

Gas Purifiers

Helium and Nitrogen Purifiers

Carrier gas purity is essential in any application requiring extreme sensitivity. Impurities limit detector sensitivity and can even destroy capillary columns. The Valco HP2 provides "point-of-use" purification of helium or other noble gases, such as Ar, Ne, Kr, and Xe, to sub-ppm levels of reactive gaseous impurities. The NP2 is similar, purifying nitrogen to sub-ppm levels of gaseous impurities.

The purification substrate in Valco gas purifiers is a non-evaporable gettering alloy. This stable alloy is contained in a welded assembly, so the purifiers can be used safely in industrial applications with minimal precautions. The getter is activated by heating, which eliminates the oxide film on the particle surface and allows helium to diffuse into the bulk of the getter particles. The HP2 and NP2 feature a self-regulating design which eliminates the possibility of thermal runaway and maintains the getter material at the optimum temperature.



Standard helium and nitrogen purifiers

Includes universal power supply.

Description	Helium purifier		Nitrogen purifier	
	Prod No		Prod No	
110 VAC	HP2		NP2	
230 VAC	HP2-220		NP2-220	

Replacement getter assembly

Helium	I-23572HP2
Nitrogen	I-23572NP2

HELIUM PURIFIER

- CE certified
- Gases purified He, Ne, Ar, Kr, Xe, Rn
- Maximum operating pressure 1000 psig
- Impurities removed Outlet impurities less than 10ppb H₂O, H₂, O₂, N₂, NO, NH₃, CO, CO₂, and CH₄, based on 10ppm total inlet impurities. Other impurities removed include CF₄, CCl₄, SiH₄ and light hydrocarbons.
- Impurities **not** removed He, Ne, Ar, Kr, Xe, Rn

NITROGEN PURIFIER

- CE certified
- Gases purified N₂ only
- Impurities removed Outlet impurities less than 10ppb H₂O, H₂, O₂, NO, NH₃, CO, CO₂, and CH₄, based on 10ppm total inlet impurities. Other impurities removed include CF₄, CCl₄, SiH₄ and light hydrocarbons.
- Impurities **not** removed He, Ne, Ar, Kr, Xe, Rn, N₂

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