

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.

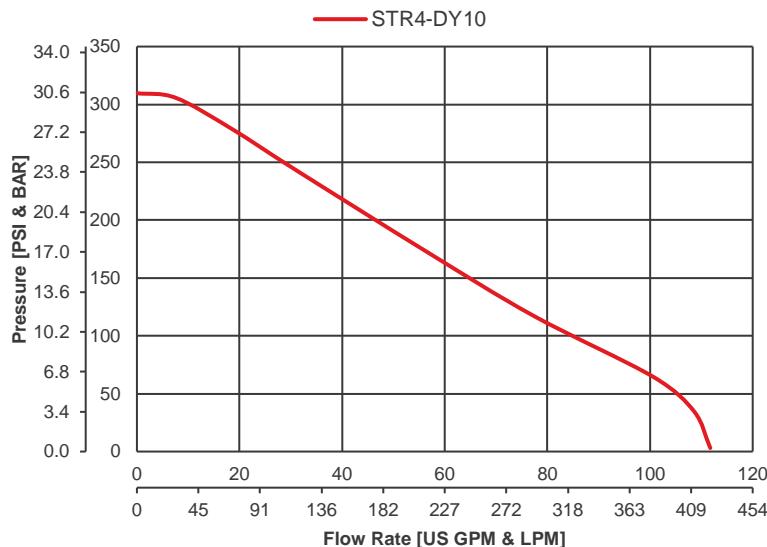
Applications

- 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)

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

Engine: Yanmar L100 – 9.3 HP



Engine Specifications

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

Pump Specifications

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

SPECIFICATIONS

Primer Specifications:

Hand Primer Option	Guzzler, Diaphragm Type; Reliable, Lightweight and Rugged
Intake and Discharge Port Size	½" Female NPT
Construction	Aluminum Handle, composite body, buna-n reinforced diaphragm and flapper valves
Lift	12 feet (3.7 m) [up to approximately 16 feet (4.8 m) with suction hose foot valve]
Head Capacity	30 ft (9.1 m)
Maximum Pressure	15 PSI (1.03 bar)
Maximum Service Temp	150° F (66° C)
Volume per Stroke	0.44 quart (0.42 liter)
Dimensions (L x W x H)	12-3/4" x 4-1/2" x 4-5/16" (324 x 114 x 110 mm)
Weight	1.70 lbs (0.77 kg)

Electric Primer Option

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

Frame Specifications:

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

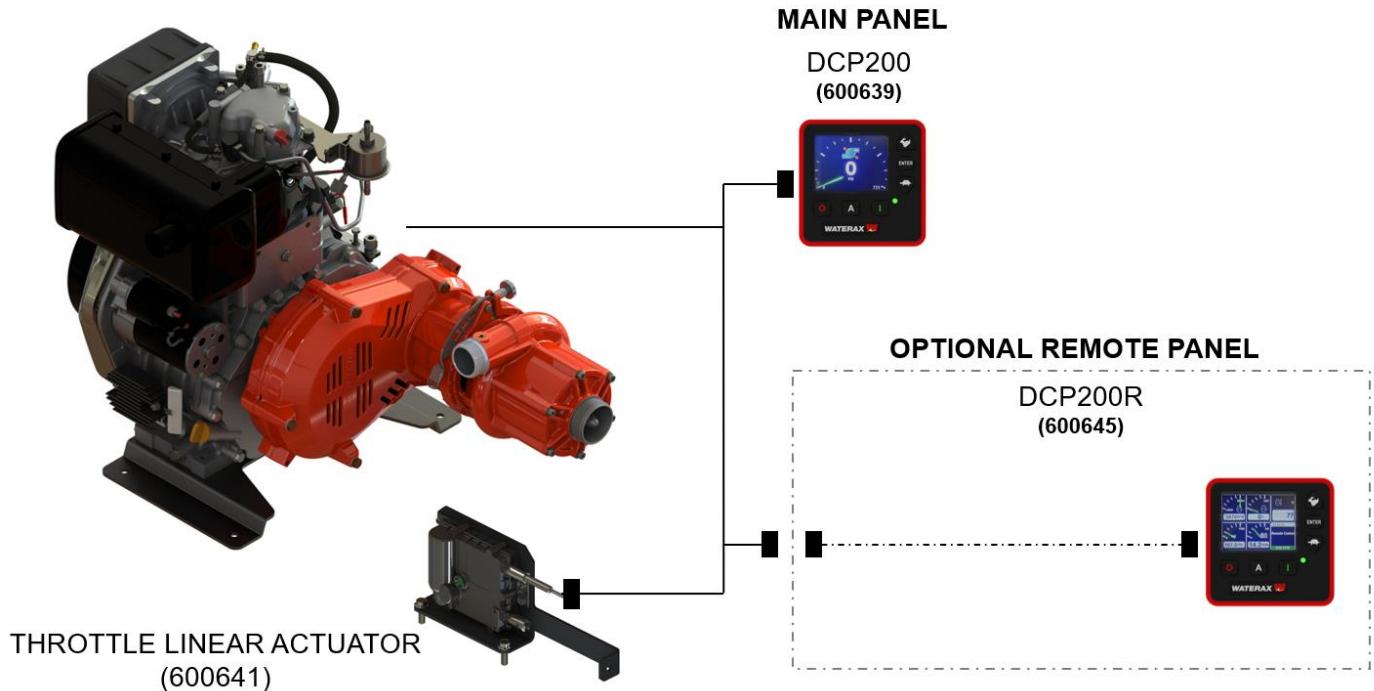
Engine supplied controls	Throttle Lever with locking knob.
Digital Control Panel	Digital Control Panel DCP200 with push buttons (OFF to turn Off Engine, Enter to cycle display screen menu, Armed to enables RUN Function, Run to start the engine, Rabbit and Turtle to move the throttle up and down), a LED 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.
FastWire Quick connect	Can seamlessly add a secondary panel (DCP200R) for remote/in-cab panel operation. 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)

