

# Alfa Laval non-alcohol beer technology: A new quality beer based product for a big range of customers

Juan Jurado Global Technology Manager Alfa Laval Brewery Systems juan.jurado@alfalaval.com











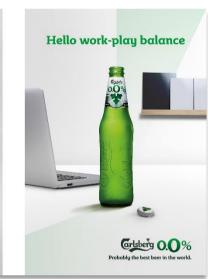


## Great moments for 0.0 beer!!!















www.alfalaval.com

# Non-alcohol beer: a new quality beer based product for a big range of customers



Market is ready and demands for 0.0 beer



Successful taste from unique de-alc technology

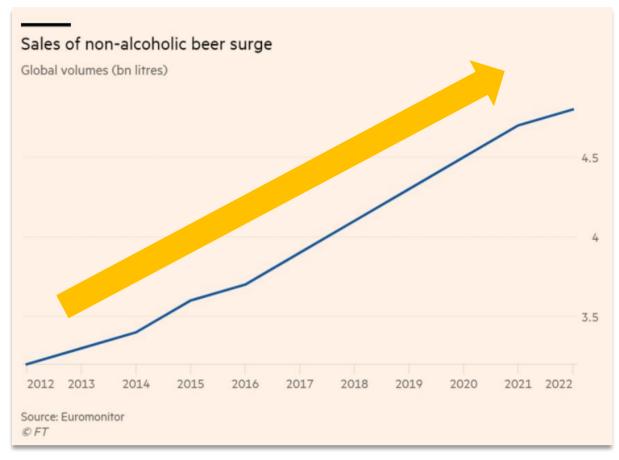


Global brewery know-how and support

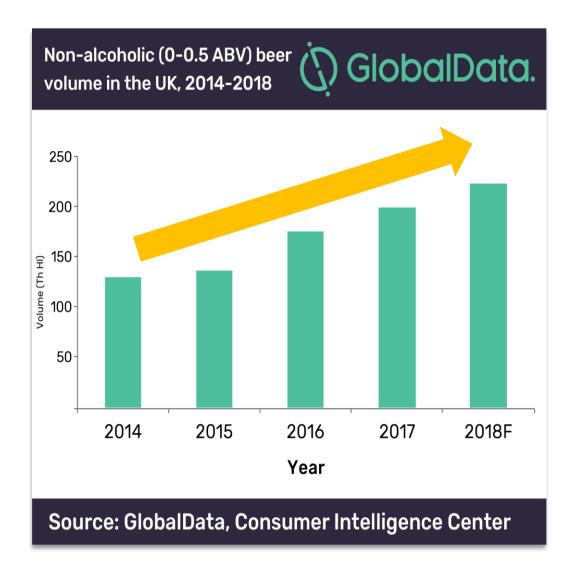
# 1. The market is ready and demands for 0.0 beer products

- A <u>great alternative</u> for non beer/non alcohol consumers; a growing market niche for breweries.
- A <u>beer-based drink option</u> for present beer consumers with clear benefits (responsible drinking, healthier, lower calorie, good taste).
- 0.0 beer a <u>clear driver for profitable growth</u> in many countries, as seen by endorsement from top brewery groups with high marketing investment.

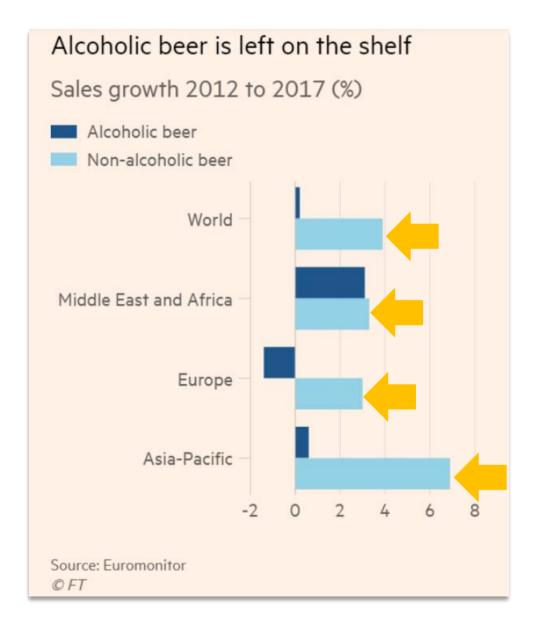
# Accelerated growth for NA beer globally

