



The Model T700 Dynamic Dilution Calibrator



The Model T700 uses highly accurate mass flow controllers for a wide range of gas delivery concentrations and may be equipped with an optional UV ozone generator, photometer, and gas phase titration (GPT) chamber for accurate, dependable ozone calibrations.

— With NumaView™ premium T Series software —

- Large, vivid, and durable color touchscreen display
- Lifetime technical support by phone and email
- All other T Series instrument platform features
- Standard two-year warranty



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T700 Specifications

Dilution System	■ Flow Measurement Accuracy	± 1% of full scale
	■ Repeatability of Flow Control	± 0.2% of full scale
	■ Linearity of Flow Measurements	± 0.5% of full scale
	■ Flow Range of Dilution Air	0 - 10 SLPM
	■ Optional Ranges	0 - 5 SLPM, 0 - 20 SLPM
	■ Flow Range of Cylinder Gases*	0 - 100 cc/min
	■ Optional Ranges	0 - 50 cc/min, 0 - 200 cc/min (others available)
	■ Zero Air Requirements	10 SLPM @ 30 psi
	■ Optional Ranges	20 SLPM @ 30 psi
Ozone Generator Module** (Optional)	■ Calibration Cylinder Gas Input Port	4 (configurable)
	■ Diluent Gas Input Port	1
	■ Maximum Output	6 ppm LPM
UV Photometer (Optional)	■ Minimum Output	100 ppb LPM
	■ Response Time	180 seconds to 98%
	■ Range	0 - 100 ppb to 0 - 10 ppm (selectable)
	■ Precision	1.0 ppb
	■ Linearity	1.0% of reading
	■ Rise/Fall Time	< 20 seconds (photometer response)
Electrical Specifications	■ Response Time	180 seconds to 95% (system response)
	■ Zero Drift	< 1.0 ppb/24 hours
Communication Specifications	■ Power Requirements	85V - 264V, 47Hz - 63Hz
	■ Analog Output Ranges (Test Channel)	10V, 5V, 1V, 0.1V (selectable)
Physical Specifications	■ Included I/O	1 x Ethernet: 10/100Base-T 2 x RS232 (300-115,200 baud) 2 x USB device ports 12 x digital control outputs 12 x digital control inputs 8 x digital status outputs
	■ Optional I/O	1 x USB com port 1 x RS485 Multidrop RS232
	■ Operating Temperature Range	5 - 40°C
	■ Dimensions (H x W x D)	7" x 17" x 24" (178 x 432 x 609 mm)
	■ Weight	31 lbs (14.06 kg) 39.2 lbs (17.78 kg) with photometer, GPT, and O ₃ generator options

* Can select 3rd MFC option for wider dynamic range

** GPT mixing chamber is included with the O₃ Generator Module Option

Specifications subject to change without notice.
All specifications are based on constant conditions.



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