

 Region:
 Trentino
 Archetype code:

 Building category:
 Office buildings
 OFF_

 Period of construction:
 >2011
 2011-_F_TN

 Climatic zone:
 F
 Number of records:
 143

Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):

1 01 100 103.

External walls: no data available Roof slabs: no data available

Data sources: EPC databases (100%)

| | Data | Symbol | Unit of | Mean value | Standard deviation | Q1 (first | Median value | Q3 (third | |
|--------------------------|---|---|---------------------|-----------------|--------------------|-----------|-----------------|-----------|--|
| AETRY | Number of floors | ne | measure - | value - | deviation | quartile) | value | quartile) | |
| | | n _f | | | - | | | - | |
| | Gross height | Hg | m m ² | | - | - | _ | - | |
| | Footprint area Heated gross floor area | A _{footprint} | m ² | - | - | - | - | - | |
| | Heated gross floor area | A _{H;g} | m ² | 205 | 759 | - 02 | 164 | 205 | |
| | | A _{H;n} | | 395 | 759 | 82 | 164 | 385 | |
| ő | Heated gross volume | V _{H;g} | m ³ | 1007 | 2070 | - 247 | 74.0 | 1012 | |
| BUILDING GEOMETRY | Heated net volume | V _{H;n} | m³ | 1967 | 3879 | 347 | 710 | 1813 | |
| | Compactness ratio | A _{env} /V _{H;g} | m ⁻¹ | 0.61 | 0.21 | 0.44 | 0.60 | 0.72 | |
| ₽ | WWR – North orientation | WWR _N | - | - | - | - | - | - | |
| BU | WWR – South orientation | WWR _S | - | - | - | - | - | - | |
| | WWR – East orientation | WWR _E | - | - | - | - | - | - | |
| | WWR – West orientation | WWR _W | - | - | - | - | - | - | |
| | Window to useful floor area ratio | A _{wi} /A _{use} | - | - | - | - | - | - | |
| | Roof type | | | | - | | | | |
| | <i>U</i> -value of the roof | U _{fl;up} | W/(m²⋅K) | - | - | - | - | - | |
| | External walls type | | | | - | | | | |
| ЭРЕ | <i>U</i> -value of the wall | U_{wl} | W/(m²⋅K) | - | - | - | - | - | |
| ENVELOPE | Slab on ground floor type | | | | - | | | | |
| Ë | <i>U</i> -value of the floor | $U_{fl;lw}$ | W/(m²⋅K) | - | - | - | - | - | |
| | Windows type | | | | - | | | | |
| | <i>U</i> -value of the windows | U_{W} | W/(m²⋅K) | - | - | - | - | - | |
| | Shading system type | | | | - | | | | |
| _ | Occupancy density * | O _C person/m ² UNI EN 16798-1 | | | | | | | |
| 필인 | Lighting power density * | W∟ | W/m ² | UNI EN 16798-1 | | | | | |
| GAINS and VENTILATION | Equipment power density * | W _A | W/m² | UNI EN 16798-1 | | | | | |
| G G | Type of ventilation | Natural: 100% | | | | | | | |
| | Air exchange rate * | n | h ⁻¹ | UNI EN 16798-1 | | | | | |
| | Heating system type | Centralized: 41%; Unknown 36%; Autonomous: 23% | | | | | | | |
| THERMAL SYSTEMS | Heating generator | Boiler (unknown type): 81%; ; Unknown: 12%; Heat exchanger of district heating/cooling: 5%; Fireplace: 2% | | | | | | | |
| | Daily operating time of the heating system * | t _H | h | h No limitation | | | | | |
| | Energy carrier | Natural Gas: 56%; Electricity: 8%; District heating: 5%; Electricity from PV, wind turbines, hydraulic turbines: 2%; Gas Oil: 8%; Liquid and gaseous biomass: 2%; LPG: 3%; Solid biomass: 16% | | | | | | | |
| | Heating emission sub- system | - | | | | | | | |
| | Cooling system type | Unknown: 83%; Air-cooled chiller: 17% | | | | | | | |
| | Daily operating time of the cooling system * | t _C | h | No limitation | | | | | |
| | Cooling emission sub- system | - | | | | | | | |
| | DHW system type | Autonomous – coupled with heating: 31%; Autonomous - detached from heating: 25%; Centralized – coupled with heating: 20%; Unknown: 16%; District heating: 8% | | | | | | | |
| | DHW generator | Natural gas boiler: 48%; Electric Heat Pump: 30%; Unknown 17%; Electric boiler: 5% | | | | | | | |
| | * These values were not available in the considered sources, and are thus derived from UNI EN Standards | | | | | | | | |



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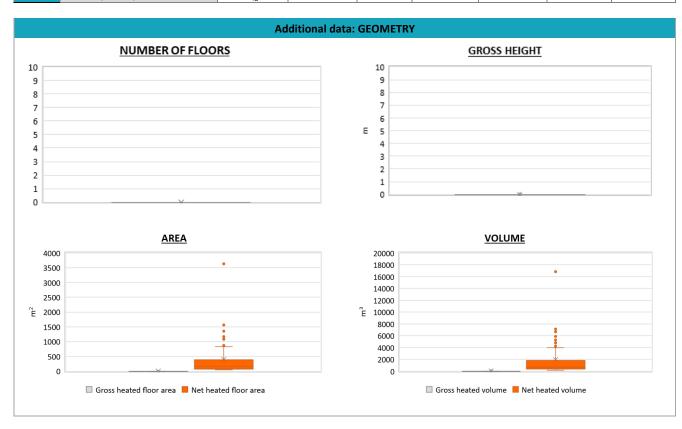
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| ADDITIONAL DATA | | | | | | | | |
|-----------------|---------------------------|--|-----------------|---|--------------------|---------------------|-----------------|---------------------|
| | Data | Symbol | Unit of measure | Mean value | Standard deviation | Q1 (first quartile) | Median value | Q3 (third quartile) |
| THERMAL SYSTEMS | Heating efficiency or COP | η _{H;gen} or <i>COP</i> _{H;gen} | - | This value has to be retrieved from suitable datasheets | | | | |
| | Total heating power | P _{H;gen} | kW | 87 | 151 | 24 | 35 | 92 |
| | Cooling efficiency or EER | η _{C;gen} or <i>EER</i> _{C;gen} | - | This value has to be retrieved from suitable datasheets | | | | |
| | Total cooling power | P _{C;gen} | kW | 38 | 174 | 12 | 27 | 48 |
| | Temperature of DHW | ϑ_{W} | °C | - | - | - | - | - |
| | DHW system power | $P_{\mathrm{W;gen}}$ | kW | - | - | - | - | - |





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