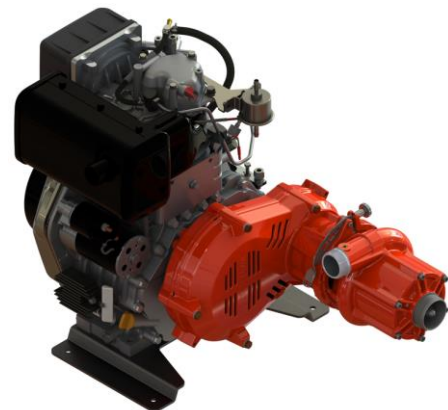


## STR4-DY10 DIESEL VEHICLE



### DATA SHEET

## HIGH-PRESSURE 4-STAGE FIRE PUMP

The **WATERAX STRIKER-4-DIESEL VEHICLE** combines a reliable YANMAR L100 diesel engine, producing 9.3 hp (6.8 kW), with the innovative, lightweight and highly efficient MARK-3® Watson Edition 4-stage pump end to deliver exceptional performance. The unit achieves pressures of up to 310 PSI (21.4 BAR) and flow rates reaching 112 US GPM (424 LPM). It produces an impressive 85 US GPM (322 LPM) at 100 psi (14.5 BAR).

Strong enough to operate as a source pump for tandem and parallel pumping, it is also optimal for direct attack firefighting, remote watering, sprinkler systems and is a popular choice for slip-on units.

The pump is fully compatible with the DCP, supporting both single and dual control panel configurations. The engine speed can be controlled via the DCP using a linear throttle actuator.

The **WATERAX** quick release clamp provided on the pump lets you replace a damaged pump end in the field with minimal equipment downtime. The 4-stage pump end is identical to the pump end on the **MARK-3® Watson Edition** unit, which greatly reduces your spare parts inventory and improves your ability to respond to unforeseen equipment damage.

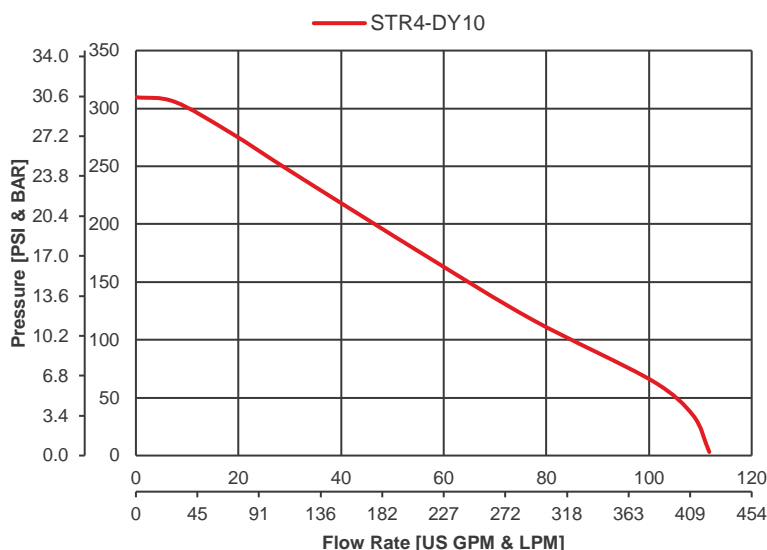
### Applications

- Attack line firefighting
- Long hose lay for remote watering during firefighting operations
- High elevation firefighting in mountainous areas
- Accuracy in flow trajectory when structure fire fighting
- Tandem pumping over long distances
- Parallel pumping for higher volumes
- Slip-on units

### Features and Benefits

- Quick release clamp and swappable pump ends for minimal equipment downtime and inventory
- Belt drive system for reliable, low maintenance performance
- Aluminum alloy volute and suction cover for light weight and greater resistance to corrosion
- Composite corrosion-resistant pump components
- Sealed bearing to eliminate pump end greasing in the field
- Victaulic adaptors included
- Low oil pressure switch included
- External mount fuel pump included
- Vibration dampeners included
- Optional single control panel and dual control panel with remote throttle control
- EPA & CARB exhaust emission compliant
- Application matched and approved by YANMAR

## SPECIFICATIONS



### Flow rate at specified pressure

Maximum pressure: 310 PSI (21.4 bar)  
 Free Flow: 112 US gals/min (424 L/min)  
 Maximum head: 716' (218 m)

Flow Rate			Pressure	
US GPM	(LPM)	@	PSI	(BAR)
85	(322)	@	100	(6.9)
65	(246)	@	150	(10.3)
28	(106)	@	250	(17.2)

