



SPECIFICATIONS – SLIDE-IN CAFSYSTEMS: 80-40-E A slide in powerhouse that puts fire out

The Waterous 80-40-E is a slide-in mounted modular compressed air foam unit that can discharge water, foam solution or compressed air simultaneously at 303 L/min of water or foam solution @ 100 psi and 40 CFM of air @ 100 psi. The 80-40-E also features compressed air for pneumatic tools and comes with an industry exclusive 5-year warranty.



Pump and Transmission Specifications:

Pump:

Hypro centrifugal water pump utilizing close-grained iron case, reinforced-nylon impeller, stainless steel shaft and maintenance-free mechanical seal.

Intake:

1-1/2 inch

Discharge:

1-1/2 inch

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:

Briggs & Stratton Vanguard Model 380447, two-cylinder, air cooled, sintered iron cylinder liners delivering a maximum of 23 horsepower (17.2 kW) 627 cc displacement, four-cycle, gasoline fueled. 2-year manufacturer's warranty.

Fuel System:

The engine draws fuel from a fuel tank (not supplied) via a pulse fuel pump.

Lubrication:

Pressure lube system with spin-on oil filter and external oil cooler.

Electrical:

12-volt electric with 20A alternator, electric ignition and start switch.

Exhaust:

Spark arrestor muffler

Approximate Dimensions and Weights:

Length (in/cm)	Width (in/cm)	Height (in/cm)	Dry Weight (lb/kg)
29.0 (74)	33.0 (84)	24.0 (61)	500 (227)

Frame / Pump Operator's Panel:

Frame:

High-strength, welded tubular steel frame provided to support and contain the entire CAFS unit. Constructed .083" wall steel square tubing. The sub-frame is made of 1" x 1" and 1" x 1.5: steel tubing. The enclosure is comprised of .090" aluminum plate panels with the top panel hinged for access to the unit.

All steel structural members and the aluminum plate panels are powder coated for a durable and attractive finish.

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

Phone: 651-450-5234 (Press 3)
pumps@waterousco.com

Service Assistance

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

SPECIFICATIONS – SLIDE-IN CAFSYSTEMS: 80-40-E

Air Compressor:

The air compressor is an 4-cylinder reciprocating type that is rated at 40 scfm (1.1 m³/min) equipped with a low oil pressure warning light.

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 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 1.5" brass pipe with 1.5" Elkhart tank to pump valve, controlled at the pump panel. A 1.5" overboard pump inlet is provided with a 1.5" M-NST connection and chrome plated plug.

Discharge:

Plumbing to one 1.5" discharge outlet is plumbed with brass pipe. A .75" tank fill provision with .75" quarter-turn valve is provided. Victaulic-type couplings are utilized in the discharge piping for flexibility and serviceability. 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:

- FoamPro 1601 Proportioner with 1.5" paddlewheel (Class A foam only).
- 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.