

Reference List

WINE INDUSTRY

THE SOLUTIONS DEVELOPED BY GEOCLIMA



Air conditioning equipment plays a fundamental role in the preservation of wine in order to create ideal conditions when combining several important factors that contribute to a good wine aging:

- accurate temperature support
- required ventilation air humidity
- thermal insulation

With specially designed installations,

Geoclima can offer an excellent solution for this application: large and small sizes, high efficiency and reliability, low consumption, minimum vibrations, lower noise levels and reduced energy consumption.

UNITS

| Place | Model | Total Cooling Capacity (kW) | Description | N. |
|---------------------------------|--------------------------|-----------------------------|--|----|
| Vinimat, France | VHA 216/66/HP | 106.8 | Air cooled chiller with reciprocating compressors | 1 |
| Vinimat, France | VHA V 211 | 42 | Air cooled chiller with reciprocating compressors | 1 |
| Algeria | GHA B2160A AC | 575 | Air cooled chiller with screw compressors | 1 |
| Algeria | GHA B280A EC 34 | 280 | Air cooled chiller with screw compressors | 1 |
| Italy | GHH B 1140/34/BT/SC | 253 | Water cooled chiller with screw compressors | 1 |
| VIVO Cantine, Italy | TMA 3Z1050A EC-ZE CM | 2160 | Air cooled Circlemiser chiller with oil-free centrifugal compressors | 2 |
| VIVO Cantine, Italy | TMA 2W500A EC-ZE CM | 1450 | Air cooled Circlemiser chiller with oil-free centrifugal compressors | 3 |
| Italy | GHH - T 2180/34 | 600 | Water cooled chiller with oil-free centrifugal compressors | 1 |
| Italy | TMH-T 600/34 | 600 | Water cooled chiller with oil-free centrifugal compressors | 2 |
| Cantina la Guardiense, Italy | GHA B2125A EC-34 | 520 | Air cooled chiller with screw compressors | 1 |
| | GHA B3180A AC-34 | 1200 | | 1 |
| Cantina De Pra', Italy | TMA 2W400A EC-ZE | 400 | Air cooled chiller with oil-free centrifugal compressors | 1 |
| | VHA F2V30A EC-290 CM | 77.6 | Air cooled Circlemod chiller with reciprocating compressors | 1 |
| Santa Margherita S.p.A., Italy | TMA 2Z550A ES EC-ZE | 996 | Air cooled chiller with oil-free centrifugal compressors | 2 |
| Cantina Cà Maiol - Italy | TMA 2Z600A EC-ZE CM | 600 | Air cooled Circlemiser with oil-free centrifugal compressors | 1 |
| Yallumba Winery - Australia | GHA B2125A ES EC-34 K HR | 330 | Air cooled chiller with screw compressors and Evaporative System | 1 |
| V.S.T. Vini e spumanti - Italy | GHA F3180A EC-ZE HR | 500 | Air cooled chiller with screw compressors | 1 |
| Astoria Wines - Italy | TMH 1Z250 WT-ZE 2CC | 250 | Water cooled chiller with oil-free centrifugal compressors | 1 |
| Tenuta Belcorvo - Italy | TMA 3B1200A EC-34 | 1400 | Air cooled chiller with oil-free centrifugal compressors | 1 |
| Ferngrove Winery - Australia | GHA B2180 EC-34 K HR PU | 450 | Air cooled chiller with screw compressors | 1 |
| Cantina Sociale Ormelle - Italy | TMA 2B800A LN EC-13 CM | 939 | Air cooled Circlemiser | 1 |

CASE STUDIES



VI.V.O. CANTINE

Background

With almost 2000 producer members, over 4000 hectares of native and international vineyards, Vi.V.O. Cantine is the most important wine cooperative of the first degree of Eastern Veneto.

Purposes

The company has appointed Geoclima to develop two cooling systems capable of meeting three fundamental targets:

- guarantee the process of vinification of important quantities (130000 hl) in a short time and with low energy consumption, which is a key factor in the wine sector;
- pay particular attention to the environmental impact, both in terms of atmospheric emissions of refrigerant gases and noise levels;
- ensure continuous remote assistance, in order to be able to constantly monitor the system's performance, consumption and noise.

Project

Geoclima designed, built and installed two plants with 4 high-efficiency air-cooled Circlimisers (EER 4.17 kW/kW and 14.22 Btu/Wh), for a total capacity of almost 4 MW (1137 RT). The units are installed outside on the ground and are equipped with compressor boxes and DNC for dynamic noise regulation, to ensure low noise levels. To increase efficiency and reduce environmental impact, the ecological refrigerant HFO-1234ze (GWP <1) was chosen. Finally the units are constantly monitored remotely thanks to our web-based platform that allows real-time control and direct intervention on the machine parameters.