Engine: Yanmar L100 – 9.3 HP



## Engine Specifications

<b>Model &amp; Type</b>	Yanmar L100 4-Stroke, single cylinder & air cooled.
<b>Maximum power</b>	9.3 hp (6.8 kW) @ 3,600 rpm
<b>Maximum torque</b>	18.3 lb-ft (24.8 Nm) @ 2,000 rpm
<b>Bore &amp; Stroke</b>	3.39 x 2.95 inches (86 x 75 mm)
<b>Displacement</b>	435 cc (26.5 cu in)
<b>Compression Ratio</b>	19:1
<b>Cooling</b>	Air cooled
<b>Governor</b>	Mechanical
<b>Starting system</b>	Recoil starter and electric start
<b>Ignition</b>	Compression ignition system
<b>Lubrication</b>	Forced lubricating system Engine oil meeting or exceeding SAE 10W-30, API CJ-4, ACEA E6 or JASO DH-2
<b>Oil Capacity</b>	1.7 quarts (1.6 liters)
<b>Battery Capacity</b>	12 Volt, 36 Amp-Hour or equivalent
<b>Fuel type</b>	Diesel
<b>Fuel tank capacity</b>	No integral fuel tank
<b>Fuel consumption</b>	0.57 US gals/hr (2.2 L/hr)

## Pump Specifications

<b>Type</b>	4-stage, centrifugal pump
<b>Type</b>	4-stage, centrifugal pump
<b>Drive</b>	Reinforced flexible gear coupling
<b>Maximum allowable pressure</b>	600 PSI (41.4 bar)
<b>Maximum pressure</b>	310 PSI (21.4 bar)
<b>Maximum flow</b>	112 GPM (424 lpm)
<b>Intake</b>	2" (51 mm) NPT / Victaulic
<b>Discharge</b>	1-1/2" (38 mm) NPSH / Victaulic
<b>Volute and suction cover</b>	Foam compatible, lightweight anodized aluminum alloy
<b>Impeller</b>	Composite corrosion resistant
<b>Seal</b>	Balanced elastomeric bellows and silicon carbide mechanical rotary seal
<b>Seal Bearing</b>	Balanced elastomeric bellows and silicon carbide mechanical rotary seal Maintenance-free 15 mm double row sealed bearing
<b>Pump shaft</b>	Stainless steel

## SPECIFICATIONS

### Primer Specifications:

#### Hand Primer Option

<b>Intake and Discharge Port Size</b>	1/2" Female NPT
<b>Construction</b>	Aluminum Handle, composite body, buna-n reinforced diaphragm and flapper valves
<b>Lift</b>	12 feet (3.7 m) [up to approximately 16 feet (4.8 m) with suction hose foot valve]
<b>Head Capacity</b>	30 ft (9.1 m)
<b>Maximum Pressure</b>	15 PSI (1.03 bar)
<b>Maximum Service Temp</b>	150° F (66° C)
<b>Volume per Stroke</b>	0.44 quart (0.42 liter)
<b>Dimensions (L x W x H)</b>	12-3/4" x 4-1/2" x 4-5/16" (324 x 114 x 110 mm)
<b>Weight</b>	1.70 lbs (0.77 kg)

#### Electric Primer Option

	12 VDC Piston Type Vacuum Pump
<b>Intake and Discharge Port Size</b>	3/8" Female NPT
<b>Construction</b>	Corrosion Resistant Aluminum with Bronze Sleeve and Composite Piston
<b>Max. Current Draw</b>	105 amps
<b>Lift</b>	25 feet (7.6 m)
<b>Vacuum</b>	22 in-Hg
<b>Dimensions</b>	9" x 4-1/8" x 7-1/2" (229 x 105 x 191 mm)
<b>Weight</b>	8.1 lbs (3.7 kg)
<b>Vehicle Units</b>	Shipped loose with mounting plate, hardware, and 6 feet of hose.

### Frame Specifications:

<b>Vehicle Mount</b>	Black bent sheet metal base. (Provided with industrial grade stud isolators – shipped loose)
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### Controls Specifications:

