

HiQ® specialty gas generators.

The Zero Air series.

Pure air is commonly used in the chromatographic world mainly as fuel for flames in detectors such as Flame Ionization Detectors (FIDs) and Flame Photometric Detectors (FPDs). 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 “ZAGC” Zero Air generators reduce HC pollutants to less than 0.1 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. There is no need to continually buy replacement high-purity air in cylinders. 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 “ZAGC” Zero Air generator models utilize a 3-stage process to purify ambient air into analytical grade air. All main components are manufactured with high-grade stainless steel and installed systematically in cabinets for easy access and service.

Product features:

- Compact size requires minimal space
- Wall-mountable
- Built-in security lock on external housing
- Green, yellow and red indicating lights indicate power, warm-up, ready and fault notification of low/high catalyst temperature, low/high inlet pressure, and life expectancy/expiration of catalyst
- A digital thermal switch automatically shuts off the power supply to the catalyst in the event that the inlet compressed air is turned off, preventing catalyst damage due to overheating

Model	Description	HiQ® code
ZAGC 1500	Zero Air generator 1,500 ml/min	5760
ZAGC 3000	Zero Air generator 3,000 ml/min	5761
ZAGC 6000	Zero Air generator 6,000 ml/min	5762
ZAGC 15000	Zero Air generator 15,000 ml/min	5763
ZAGC 30000	Zero Air generator 30,000 ml/min	5764

Maintenance/options

ZA-FILT	Replacement ext. air filter, housing and element	5770
ZA-XCART	Replacement cartridge for external air filter	5771
ZA-ICART	Replacement cartridge for internal air filter	5772
ZA-ACC-6	Active carbon column for models 1.5–6 l/min	5987
ZA-ACC-30	Active carbon column for models 15–30 l/min	5988

Technical data

Max outlet flow	1.5; 3.0; 6.0; 15; 30 l/min	
Max outlet pressure	6.5 bar	94 psi
Inlet air pressure range	3–10 bar	45–145 psi
Product outlet purity		
Hydrocarbons	< 0.1 ppm	
Carbon monoxide	< 0.1 ppm	
Particles (>0.5 micron removed)	99.99%	
Max inlet impurities		
Hydrocarbons	100 ppm	
Carbon monoxide	100 ppm	
Connections (compr. fitting)	Out = 1/8"	In = 1/4"
Outlet air temperature (ambient)	+15° C	59° F
Max inlet temperature	40° C	104° F
Dimensions (W/D/H)	47/25/40 cm	
	18/10/16"	
Weights		
ZAGC 1500/3000	13 kg	29 lbs
ZAGC 6000	15 kg	33 lbs
ZAGC 15000/30000	22 kg	49 lbs

Certification:





HiQ® Zero Air generator.

HiQ® Zero Air generator in principal.

