



## SPECIFICATIONS – PTO CAFSYSTEMS: 80-SP Silver Series Quality PTO Based Air Compressor Kits

Our Silver Series PTO-driven, air compressor kits are specifically designed for departments/brigades that are looking for more economical CAFSystems™. The 80-SP develops a minimum of 80 CFM of air at 125 PSIG (2.3 m<sup>3</sup>/min @ 8.6 bar) when matched with a foam proportioner and water pump. Units come standard with a one-year warranty and we offer optional on-site operation and maintenance instruction.



### Components:

#### Air Compressor:

Boss airend with non-tapered roller bearings and double 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.

#### Manual 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.

#### Foam Systems (Optional):

- Advantus® 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™ 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.

#### 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

#### 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).

#### On-Site Delivery Instruction (Optional)

#### Warranty:

The Silver Series air compressor system is warranted for a period of one (1) year.

### 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.

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