

WATER DEAERATION

Column Cold Unit

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

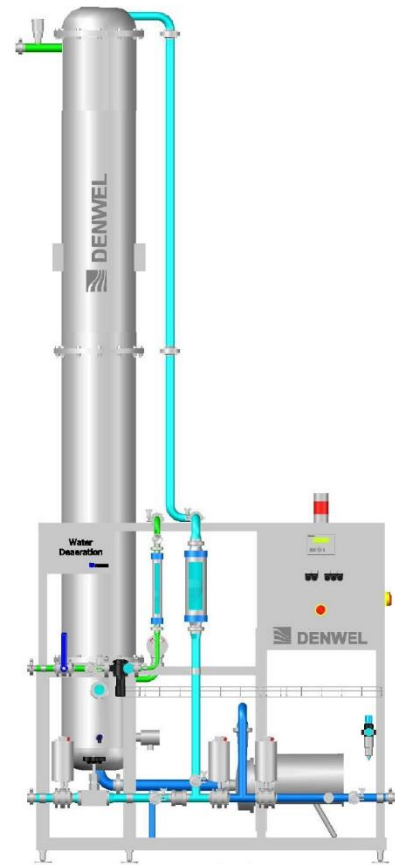


W A T E R D E A E R A T I O N

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