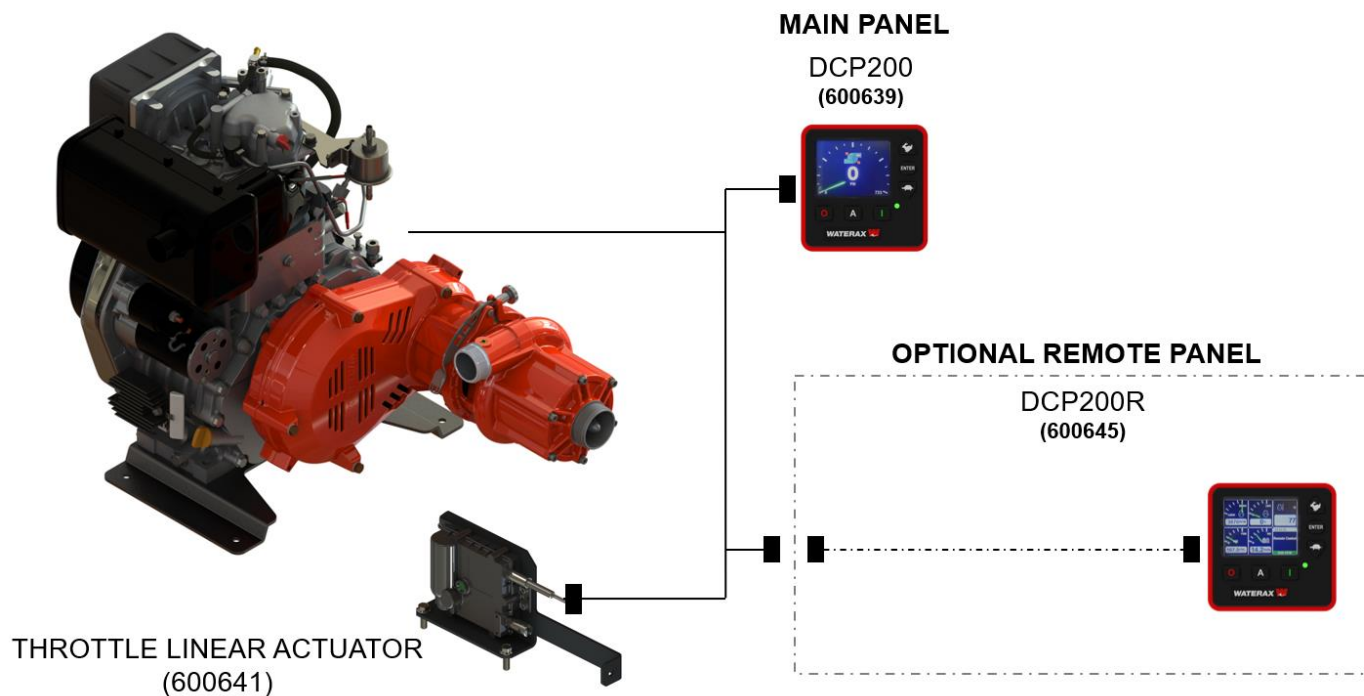
<b>Engine supplied controls</b>	Throttle Lever with locking knob.
<b>Digital Control Panel</b>	Digital Control Panel DCP200 with push buttons ( <i>OFF</i> to turn Off Engine, <i>Enter</i> to cycle display screen menu, <i>Armed</i> to enables RUN Function, <i>Run</i> to start the engine, <i>Rabbit</i> and <i>Turtle</i> to move the throttle up and down), a LED indicator (becomes red when there is an error) and a 4 inch LCD screen displaying parameters; RPM, Throttle Position, Pump Pressure, Hour Meter, Battery Voltage and Current Status. Low Water Pressure Protection and Low Oil Warning safety features are integrated in the panel.  Can seamlessly add a secondary panel (DCP200R) for remote/in-cab panel operation.
<b>FastWire Quick connect</b>	Loomed engine wire harness (pre-wired to engine). All vehicle Mounted STRIKER pumps are equipped with FastWire quick connect engine wire harness for plug & play ease in connecting pump and control panels.

