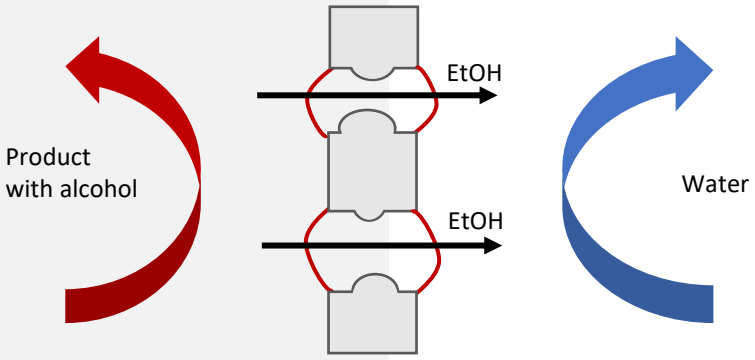
# ALCOHOL REMOVAL SYSTEM

bared

## Process

The use of membrane technologies is the easiest and cheapest method to remove alcohol from a liquid. Nowadays evaporative techniques are less used due to the complexity of the system and organoleptic degradation of the final product.
The dealcoholization system has a membrane which divides the alcoholic liquid from an extractant (generally water). A joint-action of diffusion and natural osmosis makes ethanol molecules migrate to the extracting fluid.
The higher the alcoholic gradient between liquids, the faster is the process.




## Applications

The system is suitable for:

- Alcohol removal from wine, beer or other hydroalcoholic solutions
- Restarting a stuck fermentation
- Balancing of alcohol content

## System highlights

| | |
|---|---|
| **MEMBRANE** | The used membrane is chemically inert and no electric-charged: the alcohol removal process safeguards initial color, quality and colloidal structure. |
| **TEMPERATURE-PRESSURE** | The process operates at room temperature without heating and very low pressure. |

# Models

| | D1 |
|---|---|
| Capacity | 500 L/h with 1% alcohol removal |
| Power | 0.9 kW |
| Dimensions | 1200x800x1500 mm |
| Weight | 170 Kg |

| | D2 |
|---|---|
| Capacity | 1000 L/h with 1% alcohol removal |
| Power | 0.9 kW |
| Dimensions | 1200x800x1500 mm |
| Weight | 200 Kg |

| | D10 |
|---|---|
| Capacity | 6000 L/h with 1% alcohol removal |
| Power | 0,9 kW |
| Dimensions | 1400x1100x1500 mm |
| Weight | 300 Kg |

# GAS ADJUSTMENT SYSTEM

bared

## Process

The process takes place by creating a partial pressure difference on a molecular sieve through which the low molecular weight gas migrates.
It is an innovative non-invasive technique for a continuous monitoring and regulation of dissolved gas inside a liquid.

## Application

The sytem is suitable for:

- Increase or decrease the carbon dioxide content
- Remove oxygen to prevent oxidation
- Reduce unpleased flavours (e.g. hydrogen sulphide)

## Features

**MEMBRANE** The installed polymer allows the passage of gas with low molecular weights: the process preserves the quality and all the organoleptic components of the product.

**GAS-METER** It is possible to install a dissolved gas analyzer with manual sampling or automatic inline control.

## Models

| | R1 | R2 | R4 |
|---|---|---|---|
| Capacity | 1000-4000 L/h | 3000-6000 L/h | 4000-8000 L/h |
| Power | 0.9 kW | 1.1 kW | 1.2 kW |
| Dimensions | 1000x600x800 mm | 1000x600x800 mm | 1300x800x1400 mm |
| Weight | 140 kg | 150 Kg | 190 Kg |

