

## DESCRIPTION

The Environics® Series 7000 Zero Air Generator is a pure air generator system that is capable of continuous delivery of up to 20 standard liters per minute (SLPM), 30 pounds per square inch (PSI) of dry, contaminant-free air. The air is suitable for use as: a zero reference calibration gas, ultra-pure combustion air for flame ionization detector, and service air for pneumatically operated valves. The system is capable of delivering air free from water vapor, particulates, sulfur dioxide (SO<sub>2</sub>), Hydrogen Sulfide (H<sub>2</sub>S), Oxides of Nitrogen (NO), Nitrogen Dioxide (NO<sub>2</sub>), Ozone (O<sub>3</sub>), Carbon Monoxide (CO) and Hydrocarbons (HC).

The state-of-the-art PSA molecular sieve removes water and produces air with a dew point of less than -30°C. An adjustable drain interval negates the potential of excess water build-up. The Series 7000 is available with an optional dew point transmitter.

The Series 7000 consists of an oil-less piston pump and scrubbers to remove SO<sub>2</sub>, NO, NO<sub>2</sub>, O<sub>3</sub> and H<sub>2</sub>S. Optional scrubbers are available to remove CO and Hydrocarbons.

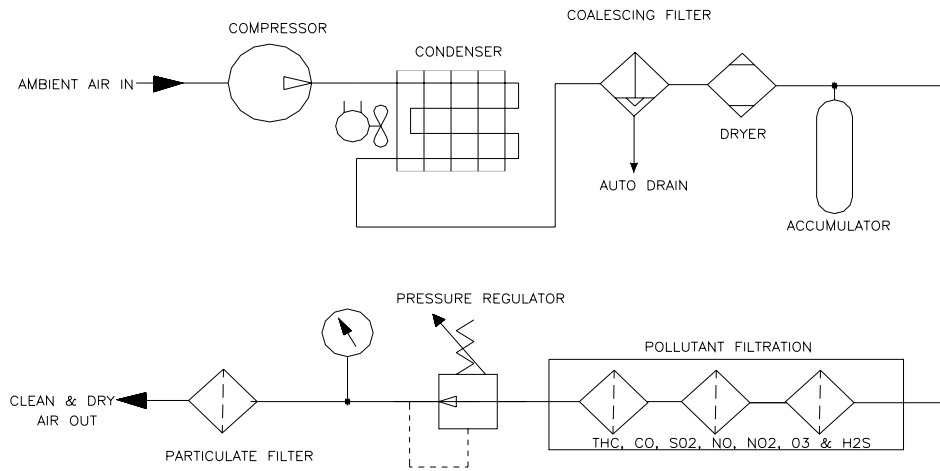
A ballast tank is standard in the system. It extends both the pump and scrubber life by cycling the pump automatically only as needed.

The Series 7000 offers automatic pneumatic control. It will automatically turn on and off based on the demand of the system that it is supporting.

Operation of the system has been simplified so that the operator can set the output pressure desired through a regulator on the front panel of the system. The output pressure gauge is located to accurately reflect the output pressure of the system.



The Zero Air Generator is designed to fit into a 19" rack with optional slides or used in a portable mode. Strict attention has been paid to the weight of all components to make this system as light as possible.



MODEL 7000 P&ID

## SPECIFICATIONS

Output: 1-20 LPM @ 30 psig (2.07Bar)

Dewpoint: <-20°C up to 10 LPM  
<-10°C up to 20 LPM

Dryer: Membrane dryer lifetime of greater than 10 years

Output concentration:

<0.5 ppb SO<sub>2</sub>  
<0.5 ppb NO  
<0.5 ppb NO<sub>2</sub>  
<0.5 ppb O<sub>3</sub>  
<0.025 ppm CO  
(requires optional scrubber)  
<0.02 ppm Hydrocarbons  
(requires optional scrubber)

Pump: Internal long-life, oil-less piston pump

HC Scrubber Temperature:  
Adjustable: 300°C to 550°C

## Dimensions:

Portable: Height : 8.75" (22.2 cm)  
Width: 19" (48.2 cm)  
Length: 23.5" (59.7 cm)

Rack: Height 8.75" (22.2 cm)  
Width: 19" (48.2 cm)  
Length: 23.5" (59.7 cm)

Weight: 45 lbs (20.4 kg)

## Electrical Requirements:

Standard: 100 VAC to 250 VAC, (50/60 Hz)  
Power consumption: <500 watts

## Operating Temperatures:

4° C - 44° C

## Performance Temperature Range

15° C - 30° C

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