

## HP Series *Nitrogen Generator*

The South-Tek Systems *HP Series Nitrogen Generator* is a PSA (*Pressure Swing Adsorption*) designed system for high pressure nitrogen applications. The HP Series has the capability of generating Nitrogen with purities up to 99.995% and pressure up to 3500 psi.

High purity Nitrogen is generated via the PSA (*Pressure Swing Adsorption*) process. PSA is the process where compressed air is applied to a vessel filled with carbon molecular sieve (CMS) material; i.e., activated carbon. When compressed air is introduced into this CMS filled vessel, Nitrogen is not absorbed into the CMS material but all other gas molecules are absorbed, hence high purity Nitrogen is allowed to flow freely through an outlet of the vessel. The Nitrogen molecules are then collected in a surge/storage tank for process use. Periodically, the vessel is vented to atmosphere allowing the gas impurities to be released, refreshing the CMS for continued Nitrogen generation. The Nitrogen then enters a booster system to bring the pressure up to the application requirements. From there the Nitrogen is stored in a high pressure storage vessel.

### Products Specifications

Model	N-2 Output @ 99.5% Purity (SCFH)
HP-1	10
HP-25	250
HP-100	1,000
HP-200	2,000
HP-500	5,000
HP-1000	10,000
HP-1500	15,000
HP-3000	30,000



***“Make your own nitrogen with the HP series and never wait for a delivery again.”***

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