## CONTROL PANELS

### Digital Control Panel – DCP200 (600639)

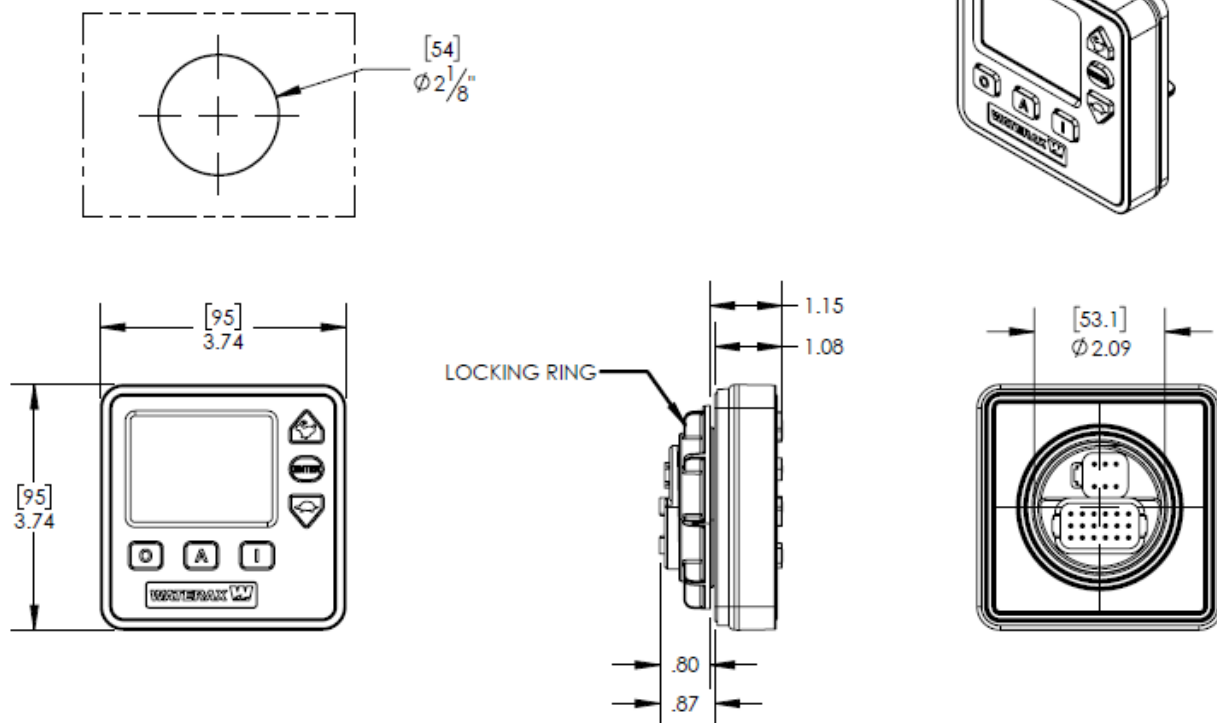


### Single or Dual Control Panel Configuration



## DCP200

### REQUIRED PANEL CUT OUT:



## Options & Accessories

**Sold Separately**



### GZPRIMERKIT

Guzzler Hand Primer with hose & valve



### EPRIMERKIT

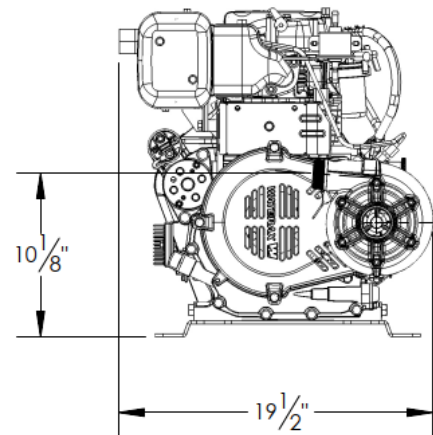
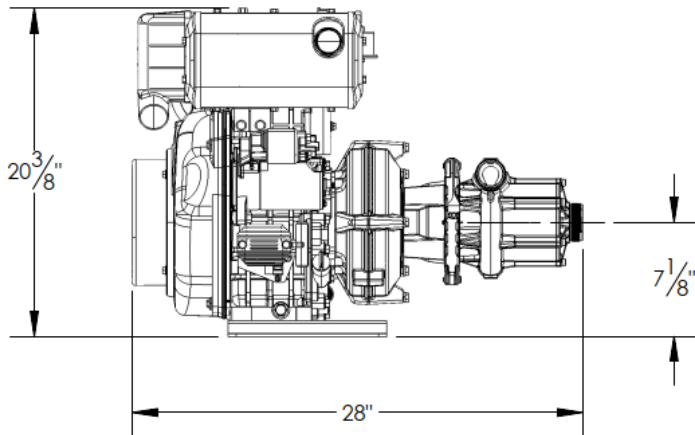
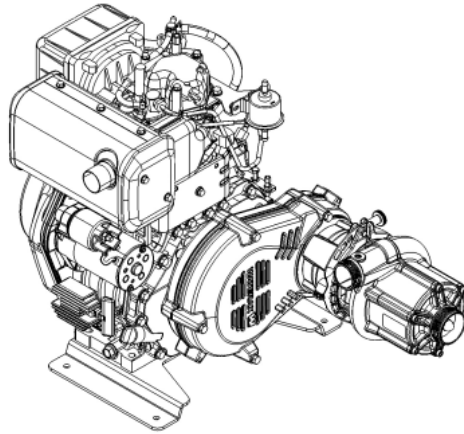
Electric Primer with plate, 5' harness & switch



### B-6365

Check Valve Manifold 1-1/2 NPSH

## TECHNICAL DRAWINGS



**Length 28.00"** (71.1 cm)

**Width 19.5"** (49.5 cm)

**Height 20.38"** (51.8 cm)

**Weight 160 lbs** (72.6 kg)

# **WATERAX**

All information contained in this document including drawings is proprietary to *WATERAX* and may not be copied, reproduced or used in whole or in part without our prior written permission. The information in this document is subject to change without notice. Model displayed with multiple options. Weight and dimensions are approximated and may vary depending on options.

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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](#).