

Nitrogen for the Food Industry



General Mills



Vienna Beef



Maple Island



Harvest States



Winetech



Mobile Wine Line

Honeymead

Hillshire Farms

Mead Johnson

Nitrogen has long been used in the Food Industry as a means of prolonging shelf life and the freshness of foods. Chips, Meat, Snack Foods, Nuts, Powdered Milk, Liquid Eggs and Edible Oils are just a few of the products that benefit from Nitrogen Packaging.

Until recently, Nitrogen has only been economically available from gas companies in the form of high pressure Nitrogen cylinders, liquid Nitrogen Dewars and large outdoor Nitrogen bulk tanks.

Parker/Balston has worked closely with the Food Industry in supplying both Membrane and PSA based Nitrogen Systems. The technology offers Manufacturers and Packagers in the Food Industry a reliable, low cost alternative to a delivered Nitrogen supply.

At left is a partial list of companies in North America who have benefited from the Parker/Balston Nitrogen Generation Systems. Included are many of the most trusted and well known names in the business.



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Nitrogen for the Food Industry



Balston
Membrane
Nitrogen Generator



Balston
PSA
Nitrogen Generation
System

Features & Benefits

Eliminate all the inconveniences and costs of cylinder gas supplies and dependence on outside vendors

No need to buy and store excessive reserves to protect yourself from late deliveries, transportation interruptions, or periods of tight supplies

Offers long term cost stability by eliminating uncontrollable vendor price increases, contract negotiations, long term commitments, and tank rentals

Control your own supply by providing the volume and purity required

Utilizes the most advanced membrane technology or pressure swing adsorption technology available

Description

Balston Nitrogen Generation Systems offer a less expensive, more efficient and reliable alternative to nitrogen gas cylinders, Dewars and bulk nitrogen. Wherever there is a need for nitrogen, Balston Nitrogen Generation Systems are capable of providing it for one tenth to one half the cost of merchant nitrogen.

Eleven membrane nitrogen generation systems and ten PSA nitrogen generation systems are available, providing a wide range of flow capabilities. The Balston Nitrogen Generators utilize the most advanced hollow fiber membrane technology and pressure swing adsorption technology available. The PSA Nitrogen Generation Systems provide purities from 95% to 99.99% and flow rates up to 9600 SCFH. Please refer to the convenient Nitrogen Generator Selection charts to find the model that suits your flow and purity requirements.

Balston quality products are made in the U.S.A., and each one incorporates superior workmanship and the best quality components available. All products are backed by a field sales and service organization of over 75 people and a one year warranty. Your complete satisfaction is guaranteed.

Applications - Balston Membrane Nitrogen Generators

Storage of perishables Food processing and packaging
Purging or testing of tanks and vessels Sparging and mixing

Model	Flow Rate (SCFH)	Flow Rate (SCFH)
	@95% Purity, 100 psig	@98% Purity, 100 psig
HFX-1	40	16
HFX-3	148	70
HFX-5	279	131
HFX-7	452	209
HFX-9	752	330
HFX-11	1201	572
Main Unit	1200	570
NS-1	2401	1140
NS-2	3602	1711
NS-3	4803	2281
NS-4	6003	2851
NS-5	7204	3422

Applications - Balston PSA Nitrogen Generation Systems

Storage of perishables Food processing and packaging
Purging or testing of tanks and vessels Sparging and mixing

Model	Flow Rate (SCFH)	Flow Rate (SCFH)
	@95% Purity, 100 psig	@99.5% Purity, 100 psig
DB-5	754	250
DB-10	1508	500
DB-15	1689	750
DB-20	2050	1000
MB-1	130	60
MB-2	260	120
MB-3	390	180
DB-1200	2850	1200
DB-1600	3845	1600
DB-1900	4516	1900
DB-2500	6022	2500
DB-4000	9618	4000

Note: Higher purities to 99.99% are available. Consult factory.