

SPECIFICATIONS – PTO DRIVEN: MODEL CP-4

Knock Out Fires Quickly With High Pressure Fog



This ultra high-pressure performer is a lightweight four-stage centrifugal pump that delivers 60 GPM (200 l/min) at 1000 PSI (69 Bar) or in an ultra-high pressure version (CP-4UH) that delivers 90 GPM (350 l/min) at 1350 PSI (93 bar) to produce high-pressure fog, which can knock out fires quickly while the pumper is either in motion or stationary. The diverse features of the CP-4 pump make it ideal where high-pressure pump performance is required.

CP-4 Pump Performance							
Model	FLOW			PRESSURE			
	GPM	l/min	l/sec	PSI	bar	kPa	MPa
CP-4	60	200	3	1000	69	6900	6.9
CPT4-UHP	90	350	6	1350	93	9300	9.3

Pump Features

- Two-piece, horizontally-split close-grained, gray iron (bronze optional).
- Bronze, hydraulically and mechanically balanced impeller
- Replaceable, NI-Resist, special “stepped” design to reduce internal leakage and increase efficiency.
- Adjustable braided flexible graphite (BFG) packing
- 2-inch NPT intake
- 1-1/2-inch NPT discharge
- Available in either rotation of input shaft

Applications

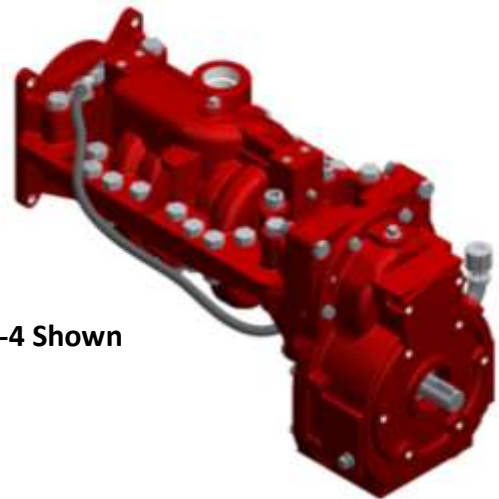
The CP-4 can be used either as an auxiliary pump to provide “booster” service on an apparatus that also has a rated midship pump, or as the only pump on a mini-pumper, brush truck or other special purpose vehicle. Especially adaptable to “pump and roll” operation, the CP-4 pump will supply two or more high-pressure booster reels with ultra-high pressure. Ideal for situations where a limited water supply is available and a high pressure fog is desirable for knocking out a fire quickly before it spreads.

Warranty

Waterous Five-Year Limited Warranty (CP-4 Series Only, Contact Waterous for Warranty details on the CPT-4UHP Series)

Conditions of Sales

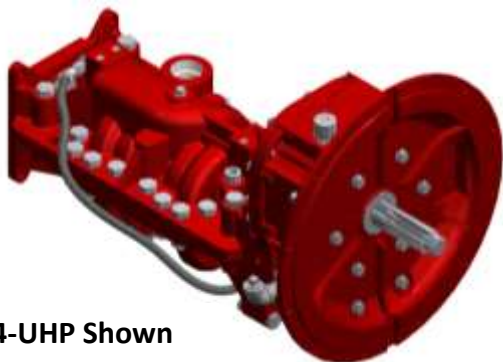
For details on Waterous Conditions of Sales, refer to F-2190, *Conditions of Sales* located on the Waterous web site at www.waterousco.com or by contacting Waterous.



CPK-4 Shown

Optional Equipment (see next page)

- Priming System
- Pressure Control Systems – Discharge and Intake Relief Valves
- Corrosion Protection – Zinc Intake Screens and Anodes
- Overheat Protection Manager
- Drain Valves
- Discharge Valves
- Five-Year Limited Warranty with Total Protection Package (TPP-5) (Not available on CPT4-UHP Series)
- Tachometer drive available, operates at ½ input shaft speed.
- Transmissions Available:
 - K Series Gear Driven (PTO Driven)
 - T Series Gear Driven (Direct Drive)



CPT4-UHP Shown

Industry Leading Sales and Support

When you purchase 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



RAISING THE BAR ON INNOVATION, RELIABILITY AND SERVICE.

