



SPECIFICATIONS – INTEGRATED CROSSMOUNTS: 250-120-DC Integrated Systems for Simplified Operations

Waterous 250-120-DC integrated crossmount CAFSystems™ combine the engine, transmission, water pump and air compressor into one, single, skid-mounted unit capable of 250 GPM (950 L/min) of water and 120 SCFM (3.4 m³/min) of air. The diesel-powered engine pump and air compressor are separate from the truck's main engine and drive line. The 250-120-DC also comes with an industry exclusive five-year warranty.



Description:

The Waterous 250-120-DC is an integrated crossmount compressed air foam unit designed and constructed to discharge water, foam solution or compressed air foam. The consistency of the compressed air foam from each discharge is individually adjustable.

The 250-120-DC develops a minimum of 200 GPM of water at 125 psig (757 l/m @ 8.6 bar) and 100 cfm of air at 125 psig (2.83 m³/min @ 8.6 bar) simultaneously. The unit also can pump water or air independently. With the air compressor in the “Unload” mode, the unit can achieve the following performance ratings:

- 250 GPM @ 150 psig / 946 l/min @ 10.3 bar
- 125 GPM @ 200 psig / 473 l/min @ 13.8 bar
- 75 GPM @ 250 psig / 284 l/min @ 17.2 bar

Pump and Engine Specifications:

Pump:

Waterous CPK-2 centrifugal fire pump. CPK-2 utilizes a high-tensile gray iron body, bronze impeller, replaceable wear rings and maintenance-free mechanical seals.

Intake and Discharge:

3 inch intake, 2 inch discharge

Pressure Relief:

An optional pressure relief system is available to comply with NFPA 1906 standards.

Priming System (Optional):

Waterous VPOS Oil-free primer. Rotating parts in the VPOS are made of corrosion-resistant, anodized aluminum, stainless steel and composite materials.

Engine:

Cummins, model B3.3, four-cylinder, turbocharged, liquid-cooled, delivering a maximum of 85 horsepower (63 kW), 3.3L displacement, four-cycle, SAE #5 bell housing, flywheel mounted flexplate, diesel fueled.

Fuel System:

The engine draws fuel from the chassis fuel tank.

Lubrication:

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.

Exhaust:

Heavy-duty exhaust muffler

Air Compressor Transmission:

Poly Chain drive with an manual tensioner and 8mm pitch sprockets.

Approximate Dimensions and Weights:

Length (in/cm)	Width (in/cm)	Height (in/cm)	Dry Weight (lb/kg)
54.0 (137)	26.0 (66)	36.0 (91)	900 (408)

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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Air Compressor:

The air compressor is an oil-flooded, rotary screw type, sized to supply a minimum of 120 scfm (3.4 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.

Foam Systems (Optional):

- Advantus[®] Foam Systems with operator interface terminal, pump module with electric motor/motor driver and microcontroller unit, foam concentrate strainer, WYE strainer, shielded electrical cables for connection of all electronic components, process manifold with flowmeter and associated components as specified
- 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.

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).

Air Lines:

All air lines are rated to a minimum of 250 psig (17.2 bar). Air line fittings are constructed of brass, bronze or steel. Stainless steel or brass check valves are provided at all air injection points to prevent water back-flow into the air lines. All hoses shall be secured to the frame with insulating clamps and located away from any heat sources.

On-Site Delivery Instruction (Optional):

Contact factory for pricing.