

ENERPAC 

ZU4 Electric Torque Wrench Pumps



ENERPAC[®]
INDUSTRIAL TOOLS

Z Tough.
Dependable.
Innovative.
ZCLASS

High-pressure pumps
designed specifically for
bolting applications.

Introducing the *Z-Class* power pumps from Enerpac—pumps that run cooler, use less electricity and are easy to service.

Enerpac has used the latest metallurgical, bearing and seal technologies to produce a pump whose features and benefits far surpass the electric pumps that are available today. By reducing the number of moving parts, improving flow dynamics and decreasing friction, *Z-Class* pumps will stay on the job longer, require less energy to operate and when needed, have lower service costs.

Z-Class electric pumps from Enerpac—simply the best pump you will ever use.



An Innovation in Pump Design

Z-Class Pumping Element

Highly efficient design provides increased flow rates, reduced heat generation and a decrease in power consumption. This means improved tool speed and increased service life—which results in higher productivity and lower operating costs.

Heavy-duty bearings extend pump life by reducing friction, reducing surface-loading and lowering bearing stresses.

Pump cavity oil bath extends pump life by reducing heat, improving lubrication and reducing wear.

Self-priming, high-flow 1st stage pump increases pump performance by super-charging the 2nd stage piston pump—improving oil flow in both hot and cold weather operation.

Balanced rotating components reduce vibration creating a smoother running pump—reducing wear, friction and sound levels.

Replaceable piston check-valves increase service life of major pump components.

ZU4 Electric Pumps

Heavy-duty composite shroud protects electric motor and key electrical components from environmental contamination, rain and debris and provides a non-conductive ergonomic handle for the operator.

Low-voltage pendant features sealed switches and operates at 15 vdc for improved operator safety.

Easily accessible brush cavity allows rapid brush replacement in the field.

Brush design lasts 4-times longer than current designs and features “auto-stop” shunt to prevent commutator damage from normal brush wear.

Reduced current draw extends brush life and reduces electrical load on electrical circuits and generators.



Back-lit LCD

- pressure read-out
- pump usage information, hour and cycle counts
- low-voltage warning and recording
- offers self-test and diagnostic capabilities
- information displayed in 6 languages
- auto cycle

▼ Shown ZU4204TB-EHK:



- Features **Z-Class** high-efficiency pump design; higher oil flow and bypass pressure, cooler running and requires 18% less current draw than comparable pumps
- Powerful 1.7 hp universal electric motor provides high power-to-weight ratio and excellent low-voltage operating characteristics
- High-strength, molded composite shroud protects motor and electronics, while providing an ergonomic, non-conductive handle for easy transport
- Low-voltage pendant provides additional safety for the operator (remote control units)
- LCD readout provides pressure display and a number of diagnostic and readout capabilities never before offered on a portable electric pump
- Auto cycle feature provides continuous cycle operation of the torque wrench as long as the advance button is pressed. (Pump can be used with or without auto cycle feature).



◀ The ZU4 torque wrench pumps are perfectly matched for this SQD-100-I wrench.

Z

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Optimum Torque Wrench and Pump Combinations

For optimum speed and performance, ENERPAC recommends the following pump and wrench combinations:

Torque Wrench Model		Pump Model No.
SQD	HXD	
75-I - 270-I	60-240	ZU4204TB-EH
(Approximately 3,500 ft.-lbs. or more)		



4-Wrench Manifold

For applications requiring the simultaneous operation of multiple wrenches, your ZU4 Torque Wrench pump can be equipped with the optional 4-wrench manifold.

ZTM-U4E Enerpac lock-ring safety couplers (shown)

ZTM-U4Q Parker spin-on couplers (with reversed polarization of couplers)

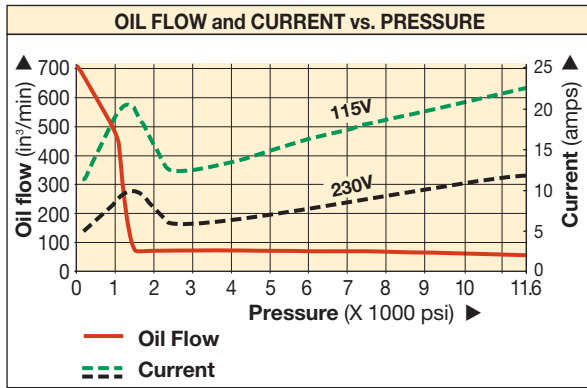
▼ COMMON PUMP MODELS

For technical information and other options see next page.