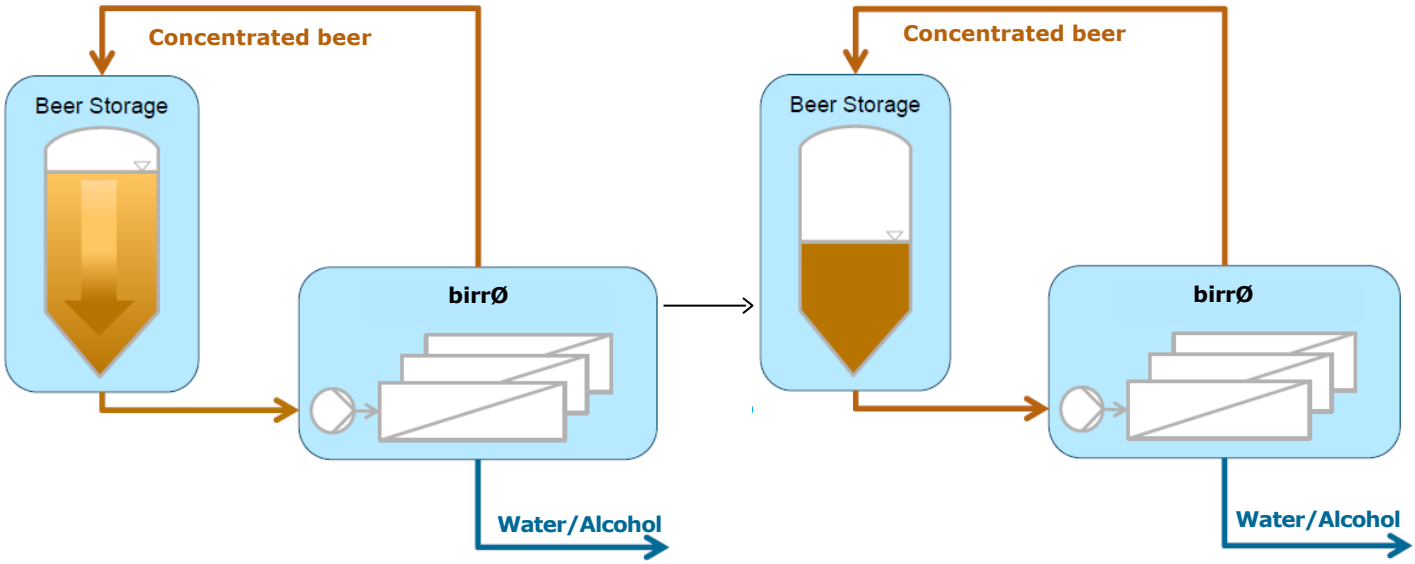
# BEER DEALCOHOLIZATION

bared

# HOW DOES IT WORK

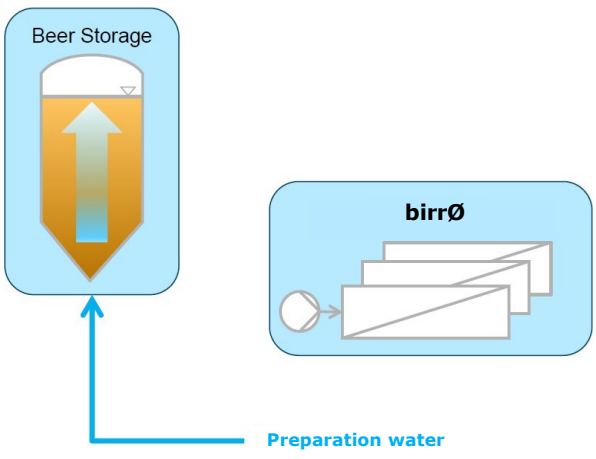
## 1 CONCENTRATION

Concentrate your beer and reduce the initial volume




## 2 BLENDING

The starting volume is restored with the brewing water



# Models

| | B 4.V2 |
|---|---|
| Capacity | 500L from 4,0° ABV to 0,5° ABV in 5 hours |
| Power | 4.0 kW |
| Dimensions | 2300x800x1500 mm |
| Weight | 360 Kg |

**mod. B 8.V2**

| | B 8.V2 |
|---|---|
| Capacity | 1000L from 4,0° ABV to 0,5° ABV in 5 hours |
| Power | 4.0 kW |
| Dimensions | 2300x1000x1650 mm |
| Weight | 460 Kg |

| | B 16.V2 |
|---|---|
| Capacity | 2000L from 4,0° ABV to 0,5° ABV in 5 hours |
| Power | 7.5 kW |
| Dimensions | 2300x1000x1700 mm |
| Weight | 670 Kg |