

# PICARRO ANALYZER OPERATION AND UPKEEP

The following steps will ensure proper operation of the analyzer and reduce the occurrence of hardware issues:

## Starting the Analyzer

- 1 READ THE MANUAL:** Read the manual included with your analyzer. If you need to download a manual, go to [www.picarro.com](http://www.picarro.com) and search for your analyzer model number. Each analyzer page has a “Related Documentation” section where you can download the data sheet, manual, application notes, and other helpful resources.
- 2 SET UP CONNECTIONS:** Carefully tighten all the connections, following the manual instructions and Swagelok® best practices found on their website. Video instructions can also be found at [info.picarro.com/video-tutorials](http://info.picarro.com/video-tutorials).
- 3 SET UP POWER:** Confirm you have a stable supply of power and verify the power socket voltages specific to your region. Adjust the voltage switch on the side of the pump accordingly, selecting either 120V or 240V.
- 4 START UP:** Turn on the vacuum pump before turning on the analyzer. With the plug removed from the inlet line, power on the analyzer by flipping the rear power switch from ( 0 ) to ( | ). If the analyzer doesn't power on immediately, press the flat, silver soft-power button firmly. The Picarro software will load automatically. The analyzer will take between 20 and 60 minutes to warm up depending on the model and ambient temperature. Measurements will start automatically when the instrument cavity temperature has stabilized.
- 5 ON AND IDLE:** If not actively measuring, avoid continuous flow of dry zero air or dry carrier gas through the analyzer. Instead, allow the analyzer to run on ambient air until you begin your next measurement campaign.

## Shutting Down the Analyzer

- 1 DRY THE ANALYZER CAVITY:** Before shutting down the analyzer for long periods of time or for shipment, you must dry the analyzer by flowing dry air dried with a desiccant drier, dry zero-air, or dry N<sub>2</sub> through the analyzer (Note that it is recommended that the analyzer is kept running and measuring non-dry room or filtered air if not shutting down for long periods of time.). Wait for the analyzer H<sub>2</sub>O reading to drop. Once the reading is below 0.2% (i.e., <2000 ppm), press the shutdown button in the analyzer software. Do not disconnect the dry gas source until completing shutdown in the step below.
- 2 SHUT DOWN:** Turn off the vacuum pump after the analyzer has powered down. Cap the inlet and outlet of the analyzer if storing for long periods of time or shipping.

*Please refer to the back of this flyer for basic maintenance instructions.*

## Basic Maintenance

- 1 ANALYZER MAINTENANCE:** Picarro recommends that the user-replaceable inlet particulate filter and CPU fans are replaced annually. These items are available as part of an annual maintenance kit or can be ordered individually as well. Reach out to your sales representative or order directly from the Picarro web store at [store.picarro.com](https://store.picarro.com). Video instructions can be found at [info.picarro.com/video-tutorials](https://info.picarro.com/video-tutorials).
- 2 PUMP MAINTENANCE:** Picarro recommends that pump diaphragms are changed annually or every 15,000 hours to maintain pump performance. Reach out to your sales representative or order a pump diaphragm rebuild kit directly from the Picarro web store at [store.picarro.com](https://store.picarro.com). Video instructions can be found at [info.picarro.com/video-tutorials](https://info.picarro.com/video-tutorials).

For technical support, please email [support@picarro.com](mailto:support@picarro.com) or call +1 408-962-3991 (USA center) or +31 858-881-650 (European center).

For consumables and spare parts, please visit our web store at [store.picarro.com](https://store.picarro.com).

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