

Dealcoholisation of Wine & Other Alcoholic Beverages - using Flavourtech's Spinning Cone Column and Resin Adsorption Column Technologies

Low alcohol (<0.5% ABV) and alcohol free (<0.05% ABV) wine, beer, cider and spirits continue to grow in popularity. Demand for these products seems mainly driven by consumer's search for a healthier lifestyle. However, in recent years, governments have made use of incentives (most commonly tax related) and deterrents (such as tougher drink driving laws) in an effort to reduce alcohol consumption across the globe.

As higher quality non-alcoholic beverages become more readily available, the market is becoming increasingly competitive, and this is increasing pressure on producers to produce high quality products.

Flavourtech's **Spinning Cone Column (SCC)** and **Resin Adsorption Column (RAC)** technologies are the tools that enables these high-quality targets to be achieved.

Dealcoholisation

To satisfy market trends, alcohol reduction is fast becoming an essential part of the day-to-day processes in wineries, breweries and distilleries around the globe. There are a number of techniques available for removing alcohol from wine, beer, cider and spirits. These techniques include membrane techniques, partial vacuum evaporation, and (vacuum steam) distillation with the latter being widely considered the gentler and more efficient process.

The Spinning Cone Column, discussed herein, uses vacuum steam distillation at low temperatures and short residence times thus avoiding thermal degradation of flavour and colour.

The Spinning Cone Column

The SCC was developed and commercialised in the 1980's by the Australian company Flavourtech. With its unique ability to gently and efficiently recover volatile components from all kinds of slurries, purees, or clear liquids, it was soon identified as an ideal method for reducing alcohol in wine and beer.

The key attribute of the SCC is its ability to maintain product quality, and with ***operating temperatures*** of between ***25-40°C***, ***residence times of less than 30 seconds***, and the ability to ***preserve delicate aromas***, the SCC is considered the best in class.

Dealcoholisation with SCC is typically broken down into the following steps:

Step 1 - The product's original aroma (approximately 1% of the initial product volume) is stripped from the product at around 25-30° C (in only 30 seconds), condensed as a clear, alcoholic, liquid, and stored for re-addition at a later stage.

Step 2 - The aroma-stripped product is then re-processed at around 35-40°C (again in less than 30 seconds) to remove the bulk of the alcohol. Alcohol levels in the product exiting the SCC will typically be between 0.05 and 0.1% ABV and can be adjusted depending on requirements. Additionally, the alcohol removed is in the form of a high-quality spirit that can be sold, used in other applications or concentrated through another of Flavourtech's technologies.

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Roman Wölfel



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The SAGE Encyclopedia of Alcohol Scott C. Martin, 2014-12-16 Alcohol consumption goes to the very roots of nearly all human societies Different countries and regions have become associated with different sorts of alcohol for instance the beer culture of Germany the wine culture of France Japan and saki Russia and vodka the Caribbean and rum or the moonshine culture of Appalachia Wine is used in religious rituals and toasts are used to seal business deals or to celebrate marriages and state dinners However our relation with alcohol is one of love hate We also regulate it and tax it we pass laws about when and where it s appropriate we crack down severely on drunk driving and the United States and other countries tried the failed Noble Experiment of Prohibition While there are many encyclopedias on alcohol nearly all approach it as a substance of abuse taking a clinical medical perspective alcohol alcoholism and treatment The SAGE Encyclopedia of Alcohol examines the history of alcohol worldwide and goes beyond the historical lens to examine alcohol as a cultural and social phenomenon as well both for good and for ill from the earliest days of humankind **A Concise Encyclopedia of**

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Spirits Stuart Walton, Brian Glover, 1844779297 (hbk.), 2006 [The Complete Book of Spirits](#) Anthony Dias Blue, 2010-05-18

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