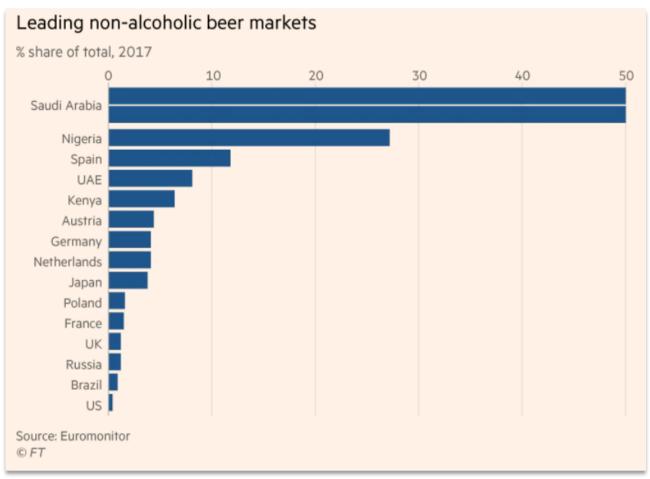


According to Euromonitor: Sales volumes of low and non-alcoholic beer have risen nearly 18 per cent in the past five years in western Europe, and are forecast to climb another 12 per cent by the end of 2022.



## NA beer's rising quicker than its predecessor







## What's so good about 0.0 beers?

- Natural ingredients product-barley-malt-wheat
- Less than half the calories compared to standard beers
- Full and rewarding social life
- Work and 0.0 beer integration
- Less short/long term cost impact in state health system



# Examples of successful de-alc 0.0 beers









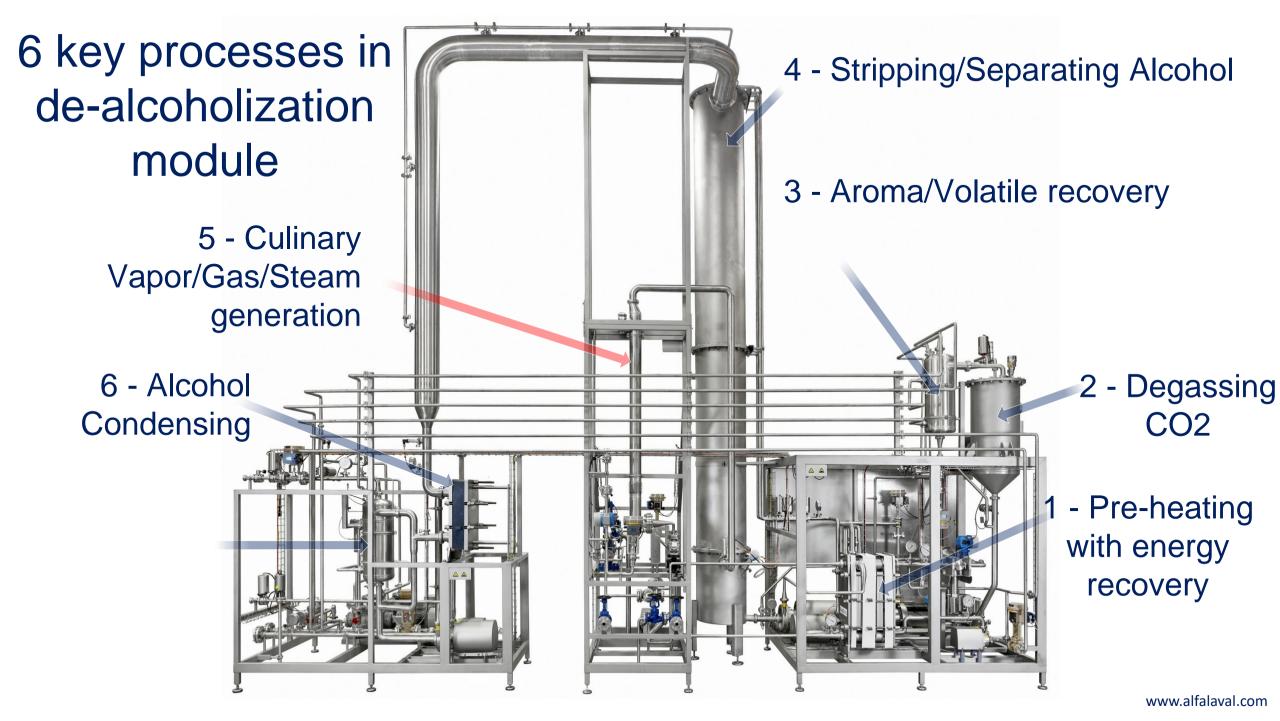
# 2. New unique de-alc technology brings successful taste in 0.0 beer products

