

SPECIFICATIONS – INTEGRATED CROSSMOUNT: 500-140-DC
Integrated Systems for Simplified Operations



Waterous 500-140-DC integrated crossmount CAFSystems™ combine the engine, transmission, water pump and air compressor into one, single operation, skid-mounted unit capable of 500 GPM (1900 L/min) of water or 140 SCFM (4 m3/min) of air. These units are designed for transverse mounting within a pump compartment and come with an industry exclusive five-year warranty.

BENEFITS OF COMPRESSED AIR FOAM

- 80% of water content in the foam is effectively used for fire fighting
- Improved firefighter safety
 - Faster knockdown time
 - Less property damage
 - Less water used

| 500-140-DC Performance | | | | | | | |
|------------------------|------|---------------------|-------|----------|-----|------|------|
| | FLOW | | | PRESSURE | | | |
| | GPM | l/min | l/sec | PSI | bar | kPa | MPa |
| Water Flow | 500 | 2000 | 33 | 150 | 10 | 1000 | 1.0 |
| | 350 | 1300 | 21.5 | 200 | 14 | 1400 | 1.4 |
| | 250 | 1000 | 16.5 | 250 | 17 | 1700 | 1.7 |
| | CFM | M ³ /Min | | PSI | Bar | kPa | MPa |
| Air Flow | 120 | 3.4 | | 125 | 8.6 | 860 | 0.86 |

CAFSystem Components

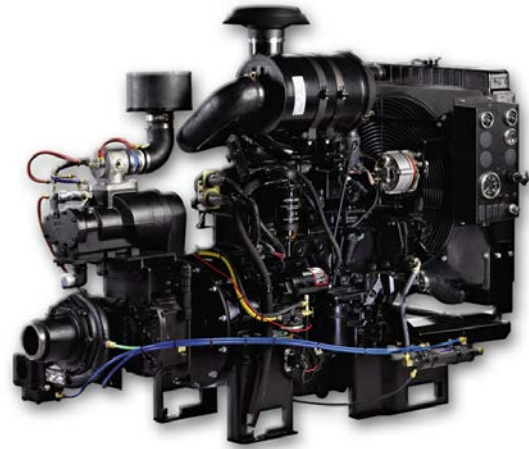
- GHH Rand 140 sCFM (4.0 m³/min)
- Aquis™ 3.0 Foam Proportioner available
- Electric Auto-Sync Balancing System

Pump / Transmission Specifications

- Waterous CLVT centrifugal water pump, gray iron case, bronze impeller, stainless steel shaft and maintenance-free mechanical seal.
- 4-inch NPT Intake
- Waterous VPOS Oil-Free Primer
- Gear-Drive, Direct-Drive T Series Transmission

Engine Specifications

- John Deere, model 4045TF150, four-cylinder, turbocharged, liquid-cooled with variable speed governor, delivering a 115 horsepower (85 kW), 276 cu. in. (4.5L) displacement, four-cycle, diesel fueled.
- Lubrication system with oil pressure warning light and spin-on oil filter. An extension hose is installed on the engine oil drain with a valve located at the oil pan and a plug installed in the end of the hose to facilitate oil changes.
- Heavy-Duty exhaust muffler



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 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

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



THEN, NOW, ALWAYS. MOVING FORWARD.

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Air Compressor:

The air compressor is an oil-flooded, rotary screw type, sized to supply a minimum of 140 scfm (4.0 m³/min) of usable air.

Pneumatic Modulating Inlet Valve:

The air compressor is controlled by the pneumatic modulation inlet valve mounted on the air end. The pneumatic modulation inlet valve controls air delivery while maintaining constant pressure.

Auto Sync Balancing System:

Automatically maintains the air pressure within +/- 5% of the water pump pressure throughout the pressure range. The Auto Sync Balancing System is located on the operator's panel and allows for the following modes:

- Automatic - Air pressure matched to water pressure
- Fixed - Air pressure defaults to manual setting on compressor mounted control valve.
- Unload - Air pressure reduced to 40 psig (2.8 bar) for standby operations
- Run - Air compressor in run operation. Air pressure determined by Auto or Fixed setting.

Air Compressor Oil System:

A spin-on, full-flow oil filter unit and a thermostatic valve are all part of the system to control oil flow to the cooler. All lines are routed in braided hose conforming to SAE 100R1 standards for hydraulic hose.

Modular Air/Oil Separator:

Replacement elements for the oil filter and separator are available.

Air Compressor Cooling System:

The air compressor is cooled by the unit's water pump, utilizing a copper and brass shell and tube heat exchanger. When the fire pump is operating, water flows through the heat exchanger. The system maintains recommended operating temperatures throughout the full operational range in ambient temperatures up to 115°F (46.1° C).

Foam Systems (Optional):

- Aquis™ Foam Proportioner with operator interface terminal (OIT), pump module with electric motor/motor driver and microcontroller unit, foam concentrate strainer, shielded electrical cables for connection of all electronic components, foam inject check valve, WYE Strainer and flowmeter and tee.

On-Site Delivery Instruction (Optional):

Contact factory for pricing.