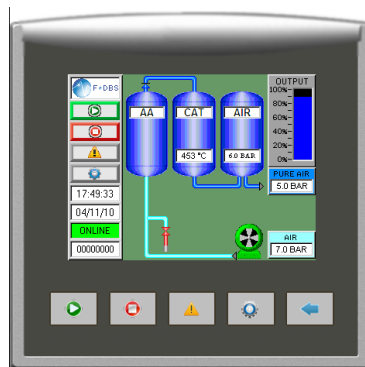


ULTRA ZERO AIR GENERATOR SERIE ZAG

F-DBS's Ultra Zero Air Generators are some of the most efficient Hydrocarbon-free air purifier systems for laboratory use. Utilising the PSA technology to remove water vapour and the heated catalyst technology to remove THC including methane to less than 0.05 ppm. This Ultra Zero Air station DO NOT requires external compressed air supply. The Generator is controlled using the latest in HMI touch screen technology to display the process in real time.



Application :

- GC-FID
- NPD
- FPD
- PFPD
- THA

Benefits and Savings

■ Better detector performance

The reduction of hydrocarbons, including methane to < 0.05 ppm decreases the background noise level and gives the baseline much better stability, considerably increasing detector sensitivity and ensuring precise analytical results.

■ Increased laboratory efficiency

A constant, uninterrupted gas supply of guaranteed purity eliminates interruptions of analyses to change cylinders and reduces the amount of instrument re-calibrations required.

■ Save money

The unit only requires connection to a suitable socket
The investment can be paid back in less than one year

■ Improved safety

Zero air produced at low pressure and ambient temperature removes the need for high pressure cylinders

■ Security of supply

DO NOT requires external compressed air supply

■ Simple installation

Gas generators can be installed in the laboratory eliminating the need for long gas lines from cylinders secured elsewhere

Standard Features

- * Various flow rate : 1, 3, 6 L/min
- * Auto start button
- * Alarm display with help menu
- * Audible alarm sounder
- * Outlet flow indicator
- * Energy saving Mode
- * Compressor over temperature alarm
- * Remote access to screen using internet or GSM

ENERGY SAVING MODE:

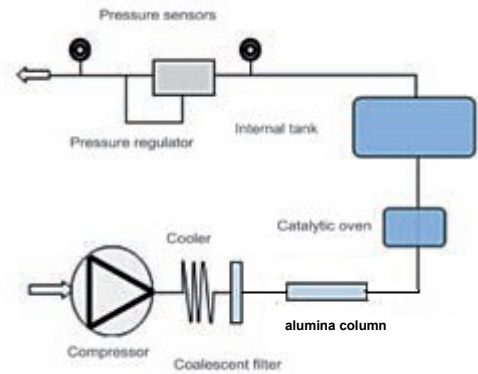
The generator has a real-time calendar and clock which can be easily updated no matter where you are in the World. By using the Auto-Run function you can select when the generator runs giving you complete control of your gas supply and saving energy.

Example: If your laboratory working hours is 8am to 6pm, set the generator to start at 5am to ensure you have high quality gas at 8am and have it switch off at 7pm, reducing running time and energy by some 55%.

The Ultra Zero Air generator uses pressure swing adsorption technology (PSA) and a palladium catalyst to produce ultra zero air gas.

The gas generator is designed to take compressed air at 8 barg from an integral oil free air compressor, which is firstly pre filtered. This filtered compressed air stream is then passed to the alumina bed currently in purification mode. Whilst passing through the bed, the particles, moisture and some hydrocarbons are removed from the compressed air, resulting in a product stream of clean, dry, high purity pure air gas.

And then Pure Air is next channelled into a stainless steel catalyst chamber where any Background hydrocarbons or carbon monoxide are oxidized. This chamber is filled with a highly efficient platinum – palladium catalyst, heated to very high temperature to insure hydrocarbon removal to less than 0.05 ppm. The compressed Ultra Zero air is stored in an internal tank. A final high grade filter is used to remove 99.99% of particulates greater than 0.1 microns in size. Then the air is regulated in pressure and ready to use. The compressor stops once the tank has reached its upper pressure level and starts again, once the tank has reached its lower pressure level.



Technical Specifications

| Model | ZAG1-1 | ZAG3-1 | ZAG6-1 | ZAG10-1 | ZAG20-1 | ZAG35-1 | ZAG50-1 |
|--|-------------|--------|--------|-------------|---------|---------|---------|
| Ultra Zero air flowrate (L/min) at 6 barg | 1.5 | 3 | 6 | 10 | 20 | 35 | 50 |
| CH ₄ , CO, NO _x out | < 0.05 ppm | | | | | | |
| CO ₂ level out | < 5 ppm | | | | | | |
| Particle filtration level | 0.1 micron | | | | | | |
| Water dewpoint | - 50°C | | | | | | |
| Integrated oil free air compressor + air dryer | yes | | | | | | |
| Sound level | < 50 dBA | | | | | | |
| Weight (Kg) | 45 | 45 | 45 | 80 | 80 | 80 | 80 |
| Dimensions (H x L x P) cm | 60x 32 x 65 | | | 73x 45 x 67 | | | |

Note : Models available without integrated oil free compressor to be connected directly on your clean and dry compressed air network

Technical Data

| | |
|----------------------------|--|
| Ambient Temp range | 5-35°C (41-95°F) |
| Air Inlet Pressure | Up to 8 barg (116 psig) |
| Outlet Pressure | Up to 6 barg (116 psig) |
| Electrical Supply | 220v a.c. / 1ph / 50Hz or 110v a.c. / 1ph / 50-60Hz |
| Inlet / Outlet connections | G 1/4" (BSP) Female |