



FOAM SYSTEMS

CAFSystems™

FIRE PUMPS

CAFSystem MODULAR SLIDE-IN

200-100-DS

SPECIFICATIONS

- Duetz 60.6 HP (45.2 kW) diesel-fueled engine
- Waterous CPD-2 Pump
- Rand 100 sCFM compressor
- Stainless Steel Frame
- AQUIS™ 1.5 Foam Proportioner
- Rotary Dial Foam Proportioning Rate Panel
- Optional Operator Interface Terminal (OIT) for selecting foam proportioning rates



PERFORMANCE

- 200 GPM @ 150 PSI
- 800 l/min @ 10 bar
- 100 SCFM @ 125 PSI
- 2.83 M³/min @ 8.6 bar

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

SPECIFICATIONS – SLIDE-IN CAFSYSTEM: 200-100-DS

Heavy Duty Slide-In's for Heavy Duty Applications



The 200-100-DS delivers water, aspirated foam, or compressed air foam simultaneously, as well as compressed air for pneumatic tools. The 200-100-DS also comes with an industry exclusive five-year warranty.

200-100-DS Performance							
	FLOW			PRESSURE			
	GPM	l/min	l/sec	PSI	bar	kPa	MPa
Water Flow	200	800	13	150	10	1000	1.0
	CFM	M ³ /Min		PSI	Bar	kPa	MPa
Air Flow	100	2.8		100	7	700	0.7

CAFSsystem Components

- GHH Rand 100 sCFM (2.8 m³/min)
- Aquis™ 1.5 Foam Proportioner
- Electric Auto-Sync Balancing System

Pump / Transmission Specifications

- Waterous CPD-2 Centrifugal water pump, aluminum case, double-hubbed bronze impeller, stainless steel shaft and maintenance-free mechanical seal.
- 3-inch NPT Intake
- 2-inch NPT Discharge
- Venturi Primer w/electric activation switch
- "Poly Chain" drive transmission with an automatic tensioner and 8mm pitch sprockets.

Engine Specifications

- Deutz, Model TP2011L04II, three-cylinder, air/oil-cooled, delivering a maximum of 74 HP (55 kW), four-cycle, diesel fueled. Two (2) year manufacturer's warranty.
- The engine uses a pulse fuel pump (fuel tank not supplied). Pressure lube system with 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.
- 12 or 24-volt electric with 60A alternator, electric ignition and start switch.
- Spark Arrestor Muffler

Pump Operator's Panel:

- Auto Sync™
- Air compressor, foam proportioner controls
- Water pressure and air pressure gauges
- Chrome-plated discharge connection
- Venturi priming system w/push to prime activation
- Auxiliary compressed air outlet and valve control
- LED Lighting
- I/C Push-Pull valve actuators and gauge

Frame:

High-strength, stainless steel frame

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.

Air Compressor:

The air compressor is an oil-flooded, rotary screw type, sized to supply a minimum of 100 scfm (2.83 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 a 12 or 24 V electric / air fan type cooler. This design eliminates the concerns of freezing of a traditional water type cooler. 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.

Plumbing:

Inlet:

Inlet piping is 3" with 2.5" tank to pump stainless steel pipe. **Discharge:**

Plumbing to two panel mounted 1-1/2" discharge outlets incorporate a stainless steel manifold and welded stainless steel pipe. 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:

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.

Optional Items:

Electronic Automatic Discharge Valves w/Electric Air Valves: Dial-a-Matic automatically controlled discharge valves are used to control water/solution flow and the consistency of the compressed air foam. They also control the electric solenoid-type, compressed air discharge valves, allowing the air discharge valves to open and close simultaneously as their respective water discharge valves are opened or closed.

Top and Side Enclosures