

Inline Nitrogenation

High Concentration Unit



Membrane
technology
for beverage
nitrogenation

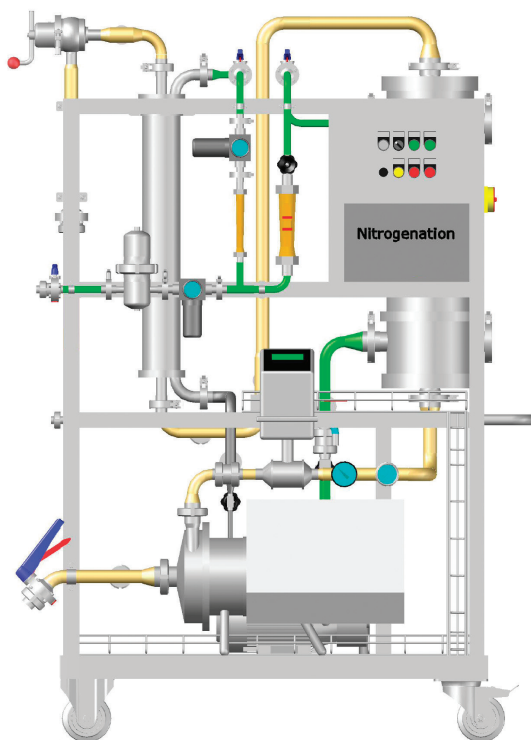
- Efficient, hygienic Injector
- Micro bubble size
- Instant N₂ dissolution
- PLC controlled

Principle

The units 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 1,9m, 75"; Width 1,4m, 55"; Depth 0,7m, 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
DNS750A	DN 125	5"	300 to 750 hl/h	132 to 330 gpm	256 to 639 bbls/h
DNSA00A	DN 150	6"	400 to 1000 hl/h	176 to 440 gpm	341 to 852 bbls/h

Bucher Denwel, spol. s r.o.
 K Hajum 2
 155 00 Praha
 Czech Republic
 +420 270 007 400
 sales@bucherdenwel.com
 bucherdenwel.com

Technical support
 +420 737 622 100
 service@bucherdenwel.com

Technical changes reserved.

Products

We develop and produce a wide range of specialized equipment and provide engineering solutions dedicated to help brewers to optimize their processes.

Combining experience and innovation we supply brewing equipment such as Filtration systems, Yeast plants, Water Deaeration, Blending, Carbonation, Dosing and Hard Seltzer systems, Dealcoholisation, CIP, Cold sterilisation, Flash Pasteurization and Beer tanks.

Services

We have a global presence. Our sales and service network is always available for you to provide consultancy, technical support and after sales service.