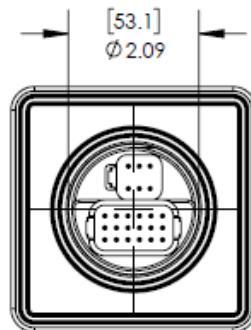
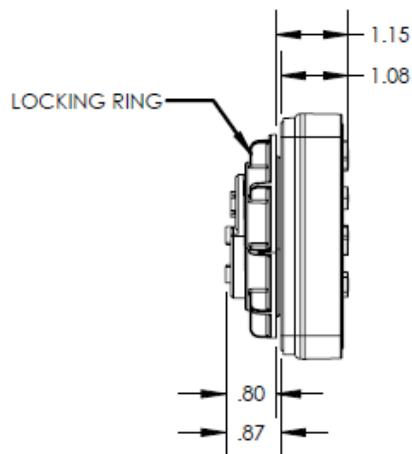
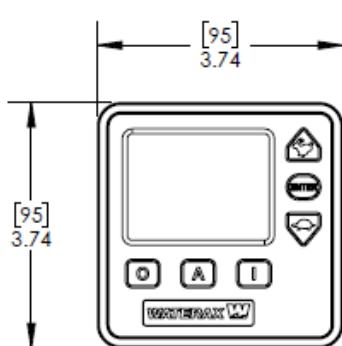
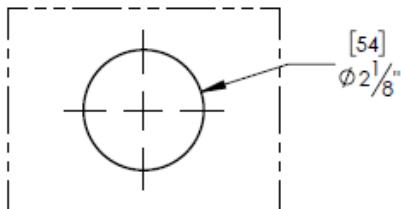


Single or Dual Control Panel Configuration



DCP200

REQUIRED PANEL CUT OUT:



Options & Accessories

Sold Separately



GZPRIMERKIT
Guzzler Hand Primer with hose & valve

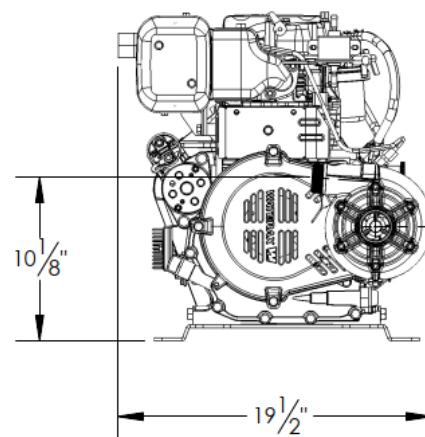
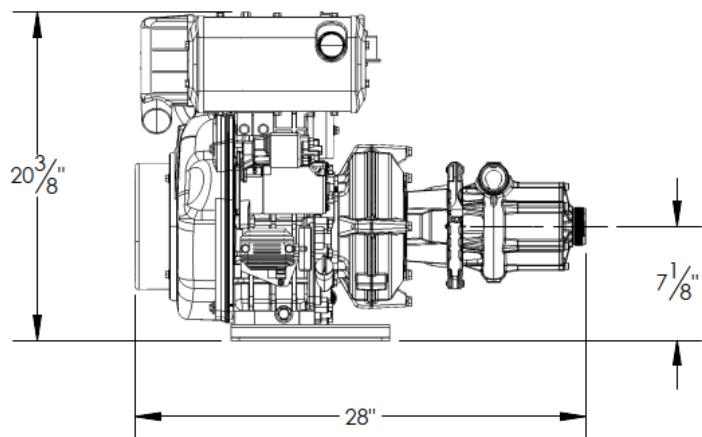
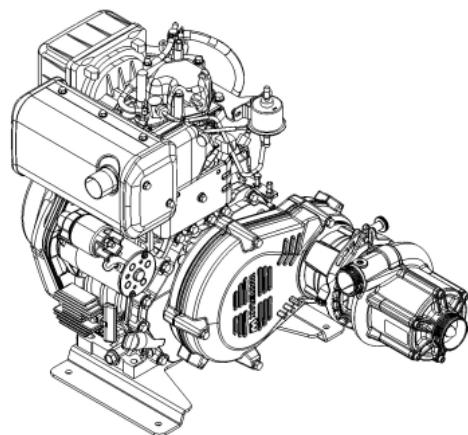


EPRIMERKIT
Electric Primer with plate, 5" harness & switch



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

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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.