

ZU4 Electric Torque Wrench Pumps

ENERPAC 
POWERFUL SOLUTIONS. GLOBAL FORCE.

▼ Shown: ZU4204TB-Q and ZU4204BB-Q



- 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 electrical components, while providing an ergonomic, non-conductive handle for easy transport
- Low-voltage pendant provides additional safety for the operator
- Valve technology reduces oil operating temperatures and withstands contaminants to increase pump reliability

Pro-Series

- LCD readout provides pressure and torque 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)

Z Tough.
Dependable.
Innovative.
CLASS



FIRMWARE for Pro-Series

- Display torque in Ft.lbs. or Nm
- Display pressure in bar, MPa or psi
- Torque wrench model is selectable
- “Auto cycle” setting easily programmable



Classic Electrical

Basic electrical package includes mechanical contactor, ON/OFF toggle switch, pendant with electro-mechanical pushbuttons, 24V transformer timer and operator accessible circuit breaker.



Back-lit LCD, for Pro-Series

- Pump usage information, hour and cycle counts
- Low-voltage warning and recording
- Self-test and diagnostic capabilities
- Information can be displayed in English, French, German, Italian, Spanish and Portuguese
- Pressure transducer is more accurate and durable than analog gauges

▼ Any brand of hydraulic torque wrench can be powered by the portable ZU4-Series torque wrench pump.



ZU4 Torque Wrench Pumps



Z-Class – A Pump For Every Application

Patented Z-Class pump technology provides

high by-pass pressures for increased productivity—important in applications using long hose runs and high pressure-drop circuits, like heavy lifting or certain double-acting tools.

Enerpac ZU4 Hydraulic Pumps are built to power small to large torque wrenches. Choosing the right ZU4 torque wrench pump for your application is easy.

Classic Electric Torque Wrench Pump

- The Classic has an analog gauge and traditional electro-mechanical components (transformers, relays and switches) in place of solid-state electronics. The Classic delivers durable, safe and efficient hydraulic power.

Pro Series Electric Torque Wrench Pump

- Digital (LCD) display features a built-in hour meter, pressure and torque display, and shows self-diagnostic, cycle-count and low voltage warning information. These premium features are not available on any other pump—anywhere!

AutoCycle feature provides continuous cycle operation of the torque wrench as long as the advance button is pressed. (Pump can be used with or without AutoCycle feature).

ZU4 Series



Reservoir Capacity:

1 and 1.75 gal.

Flow at 10,000 psi:

60 in³/min.

Motor Size:

1.7 hp

Maximum Operating Pressure:

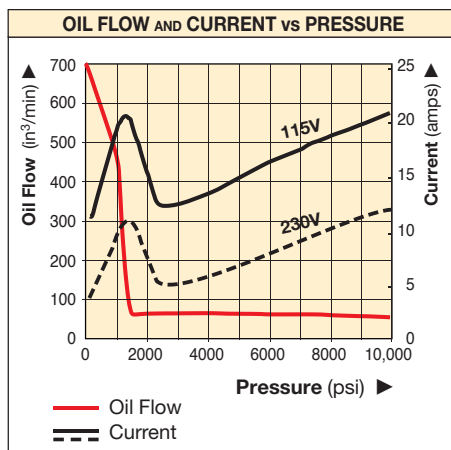
10,000 and 11,600 psi



Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench pump and hose selection matrix.

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Pump Ratings

-Q suffix pumps are for 10,000 psi torque wrenches, and include spin-on couplers.

-E suffix pumps are for use with 11,600 psi rated torque wrenches, and include polarized lock-ring safety couplers.

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COMMON PUMP MODELS

	For Use With Torque Wrenches	Model Number ^{1) 4)}	Motor Electrical Specification	Usable Oil Capacity (gal)	Weight with Oil (lbs)
Pro Series	All wrenches	ZU4204TB-Q	115 V-1 ph	1.0	70
		ZU4208TB-Q	115 V-1 ph	1.75	76
		ZU4204TE-Q ²⁾	208-240 V-1 ph	1.0	70
		ZU4208TE-Q ²⁾	208-240 V-1 ph	1.75	76
		ZU4204TI-Q ³⁾	208-240 V-1 ph	1.0	70
		ZU4208TI-Q ³⁾	208-240 V-1 ph	1.75	76
Classic	All wrenches	ZU4204BB-QH	115 V-1 ph	1.0	82
		ZU4204BB-Q	115 V-1 ph	1.0	73
		ZU4208BE-QH ²⁾	208-240 V-1 ph	1.75	83
		ZU4204BE-Q ²⁾	208-240 V-1 ph	1.0	74
		ZU4208BI-QH	208-240 V-1 ph	1.75	88
		ZU4208BI-Q	208-240 V-1 ph	1.75	79



Gauge and Overlay Kit

Gauge and overlay kits are also available separately. **GT-4015-Q** includes overlays for all S- and W-Series torque wrenches.

