

 Region:
 Trentino Alto Adige

 Building category:
 Commercial buildings

 Period of construction:
 <1930</th>

 Climatic zone:
 E
 Number of records:
 523

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

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

Data sources: APE (100%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third		
			measure	value	deviation	quartile)	value	quartile)		
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	-	-	-		
	Gross height	H_{g}	m	-	-	-	-	-		
	Footprint area	$A_{footprint}$	m²	-	-	-	-	-		
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-		
	Heated net floor area	$A_{H;n}$	m²	123	132	86	126	1941		
	Heated gross volume	$V_{H;g}$	m³	-	-	-	-	-		
	Heated net volume	$V_{H;n}$	m³	576	611	30	411	600		
	Compactness ratio	A _{env} /V _{H;g}	m⁻¹	0.58	0.17	0.47	0.56	0.68		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
Ē	WWR – South orientation	<i>WWR</i> _S	-	-	-	-	-	-		
_	WWR – East orientation	WWR _E	-	-	-	-	-	-		
	WWR – West orientation	<i>WWR</i> _W	-	-	-	-	-	-		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	-	-	-	-	-		
	Roof type				-					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m ² ·K)	-	-	-	-	-		
	External walls type				-					
) PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	-	-	-	-	-		
ĒĽ	Slab on ground floor type				-					
ENVELOPE	<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				-					
z	Occupancy density *	O _C	person/m²	UNI EN 16798-1 - Table A.19						
and TIO	Lighting power density *	W∟	W/m²	UNI EN 16798-1 - A.8.3						
GAINS and VENTILATION	Equipment power density *	W _A	W/m ²	UNI EN 16798-1 - A.8.3						
SAI	Type of ventilation		Natural: 100%							
~ ≥	Air exchange rate *	n								
	Heating system type	Unknown: 53%, Autonomous: 36%, Centralized: 11%								
	Heating generator	Boiler (Unknown): 40%, Traditional boiler: 22%, Air source heat pump: 20%, District heating: 10%, Condensing boiler: 8%								
(0	Daily operating time of the heating system *	t _H	h	14	-	14	14	14		
EMS	Energy carrier	Na	ntural gas: 87%, I	Electricity:	9%, Solid biom	ass: 2%, District	heating: 1%, Gas	Oil: 1%		
THERMAL SYST	Heating emission sub-system	-								
	Cooling system type	Unknown: 91%, Absorption chiller: 8%, Water-cooled chiller: 1%								
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	Unknown: 40%, Autonomous - coupled with heating: 28%, Autonomous - detached from heating: 26%, Centralized – coupled with heating: 5%, DHC: 1%								
	DHW generator	Unknown: 41%, Natural gas boiler: 33%, Electric Heat Pump: 17%, Electric boiler: 9%								
	* These values were not available in the considered sources, and are thus derived from NI EN Standards									



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 Archetype code:

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 COMM_-1930_E_TN

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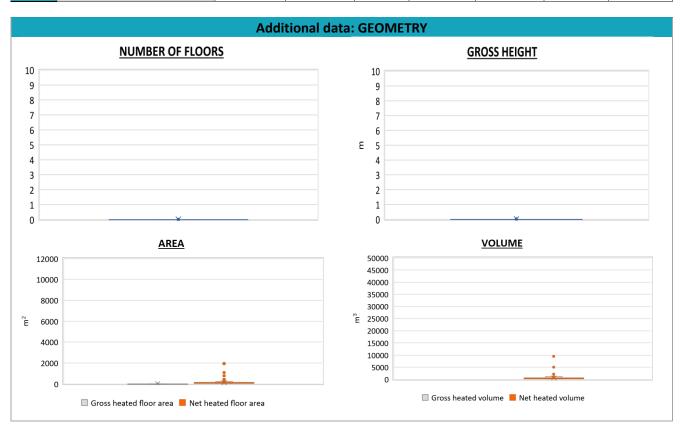


The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.



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Building category:	category: Commercial buildings			
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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	$\eta_{\sf H;gen}$ or $ extit{COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total heating power	P _{H;gen}	kW	40	67	24	26	30	
	Cooling efficiency or EER	$\eta_{C;gen}$ or $\mathit{EER}_{C;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total cooling power	P _{C;gen}	kW	19	31	5	8	20	
	Temperature of DHW	ϑ_{W}	°C	40	-	40	40	40	
· ·	DHW system power	P _{W;gen}	kW	-	-	-	-	-	





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