

 Region:
 Trentino
 Archetype code:

 Building category:
 Commercial
 COMM\_

 Period of construction:
 1981-1990
 1981-1990\_F\_TN

 Climatic zone:
 F
 Number of records:
 180

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

External walls: no data available

Data sources: EPC databases (100%)

Roof slabs: no data available

	Data	Symbol Unit of Mean Standard Q1 (first				Median Q3 (third					
	Data	Symbol	measure	Mean value	deviation	quartile)	value	quartile)			
BUILDING GEOMETRY	Number of floors	n <sub>f</sub>	-	-	-	-	-	-			
	Gross height	Hg	m	-	-	-	_	-			
	Footprint area	A <sub>footprint</sub>	m²	-	-	-	-	-			
	Heated gross floor area	A <sub>H;g</sub>	m²	-	-	-	-	-			
	Heated net floor area	A <sub>H;n</sub>	m²	201	353	71	97	190			
	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-	-			
	Heated net volume	V <sub>H;n</sub>	m³	844	1570	279	382	761			
	Compactness ratio	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.63	0.18	0.51	0.64	0.73			
	WWR – North orientation	WWR <sub>N</sub>	-	-	-	-	-	-			
5	WWR – South orientation	WWR <sub>S</sub>	-	-	-	-	-	-			
	WWR – East orientation	WWR <sub>E</sub>	-	-	-	-	-	-			
	WWR – West orientation	WWR <sub>W</sub>	-	-	-	-	-	-			
	Window to useful floor area ratio	A <sub>wi</sub> /A <sub>use</sub>	-	-	-	-	-	-			
	Roof type				-						
	<i>U</i> -value of the roof	U <sub>fl;up</sub>	W/(m²⋅K)	-	-	-	-	-			
	External walls type	, .			-						
PE	<i>U</i> -value of the wall	U <sub>wl</sub>	W/(m²·K)	-	-	-	-	-			
ELC	Slab on ground floor type				-						
ENVELOPE	<i>U</i> -value of the floor	U <sub>fl;lw</sub>	W/(m²⋅K)	-	-	-	-	-			
_	Windows type				-						
	<i>U</i> -value of the windows	U <sub>W</sub>	W/(m²⋅K)	-	-	-	-	-			
	Shading system type				-						
	Occupancy density *	O <sub>C</sub>	O <sub>C</sub> person/m <sup>2</sup> UNI EN 16798-1								
P N	Lighting power density *	W <sub>L</sub>	W/m <sup>2</sup>		UNI EN 16798-1						
GAINS and VENTILATION	Equipment power density *	W <sub>A</sub>	W/m²		UNI EN 16798-1						
A M	Type of ventilation	Natural: 100%									
	Air exchange rate *	n	h-1	UNI EN 16798-1							
	Heating system type	Unknown 46%; Centralized: 31%; Autonomous: 23%									
	Heating generator	Boiler (unknown type): 97%; Air-source heat pump 2%; Fireplace; 1%									
	Daily operating time of the heating system *	t <sub>H</sub>	h	No limitation							
S	Energy carrier	Electricity: 67%; District heating: 33%									
THERMAL SYSTEMS	Heating emission sub- system	-									
	Cooling system type	Unknown: 98%; Air-cooled chiller: 2%									
	Daily operating time of the cooling system *	t <sub>C</sub>	h		No limitation						
	Cooling emission sub- system	-									
	DHW system type	Autonomous - detached from heating: 36%; Unknown: 31%; Autonomous – coupled with heating: 16%;  Centralized – coupled with heating: 16%; District heating: 1%									
	DHW generator	Na	atural gas boiler:	: 32%; Electric	Heat Pump: 25	%; Unknown: 2	3%; Electric boile	er: 20%			
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards										



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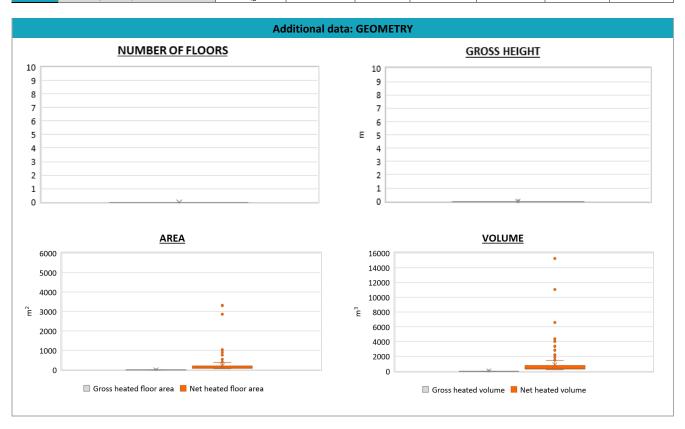
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or COP	η <sub>H;gen</sub> or <i>COP</i> <sub>H;gen</sub>	-	This value has to be retrieved from suitable datasheets				
	Total heating power	P <sub>H;gen</sub>	kW	78	110	25	32	94
	Cooling efficiency or EER	η <sub>C;gen</sub> or <i>EER</i> <sub>C;gen</sub>	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	P <sub>C;gen</sub>	kW	170	321	6	7	178
	Temperature of DHW	$\vartheta_{\sf W}$	°C	-	-	-	-	-
	DHW system power	P <sub>W;gen</sub>	kW	37	61	2	25	40





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