



CASE STUDY



Winery

PAGO DE CARRAOVEJAS

VARIETIES

It currently holds 160 hectares of production area with three grape varieties: **Tempranillo, Cabernet Sauvignon and Merlot.**

KEY

ELEMENTS

One of the key elements is **controlling the temperature** in the tanks in order to achieve a wine of the highest quality.

A prime location

The Pago de Carraovejas winery and vineyard is located in Peñafiel (Valladolid) at the heart of the Spanish wine region of Ribera del Duero.

It currently holds 160 hectares of production area with three grape varieties – Tempranillo, Cabernet Sauvignon and Merlot – and uses different cultivation systems adapted to each small plot.

The complete facilities come to more than 26,000 m², with views over the Botijas valley and Peñafiel Castle.

Respectful processing

The winery is designed with the aim of fully respecting the natural gravity-fed fermentation process and the original characteristics of the raw materials. It has implemented an innovative fermentation system equipped with the latest technology to achieve more efficient maceration.

REFRIGERATION UNIT 30XB CARRIER

AquaForce® 30XB can function at outdoor temperatures of -20 °C to 55 °C and is the perfect solution for a wide range of applications, including industrial projects.

- Refrigerant: R-134a
- Compressor: Screw compressor with fixed speed
- Nominal cooling capacity: 270–1700 kW

Importance of temperature control



One of the key elements is **controlling the temperature** in the tanks in order to achieve a wine of the highest quality.

The chilled water production is realised with air-cooled refrigeration units equipped with high-efficiency screw compressors, which allow for very precise adjustment to the required cooling capacity. In addition, they offer a broad operating range in outdoor temperatures from -20 °C up to 55 °C and with chilled water production up to -15 °C.

The units have inspection schedules and personalised protocols to ensure optimum operation.

Thanks to these services, it was possible to **minimise operating costs** and **maximise the service life** of the installation.



30XB CARRIER refrigeration unit

AquaForce® 30XB is available in three efficiency levels to perfectly adapt to each customer's application and meets the new requirements of the European Ecodesign Directive.

30XB can function at outdoor temperatures of -20 °C to 55 °C. It is the perfect solution for a wide range of applications, from office buildings and high-end hotels to sanitary installations, data centres and industrial projects.

- Highly economical operation
- Low noise levels
- Easy installation
- Environmentally responsible
- Exceptional reliability



Benefits of Carrier solutions for wineries



Temperature control for wine of the highest quality.

Maintaining conditions is key for your business, which is why our units are made with state-of-the-art components that adapt to your unique requirements.



Maximum energy efficiency, minimum operating costs.

Our units are made with the aim of achieving maximum seasonal energy efficiency, keeping a handle on energy costs and reducing CO₂ emissions.



Reliability and expertise to safeguard your production.

We have a comprehensive quality system in place which ensures that all Carrier units, which are fully tested before leaving the factory, help to maintain the necessary conditions 24 hours a day during all production periods.



Long service life thanks to appropriate maintenance.

Being able to rely on a maintenance plan that adapts to the use of the installation and its constraints is a key factor in maximising service life.

We employ more than 160 technicians across Spain to attend to your installation and ensure rapid response times.



Connectivity to anticipate any eventuality.

We can implement a connectivity solution that keeps you informed of the system status in real time.

In case of an incident, you will be able to respond immediately to protect your production while technicians repair the fault.



Interim solutions that grow with your business.

We can offer modular solutions to increase your refrigeration capacity rapidly and economically as your production grows, enabling you to control and manage capital investments and operating costs.

We can also provide cover for breakdowns or peaks in demand.

