

Zero Nitrogen and Nitrogen Generators for GC Carrier Gas and Makeup Gas Applications

UHPZN2 Series

Nitrogen on demand, up to 5,000 mL/min



Parker Zero Nitrogen and Nitrogen Generators convert a standard compressed air supply to nitrogen gas with purities up to 99.9995% and <0.1ppm of hydrocarbons using industry-leading filtration and pressure swing adsorption (PSA) technology.

Standard compressed air is filtered by high-efficiency coalescing filters to remove all contaminants down to 0.01 micron. The air then passes through two columns filled with proprietary carbon molecular sieve which adsorbs oxygen, carbon dioxide, moisture and hydrocarbons, which are desorbed to atmosphere during the pressure swing cycle thereby producing a supply of ultra-pure nitrogen. [For ultra-sensitive applications such as ECD, units also include the addition of a heated catalyst module to ensure hydrocarbons are removed to < 0.1ppm.]

Typical applications include GC make up gas and carrier gas, including ECD (Electron Capture Detector), DSC (Differential Scanning Calorimeter), and virtually any analytical instrument that requires a small flow of ultra-high purity zero nitrogen.



Product Features:

- Integral oil-free compressors with noise reduction technology
- Minimal maintenance required
- Economy mode: increases compressor life and ongoing operational costs
- Designed for continuous operation with minimal operator attention



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UHPZN2 Series

Principal Specifications

Description	UHPZN2-1000-W	UHPZN2-1000C-W	UHPZN2-3000-W	UHPZN2-3000C-W
Purity	99.9995%	99.9995%	99.9999%	99.9999%
Hydrocarbon Concentration	<0.1ppm			
CO Concentration	<1 ppm			
CO2 Concentration	<1 ppm			
H2O Concentration	<1 ppm			
Flow Rates	1 L/min	1 L/min	3 L/min	3 L/min
Inlet Pressure (non-compressor systems only)	130.5 - 143.6 psig (9 - 9.9 bar)			
Outlet Pressure	72 psig (5 bar)			
Integral Compressor	No	Yes	No	Yes
Inlet Connection	1/4"	N/A	1/4"	N/A
Outlet Connection	1/8"			
Ambient Temperature	60°F to 77°F (15°C to 25°C)			
Electrical Requirements	104-127 VAC - 60 Hz (207-253 VAC - 50/60 Hz available upon request)			
Power Consumption	105 Watts	473 Watts	105 Watts	473 Watts
Dimensions	53 lbs / 24 kg			
Shipping Weight	190 lbs (86 Kg)	212 lbs (96 Kg)	190 lbs (86 Kg)	212 lbs (96 Kg)

Ordering Information

Description	Model UHPZN2
1,000 mL/min Zero UHP Nitrogen Generator with Integral Compressor	UHPZN2-1000-W non compressor, UHPZN2-1000C-W
3,000 mL/min Zero UHP Nitrogen Generator with Integral Compressor	UHPZN2-3000-W non compressor, UHPZN2-3000C-W
Installation Kit	IK7694

Maintenance Items	Model Number	Change Frequency
Filter Kit - All Non Compressor Models	606272561	12 months
Filter Kit - All Compressor Models	606272563	12 months
Compressor Kit 120V	606272583	Every 8000Hrs or 24 months (whichever comes first)

