

Marciana National Library of Venice

After installation in late 1999 of a heating and cooling system in the Hall of Sansovino and in the Antisala in the Marciana National Library of Venice, LAMBDA Spa was commissioned to conduct a study on micro-climatic conditions of wooden coffered ceilings, and particularly valuable canvases painted in the two areas of the complex.

The via radio system installed, has allowed great flexibility measures, allowing easily moving of the sensors in order to evaluate different conservation problems.

On the basis of data obtained from monitoring, that gave values of temperature and relative humidity not compatible with the requirements of conservation of the decorative, has been prepared a project to allow the electronic management of the entire system and integrate the air conditioning system heat pump with a controlled humidification system capable of stabilizing the temperature and humidity conditions of the environment.

In July 2003, LAMBDA Spa has completed the execution of the project for the control of the HVAC units. To do this, the radio system has been transformed into a final system by wire, the Wireclimart, with 12 sensors of temperature and relative humidity. A weather sensor also allows to evaluate the influence of outdoor climate on indoor environmental parameters.