 Continuous single pass process with low residence time and low temperature in vacuum conditions.

Stripping in column: Meaning no distillation and no dilution.

 Possibility to recover and dose aroma before or after the alcohol removal.





# Innovative, efficient single-pass alcohol removal for full-flavour end product

#### **Gentle vacuum-based stripping**

- From 5 to 100 hl/h capacity in De-alc
   ABV reduction from 13 % to <0.05%</li>
- Optimized for beer
   De-alcoholized beer profile close to reference beer

#### **Effective performance**

- Single pass, low thermal impact
   Operating temperature < 45°C</li>
- Full system cleanability
   CIP/SIP of internal surfaces

#### **Efficient operation**

- Low steady-state running costs
   < €4/hl in utilities</li>
- Short start-up time
   Start-up to standby in less than 10 minutes



## Alfa Laval a world leader in stripping columns-ALDOX



#### **Efficient stripping technology**

- Proprietary know-how
- Stainless steel structured modular packing
- Stable performance

#### **Brewery industry-leading reliability**

- Installed base >1000 stripping systems
- Lowest Cost of Ownership

#### Big capacity range and flexibility

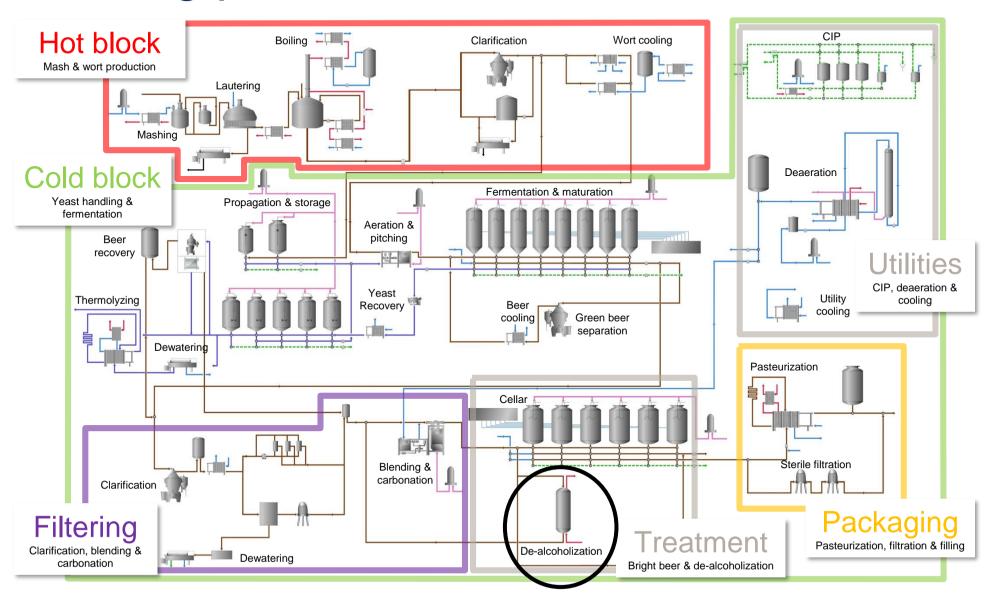
- Capacities from 5 to 1600 hl/h DAW stripping
- Multiple applications in food & beverage market

