



Thermo Model 49C-PS (Primary Standard)



The 49C-PS Includes:

- Ozone Calibrator
- Power Cable
- Manual
- Instrument Rental Shipping Carton

Specifications:

- Range: 0-50, 100, 200, 500, 1000, 2000, 5000 ppb;
0-100, 200, 500, 1000, 2000, 5000, 10000 $\mu\text{g}/\text{m}^3$
- Zero Noise: 0.5 ppb RMS
- Lower Detectable Limit: 1 ppb
- Response Time: 20 seconds (0-95%)
- Lag Time: 10 seconds
- Precision: 1 ppb
- Linearity: $\pm 1\%$ Full-scale
- Flow Rate: 1-3 liters/min.
- Operating Temperature: 0-50° C
- Power Requirements: 105-125; 100 watts
- Physical Dimensions: 16.75" w x 8.62" h x 23" d
- Weight: 35 lbs.
- Outputs: Selectable voltage, RS-232

Ozonator:

- Output: 0.025-1.000 ppm at 3-4 liters/min.
- Response: (to 99% or 4 ppb of final value, whichever is greater) 1 minute
- Stability: ± 4 ppb or $\pm 1\%$ of reading, whichever is greater

Rental/Application Notes:

- U.S. EPA specified method of calibration for ozone monitors.
- The instrument determines the ozone concentration by computing the attenuation ratio of light, due to ozone absorption, from the two half cycles. The ozone concentration is directly related to the attenuation ratio via the Beer-Lambert law.
- A source of zero air is needed for calibration. Zero air is available from CleanAir Instrument Rental.
- Equipment must be returned in its original packaging.