

# SPECIFICATIONS – PTO CAFSYSTEMS: 80-P PTO Based Air Compressor Kits



Our PTO-driven, air compressor kits are specifically designed for installation in fire apparatus, either OEM installed or retrofitted to an in-service vehicle.

## 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

80-P Performance						
	CFM	M <sup>3</sup> /Min	PSI	bar	kPa	MPa
<b>Air Flow</b>	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

## Warranty

Waterous One-Year Limited Warranty



## Optional Equipment

### Foam Systems (Optional)

- Advantus<sup>®</sup> Foam Systems with operator interface terminal, pump module with electric motor/motor driver and microcontroller unit, foam concentrate strainer, WYE strainer, shielded electrical cables for connection of all electronic components, process manifold with flowmeter and associated components as specified
- Aquis<sup>™</sup> 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.

## 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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Fax: 800-488-1228  
service@waterousco.com



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