Air Brake Compressors

**7920 / 7921**

Automatically maintains air brake system at ready status.
- Designed for emergency vehicle use
- Automatically turns ON at 95 PSI and OFF at 125 PSI
- Industrial grade compressor provides reliable, long term operation
- Easy installation, no mounting plate required
- Integrated vibration damping mounts
- Serviceable air filter and water separator filter
- Works in conjunction with engine driven compressor
- Integrated auto drain to protect your air system

**Specifications**
- **Nominal Voltage**: 12V DC
- **Motor Type**: Permanent Magnet
- **Factory ON-OFF PSI Threshold**: ON: 95 PSI, OFF: 125 PSI
- **Maximum Amp Draw**: 11A
- **Flow Rate**: .88 CFM @ 0 PSI
- **Air Outlet**: Female 1/4" NPT

**Procedures**

1. **Compressor is moisture and splash resistant but not waterproof.**
   - Do not mount in locations where it is likely to come in contact with water.
   - Do not mount near flammable liquids.
2. **Compressor should be mounted in a location that allows for cooling.**
   - At 72° F (22° C), the compressor is rated for continuous duty up to 100 PSI (6.89 Bar)
   - The air outlet is a standard ¼" NPTF - Connect supply hose here. Supply hose must be rated for minimum of 150 PSI.
3. **Compressor should be mounted in a location that allows for cooling.**
   - The exposed filter cartridge may now be unscrewed and replaced with the filter from PN 7912.

**Wiring**

Use appropriate crimp-style terminals when stranded wire is employed.

**Automatic moisture drain hose**

Attach the 1/4" interior diameter (ID) drain hose to the barbed fitting on the auto drain solenoid valve and route the hose to an appropriate location at a level below the drain valve.

**Air outlet**

The air outlet is a standard ¼" NPT female fitting. Use an appropriately rated, flexible supply hose to minimize vibration transfer to the external lines.

**Air Inlets**

The compressor comes with an all metal air filter housing with filter elements pre-installed. For replacement filter elements use Blue Sea Systems PN 7912.

Replacing the Water Separator Filter

Remove the ¼" high pressure hose from the quick disconnect located on the bottom of the separator bowl. This is accomplished by pressing the collar at the base of the fitting inward and, while holding the collar depressed, gently push the hose inward slightly, then pull it out of the fitting.

After removing the hose, unscrew and remove the filter bowl from the separator housing.

The exposed filter cartridge may now be unscrewed and replaced with the filter from PN 7912 available from Blue Sea Systems. Clean the bowl and replace seal if required. A replacement seal ships with PN 7912.

DO NOT overtighten the filter bowl when replacing. Thread it onto the housing until it contacts the seal, then approximately ¼ turn further. Reattach the high pressure hose by placing it into the quick release connector and pushing until it seats into place. Fix the hose in position by gently pulling on it.

**Connections**

Wiring Diagrams

**Wiring Diagrams**

**Blue Sea Systems, Inc.**

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**Attach 1/8" ID Moisture Drain Hose here. High pressure hose is not required.**
NOTE:
1. The perimeter of this pattern shows the minimum footprint necessary for mounting. Consideration must be given for maintenance access, wire bend radii, intake air clearance and cooling.
2. If printing a paper template at 1:1 scale, double check dimensions of the template before using it to drill or cut material.
3. Compressor Height: Approximately 7.5 inches for both models.