



SPECIFICATIONS – ARFF: MODEL CR
The Most Durable and Dependable ARFF Pump in the Industry

The rugged and reliable Waterous CR single-stage centrifugal fire pump provides the discerning ARFF pro a large capacity, pedestal-mounted (CR model) or a chain-driven with (CRQA), end suction unit rated at 2050 GPM @ 250 PSI (7800 L/min @ 17 bar). The CR, like all of our pumps, is tested at full power prior to shipment to ensure it meets the demanding Waterous standard. The CR pump is also backed by an industry exclusive five-year warranty.



Design Features:

Waterous CR centrifugal fire pumps are designed for direct drive (Model CR) or can be driven via a chain driven transmission with a 10-1/2 inch offset (Model CRQA). The CR pumps are single stage, vertically- split and designed to operate from a water tank, hydrant or from draft. The CR pump has a rated capacity of 2000 GPM (7570 L/min) at 225 psi (15.5 bar) net pump pressure for ARFF applications.

balanced impeller for smooth operating and oil-lubricated, anti-friction ball bearings throughout.

Waterous pumps are built to fit individual requirements. A qualified apparatus application engineer can assist you in determining which combination pump, truck chassis and engine will produce maximum performance to suit your needs.

CR pump construction features a mechanical self-adjusting seal, replaceable wear rings, a mechanically and hydraulically-

Every pump is tested under full power before shipment to assure it meets established performance criteria.

Pump Specifications:

Casing:

Gray iron (bronze optional)

Wear Rings:

Bronze replaceable wear rings to increase pump life and keep maintenance costs to a minimum.

Impeller:

Bronze, mechanically and hydraulically balanced to eliminate vibration.

Impeller Shaft:

Stainless steel, heat treated, ground to precise size and polished under shaft seal.

Seal Type:

Mechanical seal is standard (self-adjusting).

Intake:

8 inch (20.3 cm) Victaulic®

Discharge:

5 inch (12.7 cm) Victaulic®

Discharge Positions:

Available in 25° below horizontal, horizontal or vertical.

Bearings:

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

Drive:

Direct drive with 1.750-10 spline for Spicer 4-4-3811 Series End Yoke.

QA Transmission Specifications:

Casing:

Gray iron

Ratio:

1:1

Drive:

1.750-10 SAE spline with Spicer 1550 Series End Yoke

Chain:

Morse HV® high-strength involute form chain

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)
 pumps@waterousco.com

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

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Accessories & Optional Equipment

The accessories below are available for Waterous CR 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.