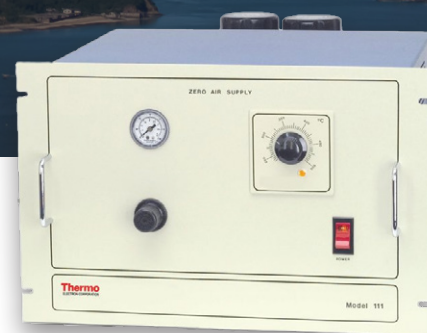


Air quality monitoring

Thermo Scientific Model 111 Zero Air Supply

Designed for NO, NO₂, O₃, SO₂, CO and hydrocarbon requirements



Model 111 Zero Air Supply

The Thermo Scientific™ Model 111 Zero Air Supply uses an external compressor; the pressure regulators, chemical scrubbers, reactor and temperature controller are all contained in a single convenient case.

- Critical components are self contained
- Limited Maintenance
- Exceptional ease of use

The Thermo Scientific Model 111 Zero Air Supply uses an external compressor; the pressure regulators, chemical scrubbers, reactor and temperature controller are all contained in a single convenient case.

Designed for any application where pollutant free levels of NO, NO₂, O₃, SO₂, CO and hydrocarbons are required, with flows up to 20 liters per minute at pressure of 30 PSI.

The room air enters the compressor, where it is raised to a pressure of 80-90 PSI. The output of the compressor contains a coalescing filter and a pressure regulator where the pressure is reduced to 70 PSIG.

The air then passes into a column of Purafil (potassium permanganate on alumina) which oxidizes NO to NO₂. Finally, the air passes through a column of activated charcoal which removes NO₂, SO₂, O₃ and hydrocarbons.

Lastly, the air then goes into the reactor where it is heated to 350°C over a catalytic surface which converts CO to CO₂ and any remaining hydrocarbons, including methane, to water and CO₂. This process results in a pollutant free stream of air.

Thermo Scientific Model 111 Zero Air Supply

Specifications	
Pressure	10 - 30 PSI
Standard Flow	0-10 liters/min
Water Vapor	0°C Dew point
Physical Dimensions	Size 15" (D) x 19" (W) x 12.25" (H) 381 mm (D) x 482.6 mm (W) x 311.15 mm (H)
	Weight 20 lbs. 9.07 kg
Compressor	Size 120" (D) x 12" (W) x 17" (H) 508 mm (D) x 304.8 mm (W) x 431.8 mm (H)
	Weight 40 lbs. 18.14 kg
Flow Rate	0-10 LPM Standard 0-20 LPM (Optional)
Pollutant Concentration Levels	CO < 20 ppb HC < 0.1 ppm NO < 0.5 ppb NO ₂ < 0.5 ppb O ₃ < 0.5 ppb SO ₂ < 0.5 ppb H ₂ S < 0.5 ppb NH ₃ < 0.5 ppb

Ordering Information

Model 111 Zero Air Supply

Choose from the following configurations/options to customize your own Model 111

1. Voltage Options:

A = 120 Vac 60 Hz
B = 220 Vac 50/60 Hz

2. Compressor Size:

1 = No Compressor
2 = 10 LPM Compressor
3 = 20 LPM Compressor

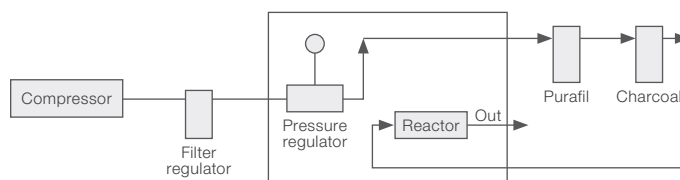
3. CO Reactor:

N = No CO Reactor
R = CO Reactor Setup

Options:

- Rack Mount
- Rear Extender

Flow Diagram: Model 111 Zero Air Supply



To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific products. For more information on our comprehensive service solutions, visit thermofisher.com/epmservice

Your Order Code: Model 111 -

Learn more at thermofisher.com/111zeroairsupply