

Thermo Scientific Model 111 Zero Air Supply

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

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

Pressure	10 - 30 PSI	
Standard Flow Rate	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	< 0.1 ppm
	HC	< 0.1 ppm
	NO	< 0.5 ppb
	NO ₂	< 0.5 ppb
	O ₃	< 0.8 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:

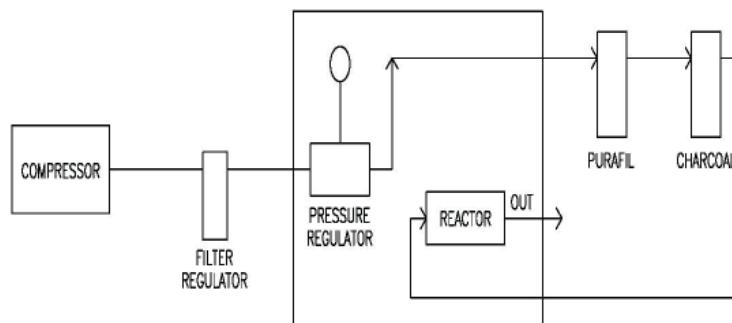
N = No CO Reactor
R = CO Reactor Setup

Options:

- Rack Mount
- Rear Extender

Your Order Code: Model 111 - _ _ _ _

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, visit our website at thermoscientific.com/ambient

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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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