# **ESU1 SPECIFICATIONS**



# **VEHICLE MOUNTED PUMP**



# Pump Body:

Grey iron with double stripping edge volute minimizes radial forces at all flow rates.

# Intake:

8-inch (200mm) Victaulic\*

## Discharge:

5-inch (127mm) ANSI flange

## 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.

# Warranty

Waterous Seven-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 or by contacting Waterous.

GPM	L/min	L/Sec	PSI	Bar	kPa	MPa
1500	5678	94	150	10	1000	1.0
1750	6624	110				
2000	7570	126				
2250*	8517	142				

\*Pump Inducer Required

# **Optional Equipment**

- VENTURIS™ Air Priming System, see F-2940
- Electric Priming System, see F-2418
- Pressure Control Systems:
  - Discharge Relief Valves, see F-897
  - Piloted Intake Relief Valves, see F-2192
  - Non-Piloted Intake Relief Valve, see F-2192-N
- Corrosion Protection Zinc Intake Screens and Magnesium Anodes
- Overheat Protection Manager, see F-2422
- Drain Valves, see F-1158
- 21<sup>st</sup> Century Manifold (4 in. end flanged manifold with (8) 2-1/2 in. side pads)
- 5-inch ANSI to 4-inch ANSI Adapter
- 6" (152mm) Dual Intake "Rams Horn"
- Seven-Year Limited Warranty with Total Protection Package (TPP-5)

# **C22** Chain Drive Transmission

Housing: High-strength aluminum

Drive Ratios - 1.69, 1.79, 1.88, 1.97, 2.03, 2.27

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**

C22 uses a passive lubrication system. Eliminates the need for a separate oil pump.

# Shift Mechanism

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

# **Bearing Housing**

# Housing:

Cast in Aluminum

# 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 seal.