3. Global brewery know-how, technical support and extended process solutions to create 0.0 beer products

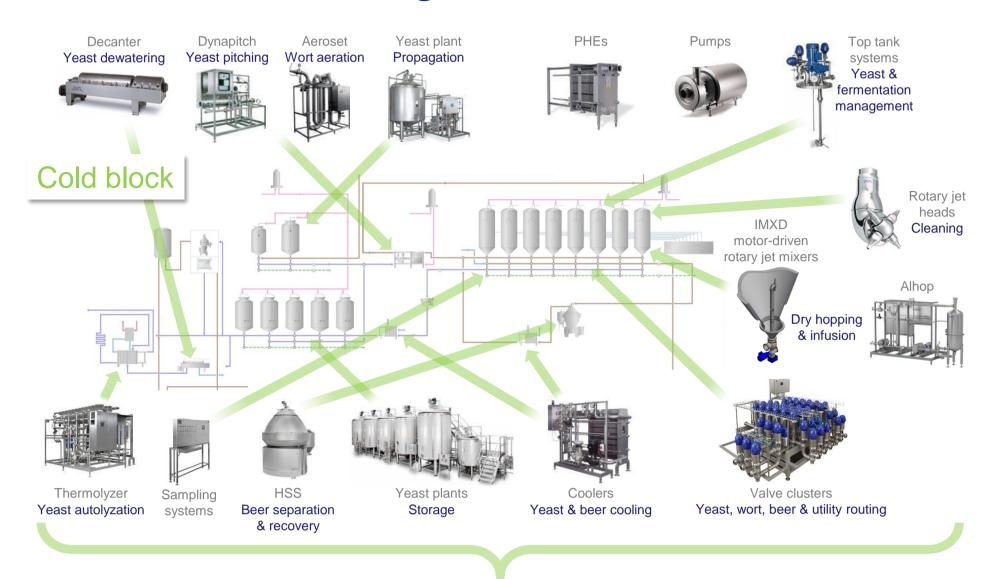
- 0.0 process starts in brewhouse and how beer is fermented.
- Beer pre-treatment and posttreatment support is required.
- De-alcoholization is a complete solution, not only a component.



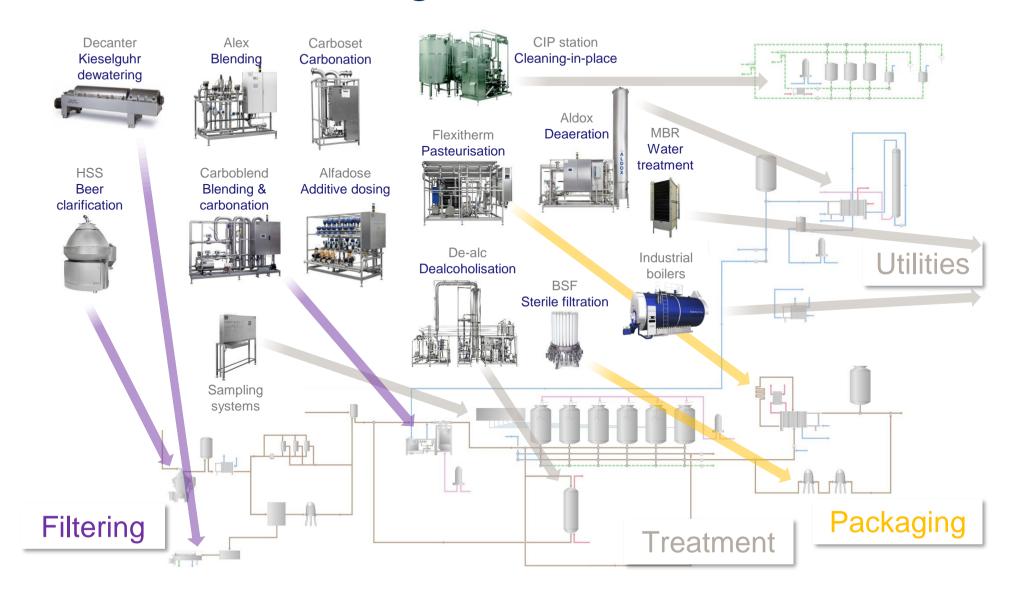
## The brewing process...