Solenoid Valve

- Ideal for bolting applications that require remote pump and valve operation
- Motor on/off and valve control in pendant. Pressing up arrow advances wrench, releasing up arrow retracts wrench. (Auto cycle off)
- Low-voltage control pendant with 20 ft. cord provides remote motor and valve operation

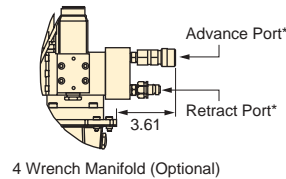
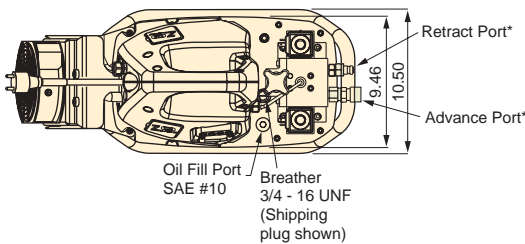
ZU4 Electric Torque Wrench Pumps



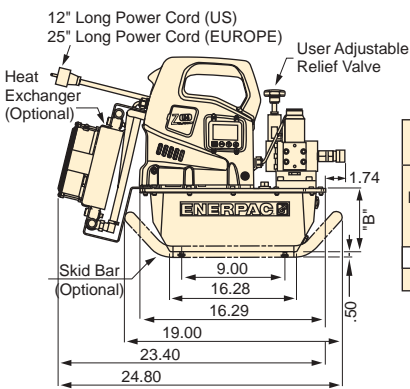
ZU4 Performance							
Motor Size (hp)	Output Flow Rate (in ³ /min)				Motor Electrical Specification (volts-ph-Hz)	Sound Level (dBA)	Relief Valve Adjustment Range (psi)
	100 psi	700 psi	5,000 psi	10,000 psi			
1.7	700	535	76	60	115-1-50/60 230-1-50/60	85-90	1,800-11,600*

* Pump type (-E) shown, (-Q) range is 1,800 - 10,000 psi

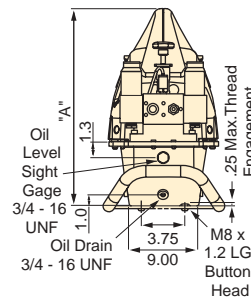
Dimensions shown in inches.



* Enerpac (-E) Coupler Polarization Shown, Generic (-Q) Opposite



Pump Dimensions		
Usable Reservoir Capacity (gal)	A (in)	B (in)
1.0	17.0	5.6
2.0	19.5	8.0



ZU4 Series



Reservoir Capacity:

1.0-2.0 gal.

Flow at Rated Pressure:

60 in³/min.

Motor Size:

1.7 hp

Maximum Operating Pressure:

10,000 & 11,600 psi



Pump Type Specification

(-E) or (-Q) is required when ordering your pump, to specify operating pressure

- E For use with standard Enerpac SQD and HXD wrenches, 11,600 psi operating pressure and polarized locking safety couplers
- Q For use 10,000 psi torques wrenches, includes Parker spin-on couplers



Accessory Options

Available by placing the following suffix at the model number end:

- H = Heat Exchanger
- K = Skid Bar
- M = 4-wrench manifold



Ordering Example

Model Number: ZU4204TB-EHK

This is an 11,600 psi pump, for Enerpac's HXD/SQD wrenches, 115 VAC motor, 1 gallon reservoir, optional heat exchanger and skidbar installed.

Pump Type	Used with Wrench Type	Valve Function	Valve Type	Pump Control	Usable Oil Capacity (gal)	Model Number ¹⁾ LCD Electric	Motor Voltage	Weight with oil ⁴⁾
	Double acting	Advance/Retract	TW	Remote	1.0	ZU4204TB-E	115 vac, 1-ph	70
	Double acting	Advance/Retract	TW	Remote	2.0	ZU4208TB-E	115 vac, 1-ph	80
	Double acting	Advance/Retract	TW	Remote	1.0	ZU4204TE-E ²⁾	208-240 vac, 1-ph	70
	Double acting	Advance/Retract	TW	Remote	2.0	ZU4208TE-E ²⁾	208-240 vac, 1-ph	80
	Double acting	Advance/Retract	TW	Remote	1.0	ZU4204TI-E ³⁾	208-240 vac, 1-ph	71
	Double acting	Advance/Retract	TW	Remote	2.0	ZU4208TI-E ³⁾	208-240 vac, 1-ph	81

- 1) All models meet CE safety requirements and all CSA requirements.
- 2) European Plug and CE EMC Directive Compliant
- 3) w/NEMA 5-15 plug
- 4) Subtract 7.7 lbs per gallon for competitive weight comparison.

ZU4 Electric Torque Wrench Pumps



ENERPAC

The Industrial Tools Line

Cylinders

- General Purpose
- Pancake
- Aluminum Lightweight
- Low Height
- Heavy-duty
- Hollow Plunger
- Industrial
- Pull
- Jacks
- Spread

Pumps

- Manual
- Electric Driven
- Compressed Air Driven
- Gasoline Driven

System Components

- Hoses, Couplers, Oil
- Gauges, Adaptors
- Manifolds, Fittings

Valves

- 3-and 4-Way Directional
- Pressure and Flow Control

Presses

- Bench and Workshop
- Roll Frame Presses
- Arbor and C-Clamps

Pullers

- Master Puller Sets
- Multi Purpose Puller Sets
- Posi Lock® Pullers

Tools

- Maintenance Sets
- Punches
- Machine Lifts
- Load Skates
- Cutters
- Pipe Benders

Bolting Tools

- Nut Splitters
- Flange/Wedge Spreaders
- Flange Alignment Tools
- Torque Wrenches
- Torque Wrench Pumps
- Twin Safety Hoses

Specialty Products

- Long Stroke Cylinders
- Stage Lift Systems
- Synchronous Lift Systems
- Synchr. Hoisting Systems



See the Enerpac
Industrial Tools Catalog for
information about other
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