

About AIRx

AIRx Testing is certified by the California Air Resources Board (CARB) to perform Continuous Emissions Monitoring (CEM), Particulate Matter (PM) and Hydrocarbon (HC) emissions testing in California. Airx Testing also performs system optimization test programs throughout California as requested.

AIRx Testing has five fully outfitted testing vans capable of simultaneously sampling the inlet and outlet of emissions control devices for nitrogen oxides (NO_x) and oxygen (O₂), as well as sampling emissions for carbon dioxide (CO₂) carbon monoxide (CO) and continuous sulfur dioxide (SO₂) monitoring. The test vans are set up to perform complete isokinetic sampling for various pollutants such as particulate matter, sulfuric acid, sulfur dioxide, hexavalent chromium, lead, miscellaneous



AIRx Testing is certified with California Air Resources Board (CARB) and South Coast Air Quality Management District (SCAQMD).

metals, acids and other hazardous contaminants that must be sampled using isokinetic methods. Field data is collected and compiled by computer. Upon request, a complete list of the analyzers used by AIRx Testing are available. The AIRx Testing QA/QC program is designed to produce reliable results in the field and in the laboratory. This program includes written procedures, standard forms, log books and computer databases to check, track, compile and calculate results.



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AIRx Testing

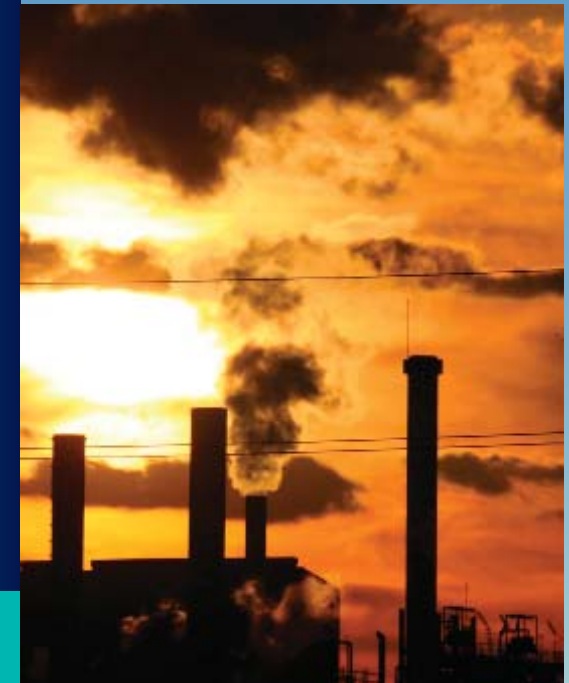
AIRx Testing has provided source emission testing services for over 15 years and is experienced in developing customized testing sequences to suit specific testing requirements. Our staff has performed thousands of source tests accurately and reliably over the years. Moreover, AIRx Testing is adept at developing and implementing new or unusual testing procedures as necessary. AIRx Testing also designs and fabricates specialty equipment to collect and analyze pollutants.

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Testing Methods

Source Testing Services to fit your needs!



Onsite VOC Sampling

AIRx Testing performs a full range of emission test procedures to measure volatile and semi-volatile organic emissions and control efficiencies. On-site emission measurements are performed using flame ionization and photoionization detector-based analyzers. These emission measurements utilize our custom gas handling and conditioning systems. In some instances, test methods require sampling using trap or canister-type collection techniques with subsequent laboratory analyses.

Particulate Testing

For some customers, testing for particulate matter may be their only air testing requirement. With multiple particulate sampling trains, available throughout our grid of offices, AIRx Testing has the ability to provide PM_{2.5/10'} filterable and condensable particulate matter sampling on any project scale.

Our laboratory provides complete gravimetric analysis for the samples collected. All of the equipment used is calibrated to meet or exceed governmental standards to ensure each test meets government and industry requirements. It does not matter if the particulate tests are on a single or a multiple source, we can provide a cost-effective testing solution for these services.

Engineering Testing

Is your combustion process optimized for maximum output and minimal pollutant emissions? Is the flow of exhaust gas properly balanced through your air pollution control system? Whether starting up a new process or modifying an existing one, being able to answer questions like these can affect your outage duration and frequency, compliance with air quality permits, and ultimately, the bottom line cost at your facility. Through the use of our mobile labs and our site specific 3rd party contractors, we can help you maintain the maximum efficiency of your equipment, thereby maintaining compliance with permit emission limits.

VOC in Lab

Our quality assurance program verifies the results generated in-house and by subcontract laboratories. Our in-house laboratory reviews internal operations and techniques, the work of contract laboratories and the accuracy of our reports. Outside laboratories must pass our frequent and rigorous quality control audit to ensure they meet the highest quality standards. Our environmental support services ensure we apply published, recognized technical methods and standards, quality control, and new standards and methods used in environmental technology and law.

Accurate Emissions Measurements

AIRx Testing performs a full range of emission test procedures to measure volatile and semi-volatile organic emissions and the determination of control efficiencies, including dioxins, furans, PAH and PCBs. On-site emission measurements are performed using flame ionization, photoionization or non-dispersive infrared detector-based analyzers. AIRx also performs Ammonia Analysis on-site and in the laboratory according to approved SCAQMD and BAAQMD methodology. These emission measurements use our custom gas handling and conditioning systems. In some instances, test methods require sampling using trap or canister-type collection techniques with subsequent laboratory analyses, including mass spectrometry.

PM_{2.5} & PM₁₀

AIRx Testing emissions testing personnel define the cutting edge of technology for characterizing PM₁₀ and PM_{2.5} emissions factors, size distribution including ultrafines and chemical speciation profiles from combustion and process sources. AIRx Testing can help to provide more accurate measurement of emissions from gas turbines, boilers, process heaters, cement plants and reciprocating engines.

RATA Testing

Any facility that operates Continuous Emissions Monitoring Systems (CEMS) is likely to be required to conduct Relative Accuracy Test Audits (RATAs) on those systems on a regular basis. In many cases, small errors due to testing inaccuracy can result in significant economic loss through unit de-rating, excess emissions credit costs and repetition of erroneous tests. Application of quality assurance procedures help minimize errors and maximize testing efficiency.

Low Level CEM Testing

In many regions of the world, new combustion turbine installations must reduce nitrogen oxide and carbon monoxide emissions to single-digit (ppm) concentration levels. Special techniques and equipment are required to obtain accurate data at this level, especially when interfering species such as ammonia are present. Small errors in testing accuracy can result in significant economic losses through unit de-rating, excess NO_x and CO credit costs, RATA bias, increased operating costs and repetition of the compliance testing.

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