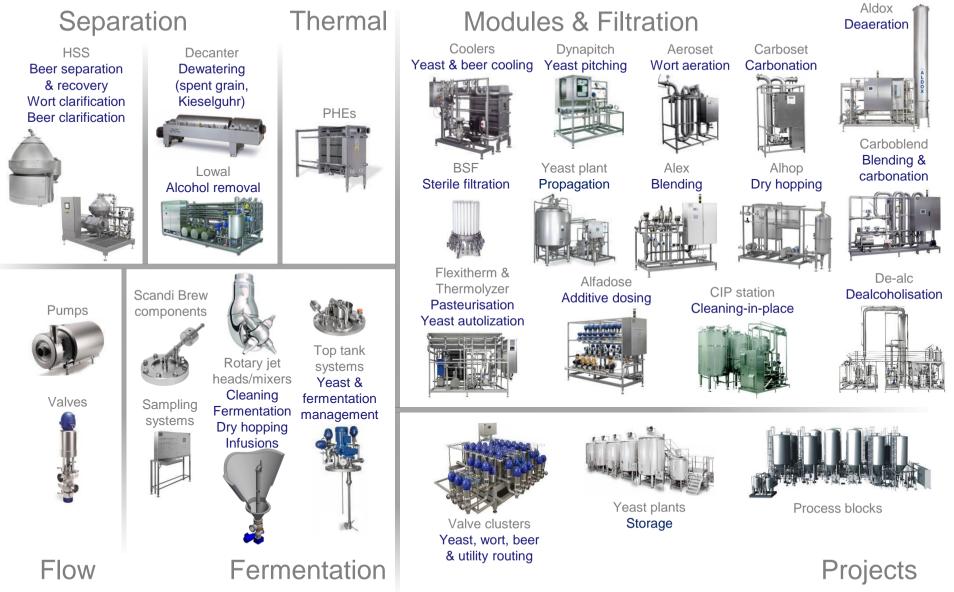
# The Alfa Laval offering ...



