

Training Center of AC ChievoVerona



Name of project: VERONELLO - ChievoVerona Servizi srl
Official Sport Center AC ChievoVerona

Typology: Special construction

Location: Verona, Italy

Building owner: Veronello - ChievoVerona Servizi srl

Project developer: Bacciconi Ing. Alessandro
Studio Tecnico Bacciconi, Verona
info@bacciconi.it

Contracting companies: Maurizio Volpato
Bortoletti Silvano & C. snc
Verona, Italy

Construction project: Central heating system in the changing rooms, floor heating, water heating system for 22-24 showers (9 l/min)

- Vaillant products:
- Condensing boiler ecoBLOCK plus VM1206/5 (120 kW)
 - Control system calorMATIC 630
 - aIISTOR storage system with 2 multi-function tanks aIISTOR plus VPS 2000/3-5 (2000 l) and 1 aIISTOR plus VPS 500/3-5 (500 l)
 - Solar charging system auroFLOW exclusive VPM 60/2 S
 - 18 solar collectors auroTHERM plus VFK 155 V
 - as well as 1 mixing module VR 60, 1 Vaillant solar expansion tank (140 l), 1 additional safety tank (12 l) and 6 solar fluid tanks (20 l)

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The good feeling of doing the right thing.

The AC ChievoVerona football club of northern Italy sought a new, **eco-friendly and energy-saving heating and hot water system** for its training centre located near the city of Verona. For this purpose, Studio Tecnico Bacciconi of Verona installed a pressure/solar thermal system from Vaillant comprising 18 solar modules and a multi-function storage system with numerous components and supplemented by a condensing boiler for the reliable and energy-efficient heating of the changing rooms by means of floor heating, in addition to heating up the water for the showers.

Warm feet for the players of Chievo: Renewable energies and Vaillant building technology now bring much more comfort for the football players of AC ChievoVerona. The professional first league football club - named after the locality of Chievo, a suburb of Verona with 4,500 residents - shares a 38,402-seat football stadium with its rival Hellas Verona. Ideal training conditions, on the other hand, are provided to the historic club in the official sports centre in the vicinity of Verona, about two kilometres from Lake Garda. The club trains there in the Veronello building complex, which consists of diverse football fields, tennis, volleyball and beach volleyball courts and a hotel complex. Since it is located near the water, there are also many opportunities for water sports. The complex offers everything that is needed for training and preparation for the matches. The "Sport Center AC ChievoVerona - Veronello - ChievoVerona Servizi srl" also serves as the club's headquarters.

The architecture of the building complex is functional and in keeping with the typical architectural style of the region. On the other hand, the project was implemented using innovative new building technology with integrated solar thermal energy, which improves the energy efficiency of the entire building complex.

Since 2014 the buildings of the newly renovated sports center are heated by a complex system that was planned by Studio Tecnico Bacciconi of Verona and installed by Bortoletti Silvano & C. snc. As the engineer Alessandro Bacciconi points out, he had complete freedom in the implementation of the project, including the choice of the systems and products.

To fulfil the requirements for comfort and energy efficiency during the renovation of the building, Bacciconi made an informed choice for **building technology based on the components of the allSTOR VPS storage system from Vaillant**. As the core of the system, it stores the heat from the solar collectors and condensing boiler for later use for heating or hot water.

The renovation included installation of a floor heating system in the changing rooms to create a pleasant indoor environment for the players, in addition to supplying the hot water for up to 24 showers, with a capacity of 9 litres per hour. **The entire system is based on the installation of a pressure/solar thermal system consisting of 18 solar collectors of the type auroTHERM plus VFK 155 V, which were installed in two parallel rows of nine elements each. The collectors are integrated by means of the solar charging station auroFLOW exclusive VPM.60/2 S, which is responsible for the thermal transfer from the collector array to the allSTOR plus storage system. The additional installation of an ecoBLOCK plus condensing boiler likewise heats water and therefore supplements the solar thermal system for the supply of hot water for the showers and the floor heating. The heated water is stored in a total of three allSTOR plus multi-function tanks with different capacities. The entire system is controlled by a calorMATIC 630 control system.** The sensor allows heating of the water in the tanks to a maximum temperature of 70 °Celsius.

The successfully implemented, complex system has been operating reliably since 2014, providing the players of ChievoVerona with the comfort necessary to recover in their facilities after a hard training session on the field. The club, which plays in the A series of the Italy's first league, is therefore at the highest level in this respect, as well.

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