SUTTO FAMILY

Background

Geoclima confirms itself as the leading refrigeration company in the wine sector. Sutto Family, a made in Italy brand of worldwide presence since 1933, has commissioned Geoclima to carry out an important ad hoc project for the control of over 30000 hL of wine in the fermentation, vinification and maintenance processes of its cellar.

Purposes

The primary needs of the project were to ensure the highest levels in terms of energy savings and environmental sustainability. Two key points of all our production and the reason that led Sutto Family to choose us for this prestigious project.

Project

For refrigeration in the fermentation, vinification and maintenance processes of over 30000 hL of wine, we provided a 600 kW (170 RT) Circlémiser chiller, with Turbocor compressors, innovative circular condensers, DNC (dynamic noise control) and low GWP refrigerant HFO-1234ze (GWP <1).

For the refrigeration in the bottling process of over 3000 hL of wine, we provided a 100 kW (28 RT) modular Circlémód air-cooled chiller, with semi-hermetic inverter compressors, exclusive circular condensers and R290 natural refrigerant (GWP = 3).

To keep constant temperatures and humidity throughout the year in the new barrel room, currently composed of 160 barrels, we provided a 7000 m³/h Climatech air handling unit, powered by a split refrigeration VSE and a 40 kW (11 RT) Althermo modular remote condenser.





ABOUT US

We design and produce special units for applications in air conditioning, refrigeration and air handling systems, with low environmental impact and specifically designed to meet all specific clients' requirements in terms of size, capacity, performance and temperature. **Where the others stop, we go on.**

Our identity is founded on:



INNOVATION

We use the highest technology available in order to maximize efficiency, reduce start-up costs and guarantee a satisfactory return on investment.



CUSTOMIZATION

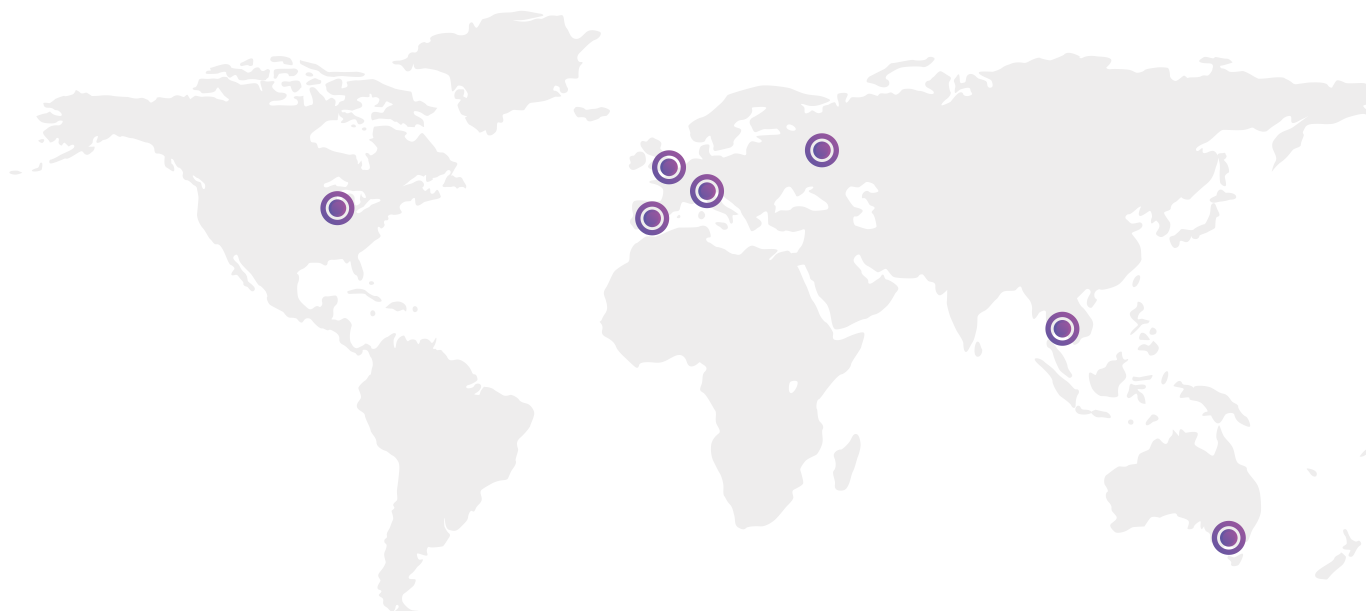
All types of machines can be provided and developed in non-standard version, thanks to the flexibility of our production system.



ECO-SUSTAINABILITY

We aim to develop applications with the lowest environmental impact possible, using refrigerants with a very low GWP, such as the HFO-1234ze and the R290.

Our facilities and sales offices around the world.



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