



## SPECIFICATIONS – SLIDE-IN CAFSYSTEMS: 70-35-GP-FT

### Slide Into Enhanced Portable Power

The 70-35-GP-FT is a slide-in, modular, portable compressed air foam unit designed and constructed to discharge water, foam solution or compressed air foam. The system develops a minimum of 35 GPM of water at 100 PSIG (132 L/min @ 6.9 bar) and 35 CFM of air at 100 PSIG (0.9 m<sup>3</sup>/min @ 6.9 bar) simultaneously and compressed air foam discharge pressures up to 130 PSIG (9 bar).

#### 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 and 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. Two (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. 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 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)
33.0 (84)	40.0 (102)	33.0 (84)	450 (204)

#### Frame / Pump Operator's Panel:

##### Frame:

High-strength, welded tubular steel frame provided to support and contain the entire CAFS unit. Constructed of 1-1/4" tubing with radius corners and a durable corrosion-resistant powder coat finish.

##### Pump Operator's Panel:

Engine Ignition/Start Switch  
 Engine Throttle Control  
 Engine Choke Control  
 2-1/2" Oil-Free Master Water Pressure Gauge  
 2-1/2" Oil-Free Master Air Pressure Gauge  
 Auto-Sync Compressor Pressure Controls  
 Foam Proportioner Control  
 Pneumatic Primer Controls  
 Water/Solution Discharge Valve Control, ¼-turn swing type  
 Air Discharge Valve Control, ¼-turn  
 Two (2) Shielded Pump Panel Lights

#### 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)  
 pumpsales@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 4-cylinder reciprocating type that is rated at 35 scfm (.9 m<sup>3</sup>/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

### **Compressed Air Delivery:**

All air hoses, fittings and piping are rated to a minimum of 250 psi (17.5 bar). Locations where discharge air runs at high temperatures, stainless steel wire braid reinforced Teflon hoses are used. Brass or bronze air check valves are utilized at plumbing air injection points to prevent water or foam back flow into the air lines.

### **Plumbing:**

#### ***Inlet:***

Inlet piping is 1.5" brass pipe with a 2" 3-way tank to pump / overboard suction with a 1-1/2" NST female swivel hose connection.

#### ***Discharge:***

Plumbing to one 1.5" discharge outlet is 1-1/2" brass pipe and 1-1/2" high-pressure hydraulic hose with brass or stainless steel fittings. Discharge valve is a full-flow, quarter-turn type constructed of bronze. Check valves of bronze or brass are installed in each discharge to prevent foam back flow into the water pump. A 1" tank fill valve for connection to a booster tank is also provided.

#### ***Drains:***

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

#### ***Foam Proportioners:***

- Fire Troll FT-150 System – The fire troll meters the percentage of foam concentrate, based on current flow into the water stream. A check valve ahead of the foam injection point prevents back flow. The Fire Troll control valve is mounted on the pump panel and allows for foam percentages up to 1% mix ratio.