

# ALCOHOL REMOVAL SYSTEM

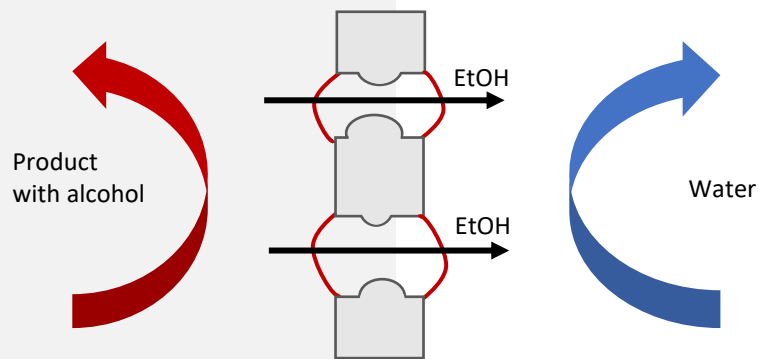


## Process

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

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

# Models

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



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

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

# GAS ADJUSTMENT SYSTEM



## 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 system is suitable for:

- Increase or decrease the carbon dioxide content
- Remove oxygen to prevent oxidation
- Reduce unpleasant 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