

NDS

In-line Nitrogenation System



NDS

The NDS system is a modular designed nitrogenation skit based on hollow fibre membrane technology or using the Centec Vortex Venturi System.

Highly efficient contactors, so-called hollow fibre membrane modules enable the transmission of N₂ into beverages. Due to the hydrophobic material of the fibre it is only permeable for nitrogen / gas molecules. The driving force of the nitrogen diffusion into the beverage is the partial pressure difference between the gas and liquid phase. The big surface of the contactor area is the reason for bubble free nitrogenation at the contact point (membrane) of gas and liquid.

In the Vortex Venturi System N₂ is dosed and homogeneously mixed at a defined mixing point. The Vortex edge splits the Gas into very fine bubbles which will be dissolved in the holding tube.

The NDS nitrogenation system uses a highly accurate in-line N₂-analyser to determine and control the N₂-concentration of the product. An optional remote access service kit allows software updating and trouble shooting within a few hours.

Technical Data

Capacity	10-1500 hl/h
Diameter	DN25 – DN150
Temperature	2°C – 20°C
Range of measurement and dosing of N₂	0-100 ppm
Cleaning	CIP up to 85°C
Material	1.4301 / 1.4404 / AISI
Gasket / Membrane	EPDM / PP
Optional	Sterile filter for N ₂ Booster Pump Remote Access Kit Carbonation System

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