performance  
WATERAX 140cc engine

## Light.

20 kg (44 lbs)

Item No.: 100137

# PERFORMANCE



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	

**Max Head** 267 m (877')  
**Max Pressure** 26.2 bar (380 PSI)  
**Max Flow** 371 L/min (98 US GPM)

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** 267 m (877')  
**Max Pressure** 26.2 bar (380 PSI)  
**Max Flow** 379 L/min (100 US GPM)



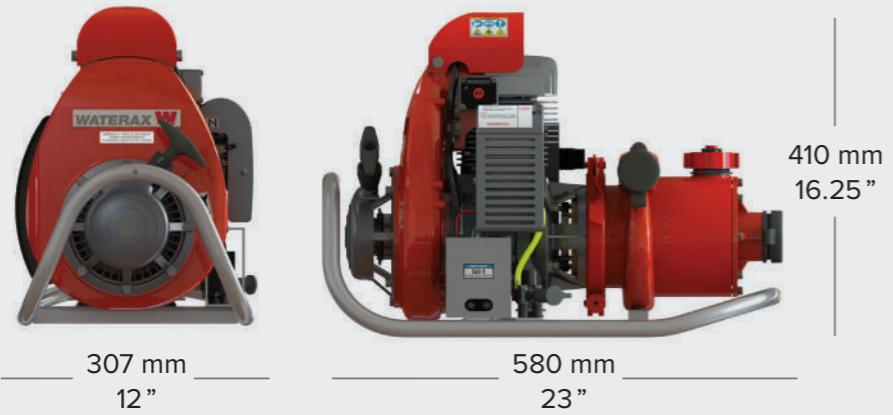


## TECHNICAL SPECIFICATIONS

MARK-3®	MARK-3® WATSON EDITION
ENGINE	WATERAX 185cc, 2-cycle, air-cooled, Nikasil® coated
POWER	7.5 kW (10 hp) @ 5,500 RPM
TORQUE	12 Nm (8.9 lb-ft) @ 5,000 RPM
EXHAUST SYSTEM	Painted steel muffler with spark arrestor - USDA Forest Service Standard 5100-01
SOUND LEVEL	Does not exceed 90 dBA @ 13 feet
MUFFLER HEAT SHIELD	N/A
RECOIL STARTER	Mechanical rewind starter with manual rope starter backup
CARBURETOR	Diaphragm carburetor
FUEL CONNECTION	Mercury - CAD & INT Model (MK3) SAE Flare 45 - USA Model (MK3-U)
SPARK PLUG	M18 x 12 mm reach, non-resistor, copper core, nickel electrodes
IGNITION	Ducati CDI capacitive discharge ignition
USER INTERFACE MODULE	Digital overspeed switch (DOS) with integrated OFF button
POWER GENERATOR	N/A
PUMP END	Detachable 4-stage centrifugal high-pressure
PUMP CLAMP	Quick-release lightweight pump clamp
COUPLING	Stratified coupling buffer
VOLUTE & COVER	Anodized aluminum alloy
IMPELLERS	Anodized aluminum alloy
DIFFUSERS	Anodized aluminum alloy
SEAL	Blister resistant mechanical rotary seal with integrated drive bushing
BEARING	Maintenance-free 25 mm double row sealed bearing
BUSHING	Sintered bronze bushing
SHAFT	Stainless steel
CONNECTIONS	Inlet 51 mm (2") Male NPSH / Outlet 38 mm (1.5") Male NPSH
BACKPACK FRAME	Steel powder coated grey with optional baseboard
STRAPS	Nylon straps (Optional)
CARRY HANDLE	N/A
DIMENSIONS	L 580 x W 307 x H 410 mm (L 23 x W 12 x H 16.25")
DRY WEIGHT	26.4 kg (58.3 lbs)
LUBRICATION	Fuel mix ratio: 50:1 (gasoline to oil)
FUEL TYPE	<b>Gasoline:</b> unleaded 87 octane automotive gasoline (maximum 10% ethanol) <b>Oil:</b> 2-cycle mixing oil with API-TC, JASO FD and ISO-L-EGD certification (Amsoil Saber® Professional Synthetic)
FUEL CONSUMPTION	5.7 L/hr (1.5 US GPH)
MAX HEAD	267 m (877')
MAX PRESSURE	26.2 bar (380 PSI)
MAX FLOW	371 L/min (98 US GPM)
	5.7 L/hr (1.5 US GPH)
	267 m (877')
	26.2 bar (380 PSI)
	379 L/min (100 US GPM)

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

## MARK-3®



- Weight: 26.4 kg (58.3 lbs)

## MARK-3® Watson Edition



- Weight: 20 kg (44 lbs)



# 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<sup>MD</sup>**  
ÉDITION WATSON



[INFO@WATERAX.COM](mailto:INFO@WATERAX.COM)  
[WATERAX.COM](http://WATERAX.COM)  
[WATSON.WATERAX.COM](http://WATSON.WATERAX.COM)  
© 2023 WATERAX INC

**WATERAX**   
**WE MOVE WATER**