## The Alfa Laval offering...



# ... and competence knowhow

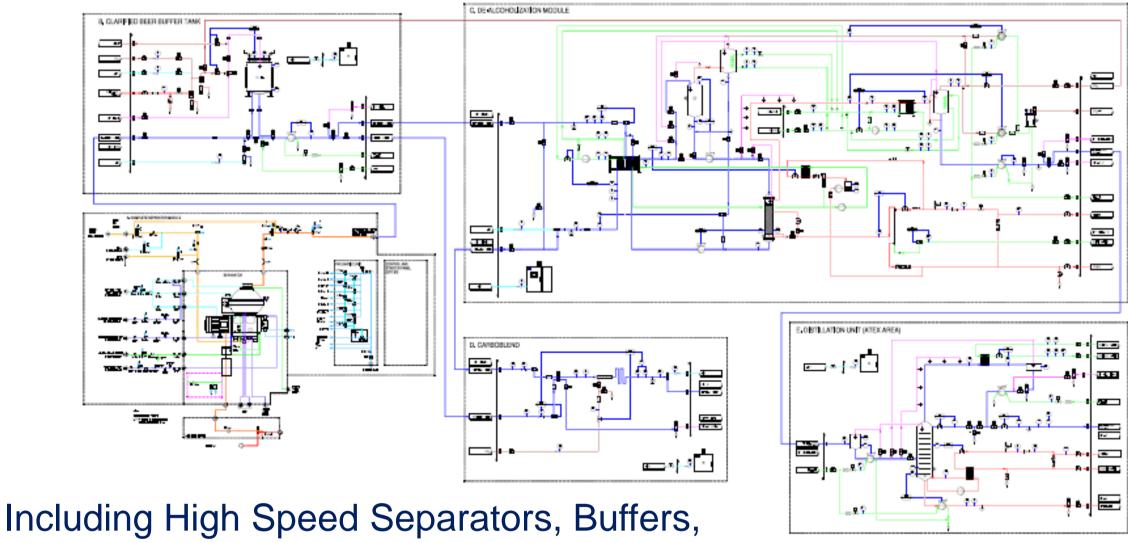


# Alfa Laval De-alcoholization Module

for non-alcohol & low alcohol beer

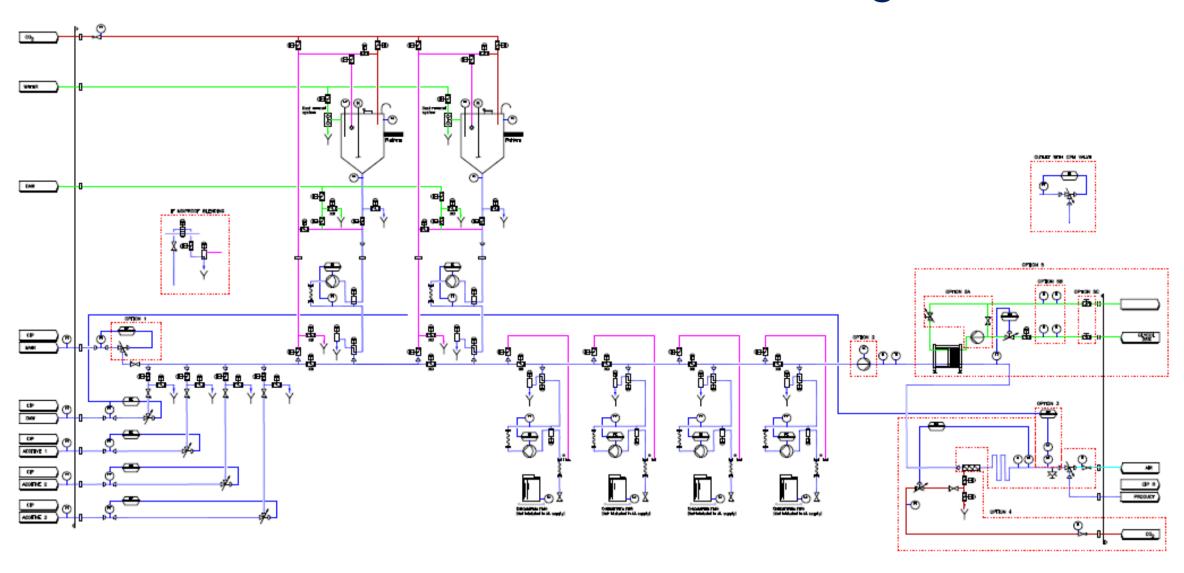


# NAB/LAB integration projects



Carboblend, Coolers...

# AlfaDose after De-alc for in-line dosing



# Non-alcohol beer: a new quality beer based product for a big range of customers



Market is ready and demands for 0.0 beer

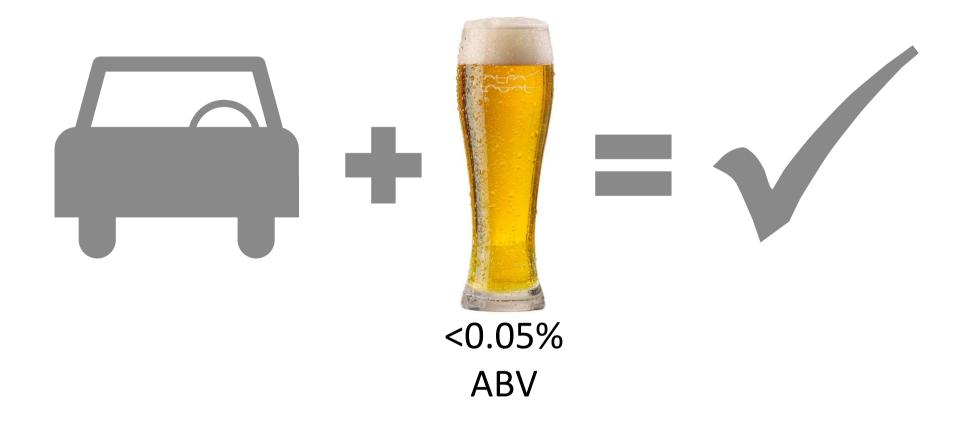


Successful taste from unique de-alc technology



Global brewery know-how and support

## One last benefit...



## Alfa Laval Brewery is on social media!



Alfa Laval - Beer Production 168 followers

alfalaval.com

What can you benefit as a small craft brewer if you add a centrifuge to y production process? Our experts find at least five reasons for that. Read and find out: http://fal.cn/ACOT



