

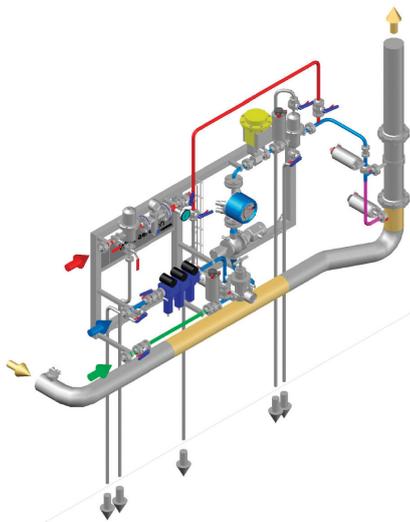
Inline Aeration/Oxygenation

Automatic Unit

For instant wort aeration/oxygenation

- Micro bubble size
- Instant saturation
- O₂ analyzer controlled





Application

Brewing yeast needs oxygen to multiply. While insufficient aeration results in reduced yeast reproduction, over-dosing may cause the formation of undesired substances and wort foaming. Therefore, controlled wort aeration is required for a consistent fermentation rate and constant product quality.

Designed for fast and accurate injection and dissolution of air or oxygen, Bucher Denwel provides a fully automated solution for continuous wort aeration.

Principle

Oxygen or Air is injected into the wort through Bucher Denwel Injector, which splits the gas into micro bubbles. Most efficient and instant saturation of the gas is achieved with only a minimal pressure drop, no gas loss and a fully hygienic design. No static mixer or sinter candles needed. The injected gas can be cleaned and sterilized by micro and sub-micro sterile filters.

An inline O₂ analyzer continuously monitors the O₂ concentration. The output signal is processed by the PLC to control the O₂ dosing. A high precision control valve accurately adjusts the injection, avoiding any over- or under- aeration/oxygenation.

Technical data

Air addition:	up to 15 ppm (P & T dependent)
O ₂ addition:	up to 25 ppm (P & T dependent)
Pressure:	operating 2 to 5 barg, 30 to 72 psig
Temperature:	operating 0 to 15 °C, 32 to 60 °F
CIP:	2 to 5 barg, 30 to 72 psig; max. 90 °C, 200 °F; Steam 140 °C, 286 °F
Connection:	Tri-clamp; other connections upon request
Dimensions:	from Height 1,9m, 6,2'; Width 2,0m, 6,5'; Depth 0,6m, 2'
Weight:	from 100 kg, 220 lb
Material:	Stainless Steel 304, EPDM, PSU, PP
Models:	Aeration DASxxxA; Oxygenation DOSxxxA; Aeration and Oxygenation DOAxxxA

D__050A	DN 40	1½"	20 to 50 hl/h	9 to 22 gpm	18 to 42 bbls/h
D__075A	DN 40	1½"	30 to 75 hl/h	14 to 33 gpm	26 to 63 bbls/h
D__100A	DN 50	2"	40 to 100 hl/h	18 to 44 gpm	35 to 85 bbls/h
D__150A	DN 65	2½"	60 to 150 hl/h	27 to 66 gpm	52 to 127 bbls/h
D__200A	DN 65	2½"	80 to 200 hl/h	36 to 88 gpm	69 to 170 bbls/h
D__300A	DN 80	3"	120 to 300 hl/h	53 to 132 gpm	103 to 225 bbls/h
D__500A	DN 100	4"	200 to 500 hl/h	88 to 220 gpm	171 to 426 bbls/h
D__750A	DN 125	5"	300 to 750 hl/h	132 to 330 gpm	256 to 639 bbls/h
D__A00A	DN 150	6"	400 to 1000 hl/h	176 to 440 gpm	341 to 852 bbls/h

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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 build safe and reliable Cold Blocks, supply brewing equipment such as Filtration, Beer recovery systems, Yeast plants, Water Deaeration, Blending, Carbonation, Dosing, Hard Seltzer units, Flash Pasteurization and CIP.

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.