



AMA Instruments GmbH

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Reliable supply of organic impurity free air

HP Zero Air Generator – ZAG 300

The ZAG 300 series of HP Zero Air Generators removes continuously organic impurities and carbon monoxide from a compressed air stream. This zero air being free of hydrocarbons can be used to fuel combustion detectors of online GC's or THC analyzers in field installations or as a zero reference or dilution gas for validation and calibration of monitoring devices.

For zero air generation the compressed air passes through a heated palladium catalyst chamber. Catalytic oxidization and decomposition of hydrocarbons in this catalyst chamber, which is heated up to a temperature as high as 480°C, ensures highly efficient removal of carbon monoxide and organic impurities. Finally particles, acid gases and water vapor will be removed by a high-grade outlet filter to protecting analytical instruments and calibrators being installed downstream of the zero air generator.

The ZAG 300 HP Zero Air Generator has been designed for 19" rack mounting and complements ideally analyzers for process, emissions and environmental monitoring applications in the field. The rugged design ensures reliable operation in industrial installations and requires minimal maintenance.

TECHNICAL DATA

General

Enclosure	19" plug-in case
Height	4 height units
Depth	460 mm
Weight	11 kg
Mounting	designed for cabinet/rack mounting
Ambient temperature	5°C to 35°C
Humidity	5% to 80% relative humidity, non-condensing
EMC	CE-marking, conformity with EMC-guidelines 2004/108/EC
HC removal	high performance heated platinum catalyst
Start-up time	50 min
Instrument status	"READY" and "ERROR" status LED's on front panel

Zero air specifications

Flow rate / versions	max. 6 l/min
Purity	< 0,05 ppm HC, free of hydrocarbons \geq C2
Delivery pressure	max. 6,5 bar

Instrument supply

Power supply	220-250 VAC, 100-120 VAC (optional)
Line frequency	50 to 60 Hz
Power consumption	max. 600 W
Inlet air quality	clean and dry compressed air, free of oil, dew point < -20°C, HC content max. 100 ppm

Connections

Compressed air inlet	1/4" bulkhead union, stainless steel
Zero air outlet	1/4" bulkhead union, stainless steel

Communication

Communication ports	2 x RS-485 for field bus communication via Modbus RTU
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