

## BENEFITS OF COMPRESSED AIR FOAM

80% of water content in the foam is effectively used for fire fighting

Improved firefighting safety

Faster knockdown time

Less property damage

Less water used



FOAM SYSTEMS

CAFSystems™

FIRE PUMPS

MODULAR SLIDE-IN

# 70-35-GP

The 70-35-GP 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 70 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) and compressed air foam discharge pressures up to 130 PSIG (9 bar).



## SPECIFICATIONS

- Briggs and Stratton Vanguard two-cylinder, air-cooled, four-cycle engine
- Fire Troll 1.5 Foam Proportioner standard
- 23 HP (17.2 kW)
- 35 scfm (.9 m<sup>3</sup>/min) air compressor equipped with a low oil pressure warning light

## PERFORMANCE

- 70 GPM @ 100 PSI
- 265 l/min @ 6.9 bar
- 35 SCFM @ 100 PSI
- .9 M<sup>3</sup>/min @ 6.9 bar



70-35-GP Performance							
WATER	FLOW			PRESSURE			
	GPM	l/min	l/sec	PSI	bar	kPa	MPa
	70	265	4.4	100	6.8	680	0.68
AIR	CFM	M <sup>3</sup> /Min		PSI	Bar	kPa	MPa
	35	0.9		100	6.8	680	0.68

**Pump and Transmission Specifications**

- Centrifugal water pump utilizing close-grained iron case, reinforced nylon impeller, stainless steel shaft and maintenance-free mechanical seal.
- 1-1/2 inch Intake
- 1-1/2 inch Discharge
- 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.
- "Poly Chain" drive transmission with an automatic tensioner and 8mm pitch sprockets.

**Engine Specifications**

- Briggs and Stratton engine, Vanguard model 386447, 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.
- Emissions: CARB EXH/EVAP/EU
- Includes an integral 6.95 quart (6.58 liter) fuel tank.
- 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-volt electric with 16A alternator, electric ignition and start switch.
- The muffler/shield assembly is made of 5" round stainless steel.

**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)	395 (179)

**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
- Hand Operated Diaphragm Primer/Solution Discharge Valve Control, ¼-turn swing type
- Air Discharge Valve Control, ¼-turn
- Two (2) Shielded Pump Panel Lights

**Warranty**

Waterous Two-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](http://www.waterousco.com) or by

**Air Compressor:**

The air compressor is a 4-cylinder rotary screw 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" NH, NPSH or BSPP 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 Proportioner:**

- 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.

**Industry Leading Sales and Support**

When you purchase 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.

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