

# SPECIFICATIONS: MODEL CRU-2 HIGH-FLOW PUMP

## FOR MUNICIPAL, ARFF AND INDUSTRIAL APPLICATIONS



Waterous CRU-2 single-stage centrifugal high-flow pump mated to C21 or QC chain-driven transmission or driven by a TC21 split-shaft PTO can be utilized in municipal firefighting, aircraft firefighting, dewatering or for industrial applications. CRU-2 has a flow through rate of 6800 GPM (25000 l/min).

CRU-2 Pump Performance						
FLOW			PRESSURE			
GPM	l/min	l/sec	PSI	bar	kPa	MPa
2000	7500	125	150	10.3	1030	1.03
2500	9400	155	100	6.9	690	0.69
3000	11350	185	100	6.9	690	0.69
3000*	11350	185	150	10.3	1030	1.03
3500	13000	215	100	6.9	690	0.69
4000	15000	250	100	6.9	690	0.69
4000*	15000	250	150	10.3	1030	1.03

\*Non-NFPA Rating

### CRU-2 Pump Features

- Single stage, vertically-split body constructed of ductile iron
- Bronze replaceable wear rings
- Silicon bronze, mechanically and hydraulically balanced impeller
- Stainless steel impeller shaft
- Self-adjusting mechanical seal
- 10-inch Victaulic intake
- 6-inch ANSI flanged discharge
- Pump Inducer (4000 GPM Rating Only)

### Transmission / PTO Features

- High-strength aluminum, three-piece, horizontally-split housing
- Drive line shafts made from alloy steel forgings, hardened and ground to size.
- Drive and driven sprockets are hardened and have ground bores.
- Integral water cooler provision.
- Morse HV® high-strength involute form drive chain.
- Deep-groove, anti-friction ball bearings give support and proper alignment to the impeller shaft assembly. Bearings are oil-splash lubricated, completely separated from the water being pumped, and protected by a V-ring and oil seals.
- An internal lubrication system delivers lubricant directly to the drive chain. This unique design eliminates the need for an external lubrication pump and auxiliary cooling.
- Shift mechanism consists of a constant-mesh, two-position sliding collar that engages all teeth simultaneously. In-cab controlled pneumatic shift. An internal locking mechanism provides a positive lock in PUMP or ROAD position.



### Optional Equipment

- Priming System
- Pressure Control Systems – Discharge and Intake Relief Valves
- Corrosion Protection – Zinc Intake Screens and Anodes
- Overheat Protection Manager
- Drain Valves
- Discharge Valves
- Discharge Positions:
  - Four discharge positions on Direct Driven CRU-2
  - Three discharge positions on CRUC21-2 and CRUQC-2
- Pneumatic Shift

### Warranty

Waterous Seven-Year Limited Warranty (Fire Fighting Applications Only)

### Conditions of Sales

For details on Waterous Condition of Sales, refer to F-2190, *Conditions of Sales* located on the Waterous web site at [www.waterousco.com](http://www.waterousco.com) or by contacting Waterous.



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## Accessories & Optional Equipment

The accessories below are available for Waterous CRU-2 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.

### **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.

## 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  
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