



FOAM SYSTEMS

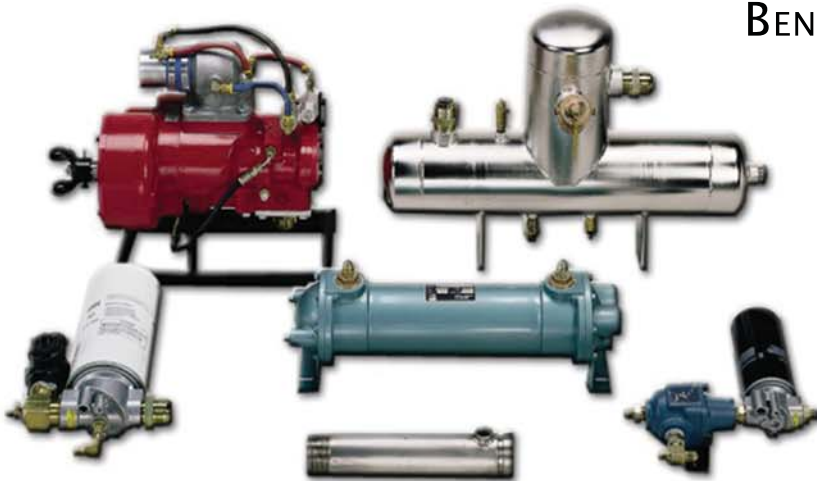
CAFSystems™

FIRE PUMPS

PTO-DRIVEN AIR COMPRESSOR KITS

# Model 80-P

80 sCFM @ 125 PSI



## 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

The Waterous Model 80-P PTO-Driven Air Compressor Kit is available as OEM installed or retrofitted into an existing apparatus. Designed to discharge water, foam solution or compressed air, the Model 80-P is equipped with an 80 sCFM Rand rotary screw compressor, integral speed increasing gear set and free on-site orientation.

## PERFORMANCE

- 80 sCFM @ 125 PSI (2.3 M<sup>3</sup>/Min)

# SPECIFICATIONS – PTO CAFSYSTEMS: MODEL 80-P

80-P Performance						
	CFM	M <sup>3</sup> /Min	PSI	bar	kPa	MPa
Air Flow	80	2.3	125	8.6	860	0.86

## Specifications

### Air Compressor:

GHH-Rand airend with tapered roller bearings and triple lip shaft seal, oil-flooded, rotary screw type, sized to supply 80 scfm (2.3 m<sup>3</sup>/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.

### Electric 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 for standby operations
- Run - Air compressor in run operation. Air pressure determined by Auto or Fixed setting.

### Air Compressor Oil System:

A spin-on, full-flow oil filter unit and a thermostatic valve are all 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 while an in-line removable strainer, on the water inlet side, prevents clogging. The system maintains recommended operating temperatures throughout the full operational range in ambient temperatures up to 115°F (46.1°C).

### Air Compressor System Protection:

A warning system in the hydraulic oil system alerts the operator of high temperature. A warning light and audible alarm are provided for mounting on the pump operator's panel.

### Controls and Instruments:

The following controls and instruments are provided for mounting on the pump operator's panel:

- Auto/Sync compressor controls w/engraved instruction plate
- Air compressor temperature gauge w/250° warning switch
- NFPA required warning and instruction plates

## Optional Equipment

### Foam Systems (Optional)

- 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 Flow Meter (Optional)

An optional air flow meter is available for mounting on the pump operator's panel. The air flow meter indicates the total air-flow in standard cubic feet per minute (0-150).

### Five-Year Limited Warranty (Optional)

### Training (Optional Deduct)

Three-day operational training is provided. As an option, no training can be requested for deduct in the price of the unit.

## Warranty

Waterous One-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 contacting Waterous.

## 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.

### Sales/Applications Assistance

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

### Service Assistance

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