- All models meet CE safety requirements and all TÜV requirements
- European plug and CE EMC directive compliant
- With NEMA 6-15 plug
- Select -E suffixed pumps for Enerpac SQD and HXD 11,600 psi torque wrenches

ZU4 Ordering Matrix and Specifications

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▼ This is how a ZU4 Series pump model number is built up:



1 Product Type

Z = Pump series

2 Motor Type

U = Universal electric motor

3 Flow Group

4 = 60 in³/min @ 10,000 psi

4 Valve Type

2 = Torque wrench valve

5 Reservoir Size (useable capacity)

04 = 1.0 gallon
08 = 1.75 gallons

6 Valve Operation

T = Solenoid valve with pendant, LCD Electric and pressure transducer
B = Solenoid valve with pendant, classic electrical

7 Voltage

B = 115V, 1 ph, 50/60 Hz
E = 208-240V, 1 ph, 50/60 Hz (with European plug CE RF compliant)
I = 208-240V, 1 ph, 50/60 Hz (with NEMA 6-15 plug)

8 Factory installed features and options

E = 11,600 coupler for use with HXD-, SQD-Series or other wrenches
Q = 10,000 coupler for use with S- and W-Series or other wrenches
H = Heat exchanger
K = Skidbar
M = 4-wrench manifold
R = Roll cage



How to order your ZU4-Series torque wrench pump

Ordering Example 1

Model No. ZU4208TB-QMHK
10,000 psi pump for use with Enerpac S- and W-Series and other 10,000 psi torque wrenches, 115V motor, 1.75 gallon reservoir, 4-wrench manifold, heat exchanger and skidbar.

Refer to the torque wrench pump selection matrix for optimum wrench, pump and hose combinations.

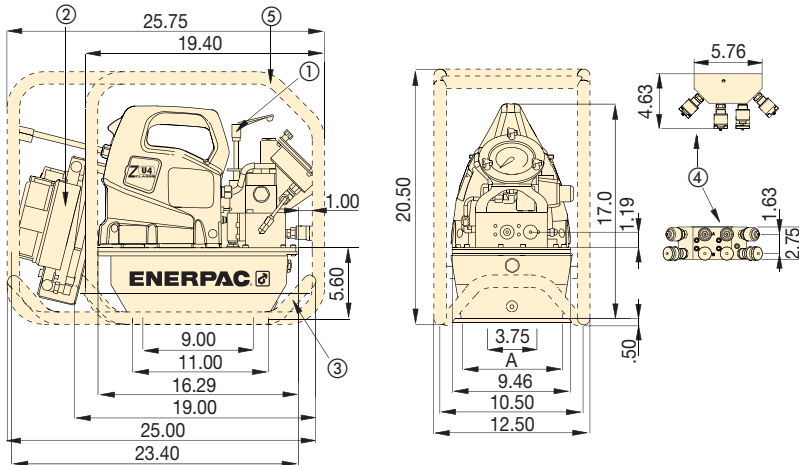


Twin Torque Wrench Hoses

Use Enerpac THQ-700 series twin hoses with 10,000 psi pumps, or use THC-700 series twin hoses

with 11,600 psi pumps.

10,000 psi	
19.5 feet long, 2 hoses	THQ-706T
39 feet long, 2 hoses	THQ-712T
11,600 psi	
19.5 feet long, 2 hoses	THC-7062
39 feet long, 2 hoses	THC-7122



ZU4-Series Torque Wrench Pumps

Reservoir Size (useable gallons)	A (in)
1	6.0
1.75	8.1

Dimensions shown in inches

- ① User adjustable relief valve
- ② Heat exchanger (optional)
- ③ Skidbar (optional)
- ④ 4-wrench manifold (optional)
- ⑤ Roll cage (optional)

ZU4 Performance						
Motor Size (hp)	Output Flow Rate (in ³ /min)				*Motor Electrical Specification	Relief Valve Adjustment Range (psi)
	100 psi	700 psi	5,000 psi	10,000 psi		
1.7	700	535	76	60	115 VAC, 1-ph 208-240 VAC, 1-ph	85-90 1,800-10,000**

* 50/60 HZ

** Pump type (-Q) shown, (-E) range is 1,800 - 11,600 psi.

▼ Most hydraulic torque wrenches can be powered by the Enerpac ZU4-Series torque wrench pump.



ZU4 Torque Wrench Pump Options



Heat Exchanger

- Removes heat from the bypass oil to provide cooler operation
- Stabilizes oil viscosity, increasing oil life and reduces wear of pump and other hydraulic components

Accessory Kit No. *	Can be used with:
ZHE-U115	115V pumps
ZHE-U230	230V pumps

* Add suffix **H** to pump model number for factory installation. Heat Exchanger adds 9.1 lbs. to pump weight.

Ordering Example:

Model No. ZU4208TB-H



Skidbar

- Provides greater pump stability on soft or uneven surfaces
- Provides easy two-handed lift

Accessory Kit No. *	Can be used on ZU4-Series torque wrench pumps
SBZ-4	1 and 1.75 gallon ¹⁾
SBZ-4L	1 and 1.75 gallon ²⁾

* Add suffix **K** to pump model number for factory installation.

¹⁾ Without heat exchanger 4.9 lbs.

²⁾ With heat exchanger 7.0 lbs.

Ordering Example:

Model No. ZU4208TB-QK



Roll Cage

- Protects pump
- Provides greater pump stability

Accessory Kit No. *	Can be used on ZU4-Series torque wrench pumps
ZRC-04	1 and 1.75 gallon reservoir ¹⁾
ZRC-04H	1 and 1.75 gallon reservoir ²⁾

* Add suffix **R** for factory installation.

¹⁾ Without heat exchanger

²⁾ With heat exchanger

Ordering Example:

Model No. ZU4208BB-QR

ZU4 Series



Reservoir Capacity:

1 and 1.75 gal.

Flow at 10,000 psi:

60 in³/min.

Motor Size:

1.7 hp

Maximum Operating Pressure:

10,000 and 11,600 psi



4-Wrench Manifold

- For simultaneous operation of multiple torque wrenches
- Can be factory installed or ordered separately

Accessory Kit No. *	Can be used on ZU4-Series torque wrench pumps
ZTM-E	for 11,600 psi torque wrenches
ZTM-Q	for 10,000 psi torque wrenches

* Add suffix **M** to pump model number for factory installation.

Ordering Example:

Model No. ZU4208TB-QM