



## Model T701 Zero Air System

The T701 adds Modbus TCP/IP connectivity to the proven reliability and performance of our zero air systems. This allows remote monitoring of key instrument functions including dewpoint status, scrubber temperature, box temperature, and output pressure. Additionally, this digital access provides the ability to remotely disable the internal pump, allowing longer service intervals and less power consumption. The user can also remotely start instrument warm-up prior to arrival at the site.

The T701 is a fully self-contained source of clean, dry air for dilution calibrators. It can also be used to create purge air for permeation tube ovens or burner air for FID analyzers. The T701 includes a dewpoint sensor, an oil and diaphragm-free pump, and scrubbers to remove SO<sub>2</sub>, NO, NO<sub>2</sub>, O<sub>3</sub>, NH<sub>3</sub> and H<sub>2</sub>S. Optional high performance scrubbers are available to remove CO and Hydrocarbons.

The regenerative, heatless dryer removes water and produces output with a dewpoint of less than -20°C (up to 15 SLPM flow rate). The system's pressure, temperature, and dew point values are all continuously monitored, which allows a microcontroller to adjust the pump cycling frequency, valve timing, and heater power for optimal performance.

- ▶ **Modbus Connectivity**
- ▶ **Dewpoint Sensor**
- ▶ **Once/year maintenance interval**
- ▶ **Regenerative, heatless dryer for maintenance-free water removal**
- ▶ **Long-life scrubbers for SO<sub>2</sub>, NO, NO<sub>2</sub>, O<sub>3</sub>, NH<sub>3</sub> and H<sub>2</sub>S**
- ▶ **Optional CO or CO/Hydrocarbon scrubber**
- ▶ **Automatic water drain**
- ▶ **Automatic pump control with demand tank**
- ▶ **Two-year warranty**

*Free Customer Support by telephone and email for the life of the instrument*

## Specifications

### General

Output:	18 SLPM at 30 psig
Max Delivery Pressure:	35 psig
Dewpoint:	-20°C up to 15 SLPM / -10°C above 15 SLPM
Dryer:	Regenerative heatless dryer with lifetime of greater than 5 years
Output Concentration:	SO <sub>2</sub> < 0.1 ppb H <sub>2</sub> S < 0.1 ppb NO < 0.1 ppb NO <sub>2</sub> < 0.1 ppb NH <sub>3</sub> < 0.1 ppb O <sub>3</sub> < 0.4 ppb CO < 20 ppb (requires optional scrubber) Hydrocarbons < 5 ppb (requires optional scrubber)
Compressor:	Dual-cylinder, internal long life, oil-less piston pump

### Electrical Specifications

Power Requirements:	115V, 60 Hz
	220-240V, 50/60 Hz

### Physical Specifications

Operating Temperature Range:	5 - 40°C
Dimensions (HxWxD):	8.75" x 17" x 28" (22.2 cm x 43.2 cm x 71.12 cm)
Weight:	56 lbs. (25.4 kg) without options

### Mounting

Bench type (standard)
Rack mount (optional)

## How to Order

### Model T701 includes:

- Two year warranty
- RS-232 port
- Ethernet port
- Dewpoint sensor

### Options:

- Rack mount brackets (19")
- Rack mount with slides
- CO Scrubber
- Hydrocarbon & CO Scrubber
- 13 SLPM flow restriction

The values expressed above are in accordance with EPA definitions. All error specifications are based on constant conditions. Specifications exceed US EPA and Eignungsgeprüft requirements. Specifications subject to change without notice. Printed documents are uncontrolled. SAL0000830 (DCN 7253) T701/05.05.16



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