

Model 703E Ozone Calibrator

UV Ozone Calibrator

High accuracy ozone calibration device that can be used as a primary or transfer standard for calibration of ozone analyzers and monitors. Capable of storing up to 50 programmable calibration sequences in memory.



Product ID: **API-703E**
Lead Time: **4 weeks**

Features

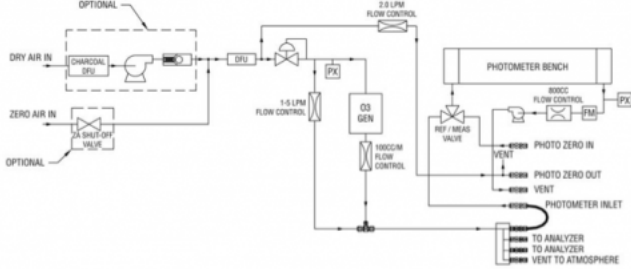
- Can be configured as a Primary or Transfer Standard
- Integrated Ultra-Stable Ozone Generator
- Microprocessor-based with simple, multitasking, menu-driven software
- Choice of three feedback control modes
- Temperature and Pressure Compensated
- Advanced E-Series Electronics
- Up to 50 Calibration Sequences
- Output Concentrations from 50 ppb to 5 ppm
- Flow Adjustable from 1 LPM to 5 LPM
- Internal Pumps
- Inlets for External Ozone Reference Sources

Specifications

Flow Rate (O3 Gen)	1 LPM to 5 LPM (user adjustable)
Generation Response Time	at 95% of selected value within 20 seconds
O3 Detection Ranges:	0 - 100 ppb to 0 - 10 ppm (user selectable)
Zero Noise	0.3 ppb (RMS)
Span Noise	< 0.5% of reading above 100 ppb (RMS)
Zero Drift	< 1.0 ppb / 7 days
Span Drift	< 1% / 24 hours, < 2% / 7 days
Power	100V - 120V, 220V - 240V, 50/60Hz
Approvals:	CE, others
Dimensions (HxWxD):	7" (178mm) x 17" (432mm) x 24" (609mm)
Weight	50-lbs (23 kg)
Maximum O3 Concentration	5.0 ppm at 1 LPM
Minimum O3 Concentration	50 ppb at 2 LPM
Lower Detectable Limit (LDL)	0.6 ppb (RMS)
Lag Time	< 10 seconds
Linearity	1% of reading
Precision	1.0 ppb
Bench Row Rate	800 cc/min +- 10%
Operating Temperature Range	5 - 40 C
Analog Outputs	+/- 100mV 1, 5, 10 volts
Digital Control Outputs	12 opto-isolated outputs
Digital Control Inputs	12 opto-isolated inputs
Digital Status Outputs	8 outputs

Model 703E Ozone Calibrator Schematic

Schematic



Schematic of the API-703E Ozone Calibrator, illustrating the feedback loop which helps maintain highly accurate ozone levels.