



## FT-IR GAS PURGEGENERATOR



F-DGS's FT-IR Gas Purgegenerators are some of the smallest and most efficient CO<sub>2</sub> purifier systems for laboratory use. Utilising a CO<sub>2</sub> removal air dryer to remove CO<sub>2</sub> less than 1 ppm. This CO<sub>2</sub> free air station is controlled using the latest in HMI touch screen technology to display the process in real time.



### Benefits and Savings

#### ■ 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 for model with integrated compressor  
The investment can be paid back in less than one year

#### ■ Improved safety

CO<sub>2</sub> free air produced at low pressure and ambient temperature removes the need for high pressure cylinders

#### ■ Simple installation

Gas generators can be installed in the laboratory, on or under a bench, eliminating the need for long gas lines from cylinders secured elsewhere

### Standard Features

- \* Flow rate : 30 L/min
- \* Integrated oil free air compressor
- \* Auto start
- \* Alarm display with help menu
- \* Audible alarm sounder
- \* Outlet flow indicator
- \* Energy saving Mode
- \* Ambient temperature range : +5°C-25°C
- \* Remote access to screen using internet or GSM
- \* Fit with wheels

#### 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%.

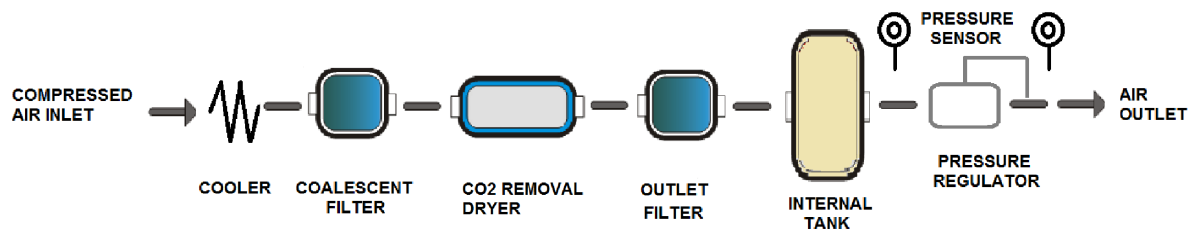
## The FT-IR Gas Purgegenerator uses a CO2 removal air dryer .

The technology used to produce a continuous flow of CO2 Free air a CO2-removal dryer which selectively eliminate CO2, moisture and other contaminants in the zero air.

The gas generator is designed to take pre-filtered compressed air at 8 barg from the existing laboratory supply or via the integrated oil-free compressor.

At this point, dust CO2 and humidity are removed from the compressed air stream, leaving a flow of clean, dry, high purity CO2 free gas.

This unit is equipped with an outlet filter to remove 99.99% of particulates greater than 0.5 microns in size, an internal tank which allows the unit to have a small capacity to avoid fluctuation due to the system and a pressure regulator to permit the compressor stops once the tank has reached its higher pressure level and starts again, once the tank has reached its lower pressure level.



## Technical Specifications

Model	FTIR-30/1	FTIR-30/0
CO2 free air flowrate (L/min) at 5 barg	30	30
Total CO2 out	< 1 ppm	
Water dewpoint	- 70°C	
Integrated oil free air compressor	YES	NO
Sound level	< 50 dBA	
Max power*	700W	300W
Weight (Kg)	60	55
Dimensions (H x L x P) cm	78x 43 x 77	

Note : Unit is mounted on wheels

\* power is the maximum when heater and compressor are both on at full power, it will not be as high as those values when the compressor is off and when the heater is not at 100%, so give maximum power rating above

## Technical Data

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