

Thermo Scientific Model 1160 Zero Air Supply

Modular tool for laboratory calibration services where pollutant-free air is required

The Thermo Scientific™ Model 1160 Zero Air Supply is a source of ultra high purity zero air for analytical and process instrument needs. This modular unit can be configured for the removal of a variety of pollutant gases. Up to 20 liters per minute of clean dry air can be supplied at pressures up to 60 psig via a self-contained compressor.

- The ability to select one, two, or three scrubbers with customer option of scrubber materials
- A choice of dryer types or no dryer at all
- With or without CO and Hydrocarbon reactor
- Temperature alarms for system applications
- 20 liters per minute supply of air



The Thermo Scientific Model 1160 Zero Air Supply can be used for the calibration of environmental instrumentation or as an air supply in analytical laboratories.

The air supply can be configured to operate with or without an internal compressor. If dry air is required, two types of dryers are available: a membrane dryer which will supply the air at a nominal dew point of +5° C or a regenerative or heatless dryer with an output of - 40° C if the internal compressor is chosen, one of these two dryers should also be selected. When the removal of CO or Hydrocarbons is desired, a catalytic converter is available and for scrubbing of most other pollutants chemical scrubbers can be installed.

A choice of one, two or three scrubber cartridges can be chosen. These scrubber cartridges can be filled with a variety of materials to suit the application, including; charcoal, silica gel or other absorbent, Purefil, Soda Lime, Mole Sieve, and more.



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Pressure	10 - 60 PSIG
Flow rate	0-20 liters/min
Dew point	Membrane Dryer: -10°C Heatless Dryer: -40°C
Operating Temperature	-10°C to -40°C
Physical Dimensions	24" (D) x 19" (W) x 12.24" (H). 85 lbs. fully equipped 400 mm (D) x 483 mm (W) x 315 mm (H). 38.6 kg full equipped
Power Supply	100 to 240 VAC, 50/60Hz (+/-10%), Instrument: 30 Watts, Pump: 100 Watts
Pollutant Concentration Data	Other compounds available upon request SO ₂ < 0.1 ppb NO < 0.1 ppb NO ₂ < 0.1 ppb O ₃ < 0.4 ppb H ₂ S < 0.1 ppb NH ₃ < 0.1 ppb CO < 0.02 ppm (Optional) HxCx < 0.005 ppm

Ordering Information

Model 1160 Zero Air Supply

Choose from the following configurations/options to customize your own Model 1160

1. Voltage Options:

A = 120 VAC 60 Hz (North America & Equivalent)
B = 220-240 VAC, 50 Hz (Europe)
C = 220-240 VAC, 50 Hz (United Kingdom)
D = 240 VAC, 60 Hz (North America & Equivalent)
J = 100 VAC, 50/60 Hz (Japan)
K = 220 VAC, 50/60 Hz w/ China power cord

2. Compressor Size:

N = No internal compressor
H = High volumetric flow compressor

3. Dryer:

N = No internal dryer (only available with NO internal compressor)
P = +5°C Permeation (membrane) dryer
R = -40°C Regenerative (heatless) dryer

4. Gas Purifiers:

1* = Single stage scrubber
2* = Dual stage scrubber
3* = Three stage scrubber
*Includes selection of scrubber media from the options below

5. CO/VOC Handling:

N = No catalytic converter
C = Catalytic converter

Scrubber Media Options:

- Drierite
- Charcoal
- Purafill

Your Order Code: Model 1160 - _____

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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