

Winery Plants

Winery San Miguel Sociedad Cooperativa, Ausejo - La Rioja, Spain 2 ES 100 modules

The client, Bodega San Miguel, was looking for a compact solution due to space limitation problems, and safe enough for the treatment of their wastewaters. The site is located by Ausejo's main road, residences being less than 20 m away from it, thus minimisation of visual and odour impact were important issues. Reduced civil engineering requirement (just a concrete plinth for the installation of 2 steel tanks) was also an important aspect on the decision of the client.

Compact MBR



Fig 1.- General view of the plant



Fig 2.- Detail of the membrane reactor.

- Compact and small wastewater plant that fitted perfectly on the short space given by the property.
- MBR technology to obtain better treated effluent quality than with conventional systems
- Effluent quality meets the standards for reuse on crop irrigation.

Plant data:

Reactor Dimensions	9m L x 3m W x 3,5m
Nº. of tanks	2
Nº of membrane modules	2 modules
Nº. Cartridges/modules	100 units.
Total membrane surface area	160 m ²

Design parameters:

Average flow design	43 m ³ /day
COD inlet / COD outlet	10.000 / < 160
BOD inlet / BOD outlet	5.000 / < 40
SS influent / SS outlet	2.000 / < 5