

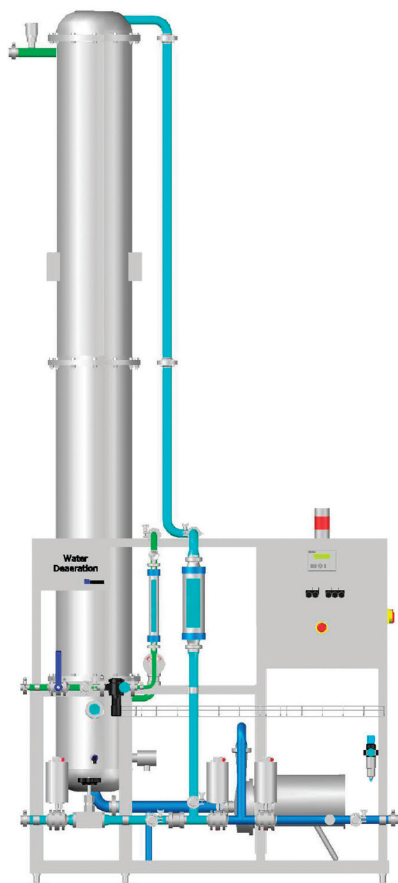
Water Deaeration

Column Cold Unit



Stripping technology
for deaerated water
production

- Final oxygen below 10 ppb
- Carbonation of deaerated water
- No vacuum required
- Low CO₂/N₂ consumption



Principle

The deaeration column is filled with high efficient structured packing. Its large internal surface ensures a maximal contact area between gas and liquid. Water is homogeneously distributed on the top and CO₂/N₂ is injected at the bottom of the column. While the water flows downwards through the packing, the CO₂/N₂ rises in counter current removing the oxygen to concentrations as low as 10 ppb. A drive controlled pump maintains the level in the column and forwards the deaerated water into a buffer tank or point of use.

The unit has an uncompromising sanitary design and is fully CIP cleanable.

Technical data

Final Oxygen:	less than 10 ppb (0,01 ppm)
Pressure:	operating 2 to 4 barg, 30 to 60 psig
Temperature:	operating 8 to 30 °C, 40 to 90 °F
CIP:	2 to 4 barg, 30 to 60 psig; max. 90 °C, 200 °F
CO ₂ /N ₂ purity:	99,995 %
Stripping gas flow:	app. 0,5 g/l (final O ₂ , water temperature and column height dependent)
Carbonation:	app. 2 g/l (water temperature dependent)
Connection:	Tri-clamp; other connections upon request
Dimensions:	from Height 5,5 m, 16,4'; Width 1,0 m, 3,3'; Depth 0,5 m, 1,6'
Weight:	from 200 kg, 440 lb
Material:	Stainless Steel 304, EPDM, PSU, PP

DWD010C	DN 25	1"	4 to 10 hl/h	2 to 4 gpm	4 to 8 bbls/h
DWD015C	DN 25	1"	6 to 15 hl/h	3 to 6 gpm	6 to 12 bbls/h
DWD025C	DN 25	1"	10 to 25 hl/h	5 to 11 gpm	9 to 21 bbls/h
DWD050C	DN 40	1½"	20 to 50 hl/h	9 to 22 gpm	18 to 42 bbls/h
DWD075C	DN 40	1½"	30 to 75 hl/h	14 to 33 gpm	26 to 63 bbls/h
DWD100C	DN 50	2"	40 to 100 hl/h	18 to 44 gpm	35 to 85 bbls/h
DWD150C	DN 50	2"	60 to 150 hl/h	27 to 66 gpm	52 to 127 bbls/h
DWD200C	DN 65	2½"	80 to 200 hl/h	36 to 88 gpm	69 to 170 bbls/h
DWD250C	DN 65	2½"	100 to 250 hl/h	44 to 110 gpm	86 to 213 bbls/h
DWD400C	DN 80	3"	160 to 400 hl/h	70 to 176 gpm	136 to 340 bbls/h
DWD600C	DN 100	4"	240 to 600 hl/h	105 to 264 gpm	204 to 511 bbls/h
DWDA00C	DN 125	5"	400 to 1000 hl/h	176 to 440 gpm	340 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.