



Specialized Pump Capabilities for Specialized Attack Vehicles

The Waterous E500 Series Motor Pump is specifically designed for mounting on specialized attack vehicles. This diesel-powered motor pump combines the muscle of Waterous vehicle-mounted pumps with the convenience of their own power source. Available in two performance models, the E501 or the E511.

- **E501-A High-Pressure Model:** Flows up to 50 GPM @ 400 PSI (190 L/min @ 28 bar) and 110 GPM @ 100 PSI (420 L/min @ 7 bar).
- **E511-A High-Capacity Model:** Flows 100 GPM @ 190 PSI (380 L/min @ 13 bar) and 275 GPM @ 50 PSI (1140 L/min @ 3.5 bar).



Pump Specifications:

Intake:

E501-A: 2 inch female NPT

E511-A: 3 inch female NPT

(Optional 3 in. Victaulic adapter)

Discharge:

E501-A: 1-1/2 inch female NPT

E511-A: 2 inch female NPT

(Optional 2 in. Victaulic adapter)

Volute Body And Head:

High-strength aluminum alloy protected by a proprietary dual anodizing and sealing process for superior corrosion protection and resistance to acids and alkaline solutions.

Impeller:

High-strength, corrosion-resistant bronze, fully enclosed, double-hubbed to balance hydraulic thrust, mechanically balanced to eliminate vibration.

Impeller Shaft:

Integral driven gear and shaft made of hardened steel, nickel-plated for wear and corrosion resistance.

Wear Rings:

Long wearing bronze. Easy to replace when required to restore original pump efficiency.

Drive Shaft and Gear:

High-strength stainless steel shaft and a heat-treated ductile iron gear.

Shaft Seal:

Spring-loaded mechanical type. Wear and heat resistant silicon-carbide.

Gear Case:

Two-gear speed increaser utilizing high-strength aluminum alloy case. Helical cut gears for reduced wear and noise and anti-friction bearings throughout.

Engine Specifications:

Engine:

Briggs & Stratton, model DM 950D, Vanquard in-line 3 cylinder, water-cooled, overhead valve (OHV) delivering a maximum output of 26.5 hp (19.8 kw) @ 3600 RPM, 58.1 cu. in. (952 cc) displacement, 4-cycle, diesel fueled

Lubrication:

Pressure feed with spin-on filter.

Starter:

12-volt electric

Alternator:

12-14 volt, 40 A

Options and Accessories:

Priming System:

The priming system consists of either a Waterous' hand or electric primer shipped loose for remote mounting.

Exhaust System:

- Spark Arrestor

Control Panel:

The following control panels are available for the E500:
Three Options Available:

- Single Municipal Panel
- Dual Municipal (Includes an In-Cab Panel)
- Deluxe Panel

Industry-Leading Sales and Support

When you purchase Waterous equipment, not only do you get quality products, you get quality service. Our expert service technicians are the best in the business and they are always happy to answer any service questions you might have.

Sales/Applications Assistance

Phone: 651-450-5234 (Press 3)
pumpsales@waterousco.com

Service Assistance

Phone: 651-450-5200
Fax: 800-488-1228
service@waterousco.com

SPECIFICATIONS – MOTOR PUMPS: E500 SERIES

Dimensions and Weights

Model	Length (in/cm)	Width (in/cm)	Height* (in/cm) (Less Muffler)	Weight (lb/kg)
E501-A	33.84 (86.0)	20.67 (52.5)	24.35 (61.9)	265 (120)
E511-A	34.73 (88.2)	20.67 (52.5)	24.35 (61.9)	250 (113)

* Does not include height of muffler.

Performance Curves

