



## Model T701H High Performance Zero Air System

The T701H adds Modbus TCP/IP connectivity to the proven reliability and performance of our high purity zero air system. 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 T701H is a fully self-contained source of high purity zero air for dilution calibrators. It is ideal for use with highly sensitive analyzers in ambient background and trace level applications. The T701H includes a dewpoint sensor, an oil and diaphragm-free pump, 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, plus high performance scrubbers to remove CO and Hydrocarbons.

The regenerative, heatless dryer removes water and produces output with a dew point less than -40°C (up to 30 SLPM flow rate). The system's pressure, temperature, and dewpoint 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**
- ▶ **Trace Level output purity**
- ▶ **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**
- ▶ **High performance 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:	30 SLPM at 35 psig
Max Delivery Pressure:	35 psig
Dewpoint:	-40°C
Dryer:	Regenerative heatless dryer with lifetime of greater than 5 years
Output Concentration:	SO <sub>2</sub> < 0.025 ppb H <sub>2</sub> S < 0.025 ppb NO < 0.025 ppb NO <sub>2</sub> < 0.025 ppb NH <sub>3</sub> < 0.025 ppb O <sub>3</sub> < 0.3 ppb CO < 10 ppb HC < 0.25 ppb
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:	69 lbs. (31.3 kg)

### Mounting

Bench type (standard)
Rack mount (optional)

## How to Order

### Model T701H includes:

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

### Options:

- Rack mounts and slides
- Rack mount brackets only
- Carrying Handle
- 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. SAL000084B (DCN 7086) T701H/04.27.15

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