

HiQ[®] specialty gas generators. The Ultra Zero Air series.



Description

Pure air is commonly used in the chromatographic world mainly as fuel for flames in detectors such as Flame Ionisation Detectors (FIDs) and Flame Photometric Detectors (FPDs). The advantage with the Ultra Zero Air series is that it helps creating a truly flat baseline. The pure air can be delivered in classic gas cylinders or be produced on site from oil-free compressed air. Designed with safety and convenience in mind, this system will generate purified and hydrocarbon-free air from an existing in-house oil-free compressed air supply.

The Linde "ZAU" Ultra Zero Air generators reduce HC, NO_x and SO₂ pollutants to less than 0.1 ppm, CO₂ to less than 5 ppm and remove all kinds of particles. In the lab, they provide several advantages. Eliminating the need to use and store high-purity air in cylinders saves valuable laboratory floor space. The generator can also be wall-mounted, providing yet another way of saving space. Using an on-site gas generator also eliminates the need to recalibrate instruments after replacing empty cylinders with full ones. The operation of the generator requires low levels of electrical power. This complete turnkey system is engineered with the highest quality components, is easy to install, and requires only minimal annual maintenance. The "ZAU" Ultra Zero Air generator models utilise a 5-stage process to purify ambient air into high-purity analytical grade air. All main components are manufactured with high-grade stainless steel and installed systematically in cabinets for easy access and service.

Product outlet purity

Hydrocarbons	< 0.1 ppm
Carbon dioxide	< 5 ppm
Carbon monoxide	< 0.1 ppm
Nitrogen oxides	< 0.1 ppm
Sulfur oxide	< 0.1 ppm
Ozone	< 0.1 ppm
Dew point	< 70 °C / < 158 °F (< 2.5 ppm)
Particles > 0.5 micron removed	99.99%

Maximum inlet impurities

Hydrocarbons	100 ppm
Carbon dioxide	500 ppm
Carbon monoxide	100 ppm
Nitrogen oxides	50 ppm

Specifications

Maximum outlet flow	1.5; 3.0; 6.0; 15; 30 LPM
Maximum outlet pressure	6.5 bar/94 psi g
Outlet air temperature	+15 °C/+59 °F (ambient)
Outlet port	1/8" compression fitting
Pressure drop at max. flow	1 bar/15 psi g
Inlet air pressure range (regulated to 7 bar/100 psi g)	4.5-10 bar/65-145 psi g
Maximum inlet temperature	40 °C/104 °F
Maximum relative humidity	80 %
Inlet port	1/4" compression fitting
Power source	115/230 VAC
Dimensions (W x H x D)	47 x 40 x 25 cm/18 x 16 x 10"

Generator and shipping weights

Models	ZAU 1500	ZAU 3000	ZAU 6000	ZAU 15000	ZAU 30000
Generator	15 kg/33 lbs	15 kg/33 lbs	21 kg/46 lbs	25 kg/55 lbs	25 kg/55 lbs
Shipping	22 kg/48 lbs	22 kg/48 lbs	29 kg/64 lbs	35 kg/77 lbs	35 kg/77 lbs

Certification



Compliant

**Warranty**

One (1) year on parts and labor

Ordering details

Model	HiQ® code	Description
ZAU 1500	5765	Ultra Zero Air generator 1,500 ml/min
ZAU 3000	5766	Ultra Zero Air generator 3,000 ml/min
ZAU 6000	5767	Ultra Zero Air generator 6,000 ml/min
ZAU 15000	5768	Ultra Zero Air generator 15,000 ml/min
ZAU 30000	5769	Ultra Zero Air generator 30,000 ml/min

Consumables/spare parts

Model	HiQ® code	Description
ZA-FILT	5770	Replacement external air filter, housing and element
ZA-XCART	5771	Replacement cartridge for external air filter
ZA-ICART	5772	Replacement cartridge for internal air filter

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