

# > Milan, new multifunctional building

## Advantages of EW-HT against traditional boilers, for domestic hot water production

- 19,000 sq m new mixed use complex: 11,000 sq m exhibiton area and 8,000 sq m offices
- The high performing 4-pipe HVAC system is based on 4 Integra smart heat pumps for simultaneous heating and cooling integrated with one water to water heat pump for very high temperature water, providing 3480 kW total cooling capacity and 3764 kW total heating capacity.
- 4-pipe heating and cooling system supplies also 35-45 °C hot water to EW-HT
- This analysis compares two solutions for domestic water production in the building: the heat pump EW-HT (70 kW ) against traditional boiler (80 kW).

### ENERGY EFFICIENCY

**+34,1%**

More energy efficient  
than traditional boilers

### CO<sub>2</sub> EMISSIONS

**-47,3%**

Reduction compared to  
traditional boilers

### ECONOMIC

**-5,1% saving**

On energy bill

EW-HT heat pump uses a part of the medium temperature water provided by the INTEGRA smart heat pump for 4-pipe systems as a source to produce very high temperature water, up to 78 °C. The need for domestic hot water, as well as legionella prevention cycles, can be finally satisfied in an efficient and sustainable way, saying goodbye to old boilers.



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