SPECIFICATIONS - PTO DRIVEN: MODEL CP-4

Accessories & Optional Equipment

The accessories below are available for Waterous CP-3 pumps. For detailed information about these accessories, request each specification sheet by number.

Primer

Select an electric rotary vane primer for fast, reliable priming. F-2418

Pressure Control Systems

Discharge Relief Valve

Simple ON-OFF control permits placing the system in or out of operation in seconds. See Relief Valve, F-897.

Intake Relief Valves

The Waterous intake relief valve is designed to dump excess pressure from the inlet side of the pump. See Intake Relief Valves, F-2192.

Corrosion Protection

Waterous offers replaceable zinc intake screens and anodes to provide corrosion protection. These items are designed to sacrifice the zinc element to galvanic corrosion. Without this protection, galvanic corrosion may damage the iron pump body and fittings.

Pump Specifications

Casings:

Two-piece, horizontally-split, high-tensile, close-grained, gray iron (bronze optional).

Wear Rings:

Ni-resist; special "stepped" design to reduce internal leakage and increase efficiency. Replaceable by undersize rings to prolong pump life and minimize maintenance costs.

Impellers:

Bronze, hydraulically and mechanically balanced - one integrally cast pair for the first and second stages and another for the third and fourth stages. Impeller hubs are "stepped" to minimize internal bypass.

Stuffing Boxes:

Adjustable braided flexible graphite (BFG) packing.

Rotation:

Available with either clockwise or counter-clockwise rotation of input shaft.

Bearings:

All bearings are oil or grease lubricated, anti-friction (ball type), located outside the pump casing to accurately align and support the impeller shaft assembly. Ball bearings are deep-groove type designed to carry both radial and axial thrust.

Intake:

2" (5 cm) NPT

Discharge:

1-1/2" (3.8 cm) NPT

Overheat Protection Manager

The OPM consists of an illuminated warning light on the operator's panel whenever the pump approaches an overheat condition. F-2422

Drain Valves

Drains all points of the pump simultaneously with the operation of a single control. F-1158

Discharge Valves

The following Waterous ball-type discharge valves are available: 2-1/2 inch, 3-1/2 inch, rack and sector push-pull, worm gear and electric. Chrome-plated brass ball and hydraulically-balanced seal assembly standard. See Discharge Valves, F-1161.

Tachometer

Tachometer drive available; operates at 1/2 input shaft speed.

Five-Year Limited Warranty with Total Protection Package (TPP-5)*

The Five-Year Limited Warranty with Total Protection Package is a comprehensive warranty that increases your standard warranty to include labor expenses to dismantle, remove and reinstall covered products or parts, F-2626.

**Not Available on CPT4-UHP Series*

Transmission Specifications



K Series

The K Series Transmission is normally used when a truck transmission mounted power take-off is selected as the pump drive.

Housings: Close-grained, gray iron

Drive Ratios: 1.62, 1.97, 2.14, 2.55, 2.79, 3.40, 4.00, 4.79

Gears: Helical, precision cut, crown shaved for proper load distribution and quiet operation.



T Series

The T Series Transmission is supplied when the pump is to be mounted directly to the engine bell housing. This provides a clean, compact arrangement and allows for complete pump and roll capability.

T Transmissions are available in SAE 2, 3, 4, or 5 bell housing adapters.

Housings: Close-grained, gray iron

Drive Ratios: 1.62, 1.97, 2.14, 2.55, 2.79, 3.40, 4.00, 4.79

Gears: Helical, precision cut, crown shaved for proper load distribution and quiet operation.