

# CO<sub>2</sub> Purification Units



## Reduction of oxygen and inert gases

CO<sub>2</sub> is an important ingredient to beverages and the demands to the purity are continuously increasing in the modern beverage industry. Adding a CO<sub>2</sub> Purification Unit to your recovery system secures an efficient stripping of oxygen and inert gases.

The CO<sub>2</sub> liquefaction process taking place in the traditional recovery plant involves the

separation of non-condensable gases where oxygen, being the most critical component, is reduced to below 30 ppm. As oxygen causes deteriorative reactions in beer and affects the shelf-life of packaged beer the modern brew industry requires oxygen content less than 5 ppm.

CO<sub>2</sub> Purification Unit can be supplied as an integrated part of the recovery plant or as a separate unit to be added on any existing installation. The Purification unit is available in two standards according to the actual raw gas purity and the requested purity of the final CO<sub>2</sub> product as outlined in the table below.

Product	Description	CO <sub>2</sub> purity inlet to recovery plant	CO <sub>2</sub> purity in liquid phase	O <sub>2</sub> content in liquid phase
Condenser	Low oxygen stripping	≥ 99,7%	≥ 99,98%	≤ 30 ppm
PUR-D	Medium oxygen stripping	≥ 95%	≥ 99,998%	≤ 5 ppm
PUR-A	High oxygen stripping	≥ 95%	≥ 99,9985%	≤ 2 ppm

Alternative designs are available for special applications