



CASE STUDY · BORGIO MONCHIERO

How do you design a climate control system for a hotel in a historic building?

A former monastery in the Langhe region, renovated to improve energy efficiency and transformed into a luxury hotel.

8 Mirai units
connected in parallel

3 etiKa Power
boilers in cascade

Silence THIN ETI
fan coil units

Complete renovation of the plumbing, heating and cooling systems.



THE PROJECT OBJECTIVE:

Luxury hotel comfort, with respect for a historic building

The complete renovation of the building services was driven by three specific design requirements.

01 Maximum capacity modulation

Adjust energy output to match the property's actual demand, which varies according to occupancy and how spaces are used.

02 Quiet operation

Ensure the level of acoustic comfort expected of a luxury hotel throughout the rooms and suites.

03 Limited space for equipment

Integrate heating and cooling equipment and terminal units without compromising the historic architecture or interior design.

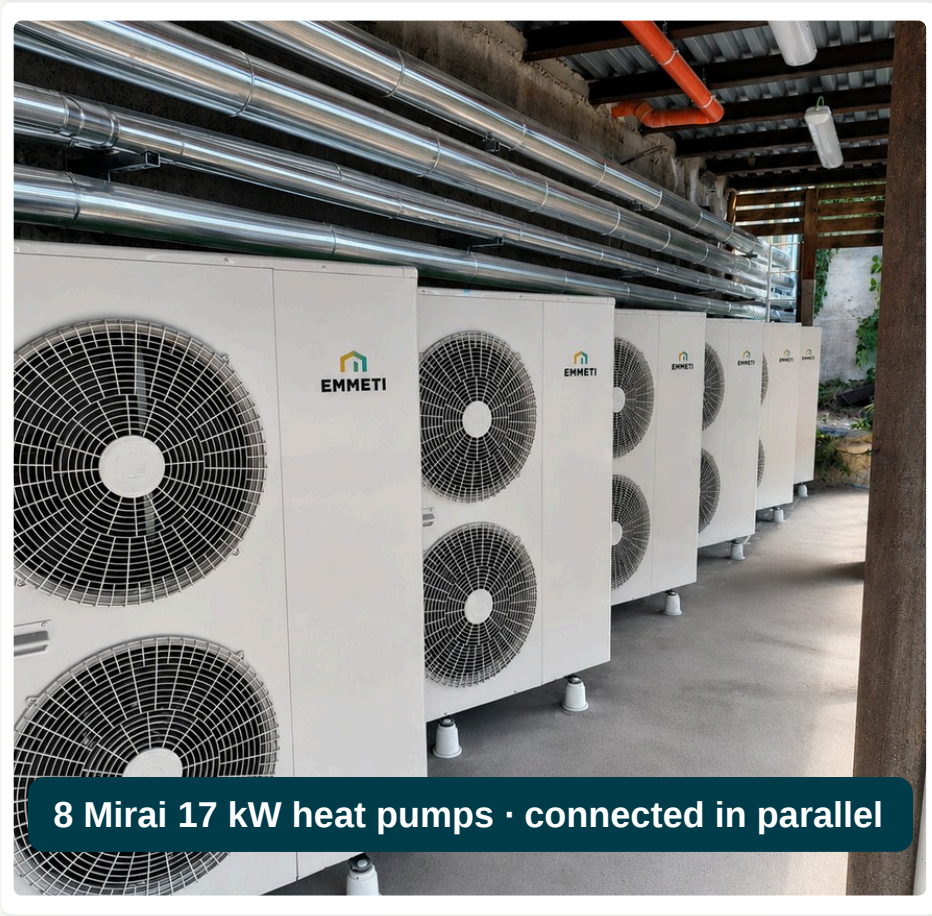


19 rooms and suites · ranging from 19 to 44 m²

INTEGRATED SYSTEM

A hybrid system that adapts to the hotel's demand

Heating and cooling equipment and terminal units operate within a coordinated system.



8 × MIRAI

Heat pumps provide the primary output, connected in parallel for greater modularity and responsiveness.

3 × etiKa Power 115

Boilers installed in cascade provide additional capacity to meet winter heating demand.

SILENCE THIN ETI

Concealed fan coil units integrated into bespoke furniture in the rooms and suites.



THE RESULT

Technology integrated into the architecture

The result is a system designed around how the property is actually used: capacity modulation, acoustic comfort, support for winter heating demand and terminal units integrated into the furniture.

Only then is the building services solution developed.

