

# 73 Series AA Gas Generators

## Frequently Asked Questions

Q: Where is the AA gas purifier normally used?

**A: All atomic absorption spectrophotometers that utilize compressed air as an oxidant gas and acetylene as a fuel gas.**

Q: What does the AA gas purifier do?

**A:**

- Provides a cost effective alternative to using high-pressure compressed air cylinders as the oxidant gas supply
- Allows the user to utilize the convenience of a house compressed air system or compressor rather than purchasing high-pressure compressed air cylinders.
- Effectively eliminates all inherent house compressed air oil, water, and particles to less than 1.0 ppm.
- Purifies acetylene gas by effectively removing all acetone and particles to less than 1.0 ppm.
- Allows the user to use a greater percentage of the acetylene gas cylinder without the worry of damaging acetone getting into the instrument.
- Allows the user to reduce the annual total number of acetylene cylinders used at the instrument.
- Eliminates the background noise from iron oxides.

Q: How does the AA gas purifier operate?

**A:**

- The purifier consists of two independent filtration systems conveniently packaged into simple wall-mountable package.
- Dual stage high-efficiency coalescing filtration effectively purifies the compressed air oxidant prior to entering the instrument.
- Single stage filtration effectively purifies the acetylene fuel supply.
- Integral automatic draining systems remove collected oil and water from the purifier without operator attention.
- Acetone aerosols are blocked and vaporize to pass harmlessly through the instrument.



Q: Why should an AA gas purifier be used?

**A:**

- **Effectively prevents damage to the AA burner head and prevents the associated downtime, instrument service calls and burner head replacement costs.**
- **Effectively prevents damage to the AA gas control box and prevents the associated downtime, instrument service calls and gas control box replacement costs.**
- **Older AA spectrophotometers can be difficult to get parts for, the AA purifier will help to protect what you have.**
- **Immediate payback instead of purchasing compressed air tanks.**

Q: How many instruments will an AA purifier supply?

**A: Parker recommends one purifier installed for each AA instrument.**

Q: What is required for maintenance on the AA purifier system?

**A: Parker recommends replacement of all filter cartridges once a year, order Parker maintenance kit part number 73065**

Q: What is required if an air leak occurs?

**A:**

- **Inspect the base of the two rear larger filter assemblies and verify if an automatic drain is closed.**
- **Verify that the incoming compressed air pressure is greater than 15 psig.**
- **Order and install automatic drain kit, part number 21552. Two drain kits may be required.**

Q: My oxidant gas is normally nitrous oxide for high temperature work, can I run this gas through the AA purifier system?

**A: No, contact Parker technical services at 800-343-4048 for alternate type 95A filter solution.**

Q: I have a special AA purifier system part number 73-099 how do I get parts for it?

**A: This is a special product contact Parker technical services at 800-343-4048 direct.**

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Q: How safe is the AA purifier system?

**A: There is nothing corrosive in the system and the system is pre-engineered around the strict CGA guidelines to manage acetylene. The purifier has integral back-flash Arrestor for safety and appropriate left threaded CGA fittings.**