



SPECIFICATIONS – SLIDE-IN CAFSYSTEMS: 250-120-DSC One Heavy-Hitting Slide-In CAFSystems™

This heavy duty modular slide-in CAFSystem delivers water, aspirated foam, or compressed air foam simultaneously, as well as compressed air for pneumatic tools. Developing a minimum of 240 GPM of water at 125 PSIG (910 L/min @ 8.6 bar) and 120 CFM of air at 125 PSIG (3.4 m³/min @ 8.6 bar) simultaneously, this heavy-hitter packs a serious punch. The 250-120-DSC also comes with an industry exclusive five-year warranty.



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
- 175 GPM @ 200 psig / 662 l/min @ 13.8 bar
- 125 GPM @ 250 psig / 473 l/min @ 17.1 bar

Pump and Transmission 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 / Discharge:

3 inch intake, 2 inch discharge

Priming:

Pneumatic oil-free primer capable of priming the water pump through 20 feet (6 m) of 2-1/2 (63.5 mm) inch hard intake hose with a 10 foot (3 m) lift. Controls are mounted on the operator's panel.

Transmission:

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

Engine Specifications:

Cummins, Model B3.3, four-cylinder, turbocharged, liquid cooled, delivering a maximum of 85 horsepower (63 kW), 3.3L displacement, four-cycle, diesel fueled.

Fuel System:

The engine draws fuel from the chassis fuel tank.

Lubrication:

Pressure 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.

Electrical:

12-volt electric with 65A alternator, electric ignition and start switch.

Exhaust:

Heavy-duty exhaust muffler

Approximate Dimensions and Weights:

Length (in/cm)	Width (in/cm)	Height (in/cm)	Dry Weight (lb/kg)
70.0 (178)	47.75 (121)	47.75 (121)	1932 (876)

Frame / Pump Operator's Panel / Tanks:

Frame:

A steel skid weldment provides support to the unit. Constructed of 2" x 4" x .187" wall steel rectangular tubing and 4" x .263" steel channel. The frame is sufficient to support the weight of the module while in the apparatus and for loading and unloading. All steel structures are primed and painted with a high-quality black urethane paint.

Pump Operator's Panel:

Incorporated into frame. Contains Auto Sync™, air compressor, foam proportioner controls, and water pressure and air pressure gauges.

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
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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

Air Compressor Oil System:

A spin-on, full-flow oil filter unit is 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):

- 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 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.

Plumbing:

Inlet:

Inlet piping is 2-1/2" stainless steel pipe with a 2-1/2" tank to pump valve controlled at the pump panel. A 2-1/2" valve with integral bleeder valve is provided behind the pump panel for overboard pump inlet with a 2-1/2" F-NST swivel connection. Victaulic-type couplings are utilized in the pump inlet for flexibility and improved serviceability.

Discharge:

Plumbing to two panel mounted 1-1/2" discharge outlets incorporate a stainless steel manifold and welded stainless steel pipe. Optional discharges may be fitted with wire braided reinforced high-pressure hydraulic hose with stainless steel fittings. A 1-1/2" tank fill provision with 1-1/2" valve is provided. Victaulic-type couplings are utilized in the discharge plumbing for flexibility and serviceability. All discharge plumbing is designed and tested to a minimum of 500 psig (34.5 bar) burst pressure.

Drains:

Panel mounted drain valves are provided to drain water from the water pump, discharge manifold and compressor cooler.

Foam Proportioner:

A FoamPro System 1601 automatic foam proportioner (Class A foam only) is provided and installed to inject foam concentrate into all discharges. The proportioner automatically meters the correct percentage of foam concentrate into the water stream by a 1.5" paddlewheel sensor and low foam tank sensor.

On-Site Delivery Instruction (Optional):

Contact factory for pricing.