Process Insights™
Premium Insights Into Process

REAL-TIME GAS ANALYZERS

PRODUCT DATASHEET

MAX300-AIR™

Environmental Mass Spectrometer

Fast Response

Process Control

Stable Measurement

- Ambient Air Monitoring
- Flare Gas Analysis
- Industrial Health and Safety

MAX300-AIR System Specifications

Power Supply Options:
- 110 VAC, 50/60 Hz, Two 15 Amp circuits
- 230 VAC, 50/60 Hz, One 20 Amp circuit

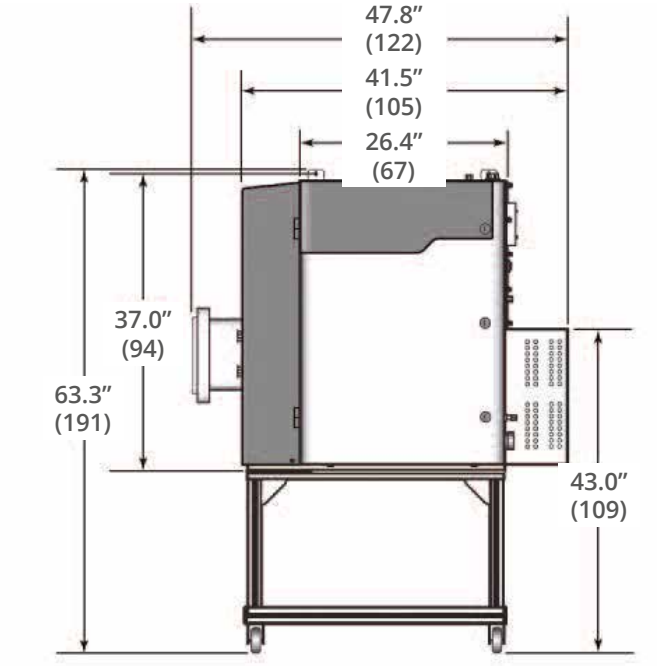
Power Consumption:
- Nominal 2500 Watts
- Startup 2750 Watts
- Heat Load: 2500 Watts (8500 BTU/Hr)

Weight:
- Standard Enclosure: 420 lbs (190 kg)
- ATEX Enclosure: 560 lbs (254 kg)
- Optional cart: 40 lbs (18 kg)

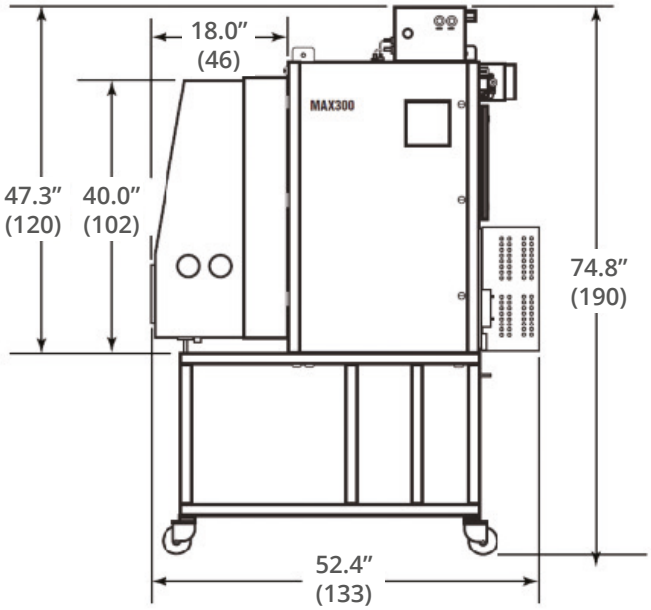
Ambient Requirements:
- Temperature: -4°F to 120°F (-20°C to 49°C)
- With A/C, cold start ≥54°F (12°C)
- Area Classification Options:
- General Purpose
- Class 1, Division 2 Groups B, C, D, T3
- Class 1, Division 1 Groups B, C, D, T3
- ATEX Zone 1 or Zone 2, Group II B +H2, T4

Additional Utilities:
- Purge gas (for hazardous area installations)
- Base calibration requirement: 2 gas bottles

Data System and Communications:
- System control interface options: Ethernet, RS-422 4-wire
- Login security levels: Administrator, User, Viewer
- External communications:
  – Ethernet, Modbus serial, digital I/O, analog I/O, OPC



MAX300-AIR standard enclosure dimensions with A/C and Cart



MAX300-AIR ATEX enclosure dimensions with A/C and Cart

Dimensions shown in inches [cm]

Exceptional Worldwide Service and Support

For over 50 years, we have been committed to providing the highest quality support services for the thousands of instruments installed worldwide. Factory trained and certified personnel offer industry-leading support to our customers at every stage of the environmental monitoring application.

SPECIFICATIONS

System Highlights:	
Detectable compounds	Any gas or vapor sample
Detection range	100% - 10 ppb standard, 10 ppt with membrane inlet*
Number of sample streams	16, 31,40, 80, 120, 160+
Analysis rate	<0.4 seconds per component
Number of components	Unlimited
Number of analysis routines	Unlimited
Number of user configurable data tags	Unlimited
Analysis precision	<0.25% relative standard deviation**
Stability	<0.5% relative standard deviation over 30 days**
Dual filaments	One active and one spare with automatic switchover
Maintenance	Typically two PMs per year
Manual or fully-automated calibration and validation	
Mass range option	1-200, 300, or 500 amu
19 mm high-transmission quadrupole filter	

* Documented on trace benzene in air.

** Based on the analysis of 1% argon.

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REAL-TIME GAS ANALYZERS

GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and delivers premium sensors, monitors, detectors, analyzers, instrumentation, and software that are mission-critical to keep your operations, personnel, and the environment safe – every day across the globe.

Get the most reliable, precision analytical technologies available on the market today. We will work to match your needs and budget, and provide the optimal, and most stable process analysis solution for your application.

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Process Insights is committed to solving our customers' most complex analytical, process, and measurement challenges everyday.

Process Insights – The Americas

4140 World Houston Parkway Suite 180, Houston, TX 77032, USA +1 713 947 9591

Process Insights – EMEA

ATRICOM, Lyoner Strasse 15, 60528 Frankfurt, Germany +49 69 20436910

Process Insights – APAC

Wujiang Economic and Technology, Development Zone, No. 258 Yi He Road, 215200 Suzhou, Jiangsu Province, China +86 400 086 0106

For a complete range of products, applications, systems, and service options, please contact us at:
info@process-insights.com

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