



Zero Gases for Environmental Applications

Setting New Standards of Purity

The U.S. Environmental Protection Agency (EPA) regulations 40 CFR Parts 60 and 75, state that the zero grade air or zero grade nitrogen used for Continuous Emission Monitoring (CEM) must contain no detectable concentration of the pollutant of interest. Furthermore, the zero gas should contain no contaminate that causes a detectable response to the analyzer or that suppresses or enhances the analyzer's response. If the zero gas is not certified to be free of critical contaminants, it could be out of compliance.

The Purity and Reliability You Need

Praxair's CEM Zero Air and CEM Zero Nitrogen are developed to meet the stringent requirements of the U.S. EPA 40 CFR Parts 60 and 75. Our manufacturing and certification specifications meet industry standards as well as federal, provincial, state and local regulations.

Clean, Convenient Packaging

Praxair's CEM Zero Air and CEM Zero Nitrogen are packaged in aluminum cylinders. This standard size cylinder (AS) holds 145 ft³ of air and 143 ft³ of nitrogen. Larger and smaller containers are also available.



Product Specifications

	CEM Zero Air	CEM Zero Nitrogen
Part Number	AI 0.0CE	NI 5.5CE
H ₂ O	<2 ppm	<2 ppm
CO ₂	<0.3 ppm	<1 ppm
CO	<0.05 ppm	<0.5 ppm
O ₂	19.9 -21.9%	<0.5 ppm
THC	<0.05 ppm	<0.05 ppm
NO _x	<0.01 ppm	<0.01 ppm
SO ₂	<0.01 ppm	<0.01 ppm

- Meets all U.S. EPA zero and calibration gas standards
- Stocking programs available
- Immediate delivery via Praxair truck to most locations
- Over 400 distribution locations nationwide to serve you.
- Available in light-weight aluminum cylinders.

Complete specifications for additional grades of air and nitrogen can be found on page C2 (air) and C45 (nitrogen).

Gas Handling Solutions

Further enhancing our Environmental Monitoring Products offering is our complete line of gas handling, distribution and safety equipment. Praxair's gas handling solutions are designed to help you preserve the purity of your mixture and ensure the correct gas flow and delivery pressure. It also makes your application safe and easy to use.

See Section F for our complete line of high quality gas handling solutions.

■ Regulators	F1-F36
■ Gas Delivery Systems	F37-F57
■ Flow Devices	F58-F73
■ Gas Generators	F74-F80
■ Purifiers/Filters	F81-F90
■ Cryogenic Products	F91-112
■ Accessories	F113-123
■ Gas Detection Systems	F124-F134
■ Safety Apparatus	F135-F137

Critical Purity Regulator for Non-Corrosive Service

Praxair's 412 Series regulators are intended for primary pressure control of non-corrosive, high purity gases or for applications requiring constant pressure and delivery regardless of supply pressure. See page F5 for complete specifications.

Part Numbers

Zero Air	PRX 412-2301-590
Zero Nitrogen	PRX 412-2301-580



Protocol Station

Convenient wall mount for dual stage brass regulators, including tee, bracket, and flexible steel pigtail with check valve in the inlet gland. See page F36 for complete details.

Part Numbers

Zero Air	PRX 529-0104-590
Zero Nitrogen	PRX 529-0104-580

