

**A masterpiece at the service of other masterpieces:
Mitsubishi Electric for Santa Caterina Museum in
Treviso**

Milan, 26 March 2021 – The Santa Caterina complex is in the historic center of the beautiful city of Treviso. The complex consists of two adjacent buildings, whose construction began in 1346: the former Convent of the Servants of Mary, built on the ruins of the Da Camino palace, and the former church of Santa Caterina of Alessandria, which was only completed in the early 1500s. In 1772 the convent closed its doors and the buildings were auctioned off, and a few decades later the church and convent were returned to the local government and intended for military use as result of Napoleonic laws. It was only in post-World War II that the real value of this complex was understood and the first significant refurbishment efforts were undertaken.

Between 2015 and 2018 the most significant restoration work was completed, which transformed the old complex into one of the Treviso's Civic Museums headquarters. The refurbishment has restored to its former glory numerous treasures such as the 14th and 15th century frescoes including the precious Stories of Saint Ursula by Tomaso da Modena, from 1350. Today in the long hall on the first floor of the deconsecrated Church there is the picture gallery, which houses the Gallery of Medieval, Renaissance, and Modern Art, while on the ground floor and the underground level there is the Archaeological Section, a rich collection that documents over 100,000 years of history of the Treviso area, from the Stone Age to Roman times. The convent, on the other hand, with its green and elegant cloisters, houses the vast underground hall, intended for temporary

exhibitions. Thanks to its strategic position and its sober and elegant rebirth, the complex is the ideal venue for cultural events and exhibitions.

Such a varied historical complex, with an exhibition of works of art to preserve, and various number of visitors throughout the year and week, needs a highly flexible air conditioning system. The location of the buildings, in the historic center, also requires a solution with reduced environmental and acoustic impact. The TFE engineering firm in Venice, responsible for the design and installation of mechanical and electrical systems, therefore designed a 4-pipe air conditioning system based on two multipurpose NECS-WQ 0512 units, connected to two extraction wells. These units from Climaveneta, a Mitsubishi Electric brand, can simultaneously produce heating and cooling, allowing for example a room open to the public in the winter to be heated while maintaining in other rooms a lower temperature suitable for the correct preservation of the works of art present. Thanks to the heat, otherwise dispersed, that is recovered and to the use of groundwater, which has a constant temperature throughout the year, the energy efficiency of the entire air conditioning system is maximized. The water source multipurpose units, which have been installed in an internal technical room, do not produce any local CO₂ emissions and produce minimum noise emissions, guaranteeing perfect comfort for visitors of the Santa Caterina Museum Complex.



Mitsubishi Electric

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