

INLINE NITROGENATION

High Concentration Unit

- Creamy head and avalanche effect
- Long-lasting foam stability
- Efficient and precise nitrogen control
- Optional Decarbonation



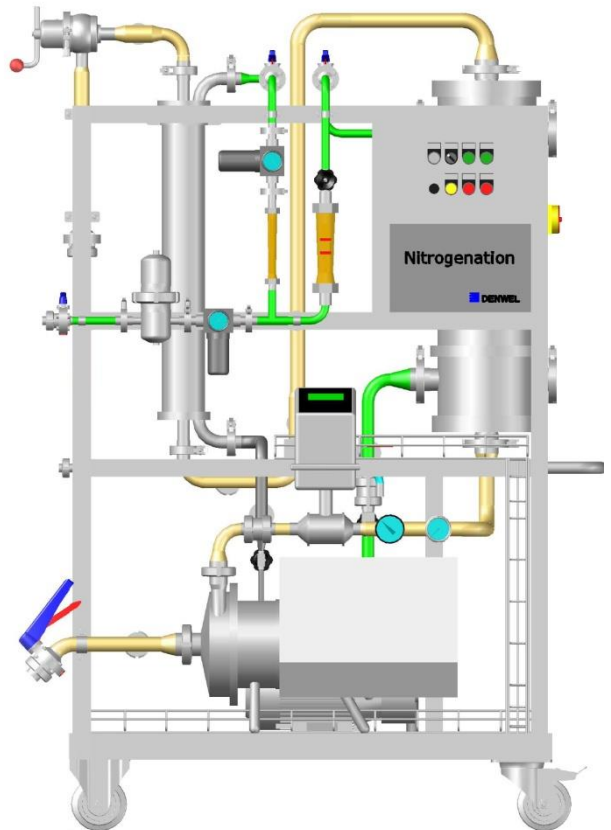
IN LINE NITROGENATION

Principle

The unit is equipped with a membrane contactor for nitrogenation. The internal fibers of the membrane contactor form a large contact area between gas and beverage ensuring instant and efficient dissolution. The applied N₂ pressure controls final N₂ concentration in beverage.

Optionally an additional membrane contactor is used to remove CO₂. This is useful for beverage with higher CO₂ concentration, or beverage where a specific CO₂/N₂ concentrations shall be achieved. The removal of CO₂ is set by the level of vacuum applied to the Decarbonation membrane contactor.

The unit is typically installed between two BBTs. The centrifugal pump transfers beverage from the first tank into the unit at constant pressure, temperature and flow. The outlet valve is used to set up required beverage pressure and flow. Final beverage is pushed to the second tank.



Technical data

CO ₂ removal:	up to 3 g/l, 1,5 V/V (P & T dependent)				
N ₂ addition:	up to 80 ppm (P & T and other gases presence dependent)				
Pressure:	Operating 1 to 6 barg, 15 to 90 psig				
Temperature:	Operating 0 to 5 °C, 32 to 40 °F				
CIP:	50 °C, 120 °F, at 7 barg, 100 psig; Max. 65 °C, 150 °F, at 2 barg, 30 psig				
Connection:	Tri-clamp; other connections upon request				
Dimensions:	from: Height 1,9 m, 75"; Width 1,4 m, 55"; Depth 0,7 m, 28"				
Weight:	from 100 kg, 220 lb				
Material:	Stainless Steel 304, EPDM, PSU, PP				
Models:					

DNS050H	DN 40	1½"	20 to 50 hl/h	9 to 22 gpm	18 to 42 bbls/h
DNS100H	DN 50	2"	40 to 100 hl/h	18 to 44 gpm	35 to 85 bbls/h
DNS200H	DN 65	2½"	100 to 200 hl/h	36 to 88 gpm	85 to 170 bbls/h
DNS300H	DN 80	3"	200 to 300 hl/h	88 to 132 gpm	170 to 256 bbls/h
DNS300H	DN 100	4"	300 to 500 hl/h	132 to 220 gpm	256 to 426 bbls/h