



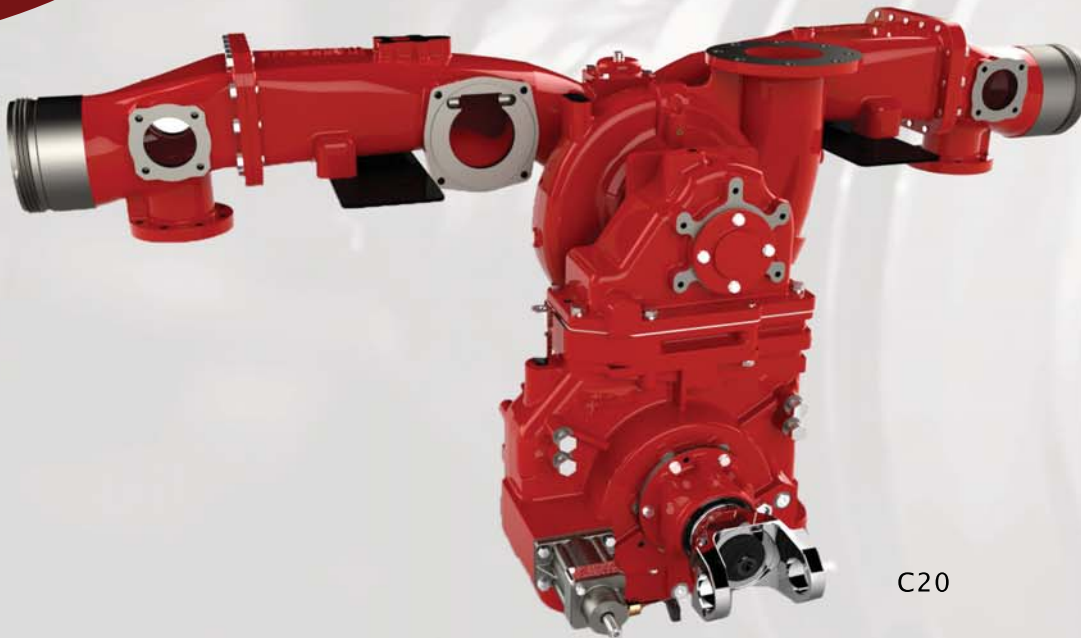
FOAM SYSTEMS

CAFSystems™

FIRE PUMPS

SPLIT-SHAFT PUMP

# S101 COMPACT



C20

With a smaller footprint than other larger, midship mounted fire pumps, the S101 Compact measures 26" from the front of the ram's horn intake to the rear of the C20 Transmission, which saves on compartment space for those important tools needed when fighting a fire.

## PERFORMANCE

- 1250 to 2000 GPM (5000 to 8000 l/min)

## AVAILABLE MOUNTING

- Mid-Ship: Equipped with C20 Chain Drive Transmission
- PTO: Equipped with PA Chain Drive PTO
- Rear Mount: Equipped with TC20 Transmission

# SPECIFICATIONS: VEHICLE MOUNTED: MODEL S101

S101 Pump Performance									
GPM	L/min	L/Sec	PSI	Bar	kPa	MPa	Impeller RPM	HP	kW
1250	5000	80	150	10	1000	1.0	3315	162	121
1500	6000	100					3430	187	139
1750	7000	120					3565	216	161
2000	8000	130					3700	251	187

## Pump Features

The S101 pump with the “Ram Horn” intake provides up to 2000 GPM @ 150 PSI. With a smaller footprint than other larger midship-mounted fire pumps, 26” from the front of the ram’s horn intake to the rear of the C20 Transmission, the S101 will save compartment space for those important tools needed when fighting a fire. Other advantages of the S101 are - easier installation for OEM’s (intake piping and mounting), draft from either side of the truck and weight savings by utilizing the next generation C20 transmission (lighter on weight, uses less oil).

- 26” from front of ram’s horn intake to rear of the C20 transmission
- Ram’s horn dual intake
- C20 chain-drive transmission
- Low pump height allows for lower crosslays
- Plumbing can stay in vehicle if pump needs to be removed for repair.
- Pump weighs less than competition

### Pump Body:

Cast in ductile iron. Double stripping edge volute minimizes radial forces at all flow rates.

### Intake:

Dual Intake Wye (Ram Horn)

### Discharge:

5-inch ANSI flange or an optional 21st Century Manifold (4 in. end flanged manifold with (8) 2-1/2 in. side pads) or an optional 5 in. ANSI to 4 in. ANSI adapter.

### Impeller:

Bronze impeller, balanced mechanically and hydraulically for vibration-free operation and flame-plated to assure longer life despite the presence of abrasives in the water supply.

### Impeller Shaft and Seal:

Stainless steel shaft and impeller nut with spring-loaded mechanical shaft seal. Self-adjusting mechanical seal eliminates leakage and routine maintenance.

### Wear Rings:

Bronze labyrinth-type (reverse-flow) replaceable wear rings increase pump life and keep maintenance costs to a minimum.

### V-ring:

Located on the impeller shaft between mechanical seal and transmission oil seal, the V-ring provides added protection by keeping water and foreign matter out of the bearings.

### Oil Seals:

Single lip, spring-loaded design for lubrication seal and additional bearing protection from dirt and water.

## Optional Equipment

- Priming System
- Pressure Control Systems – Discharge and Intake Relief Valves
- Corrosion Protection – Zinc Intake Screens and Anodes
- Overheat Protection Manager
- Drain Valves
- 21<sup>st</sup> Century Manifold
- Five-Year Limited Warranty with Total Protection Package (TPP-5)
- Electronic Tachometer Sensor
- Power Shift

**Housing:** High-strength aluminum

**Drive Ratios – C20:** 1.27, 1.41, 1.48, 1.58, 1.69, 1.79, 1.88, 1.97, 2.03, 2.27, 2.46

**Shafts:** Drive line shafts made from alloy steel forgings, hardened and ground to size.

### Drive and Driven Sprockets

Made of steel. All sprockets are hardened, and have ground bores.

### Drive Chain

High-strength involute form chain.

### Bearings

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.

### Passive Lubrication System

C20 uses a passive lubrication system that eliminates the need for a separate oil pump.

### Shift Mechanism

Constant-mesh, two-position sliding collar that engages all teeth simultaneously. In-cab controlled pneumatic shift or an optional electric shift. A patented internal locking mechanism provides a positive lock in PUMP or ROAD position.

### Warranty

Waterous Five-Year Limited Warranty

### 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](http://www.waterousco.com) or by contacting Waterous

## 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](mailto:pumpsales@waterousco.com)

**Service Assistance**  
Phone: 651-450-5200  
Fax: 800-488-1228  
[service@waterousco.com](mailto:service@waterousco.com)