

 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Commercial buildings
 COMM_1991-2020_E

 Period of construction:
 1991-2020

Climatic zone: E Number of records: 61

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%)

	Doto	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third		
	Data	Symbol	measure	value	deviation	quartile)	value	quartile)		
BUILDING GEOMETRY	Number of floors	nf	-	-	-	- quartie,	-	-		
	Gross height	Hg	m	-	_	-	_	-		
	Footprint area	A _{footprint}	m ²	-	_	-	_	-		
	Heated gross floor area	A _{H;g}	m ²	_	_	-	_	_		
	Heated net floor area	A _{H;n}	m ²	410.91	325.60	312.12	405.00	450.00		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m ³	2497.99	1456.23	2200.00	2200.00	2500.00		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.60	0.09	0.53	0.60	0.60		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
3	WWR – South orientation	WWR _S	_	_		_	_	_		
8	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	- 11,up	, (-	<u> </u>				
Ä	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²⋅K)	0.26	0.04	0.25	0.25	0.25		
ENVELOPE	Slab on ground floor type	-								
Ž	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²⋅K)	-	-	-	-	-		
	Windows type	- 1900 - 17 (17)								
	<i>U</i> -value of the windows	U _w	W/(m²⋅K)	-	-	-	-	-		
	Shading system type		, , ,		-					
7	Occupancy density *	O _C	person/m²		Ul	NI EN 16798-1 -	Table A.19			
ē ģ	Lighting power density *	W _L	W/m ²			UNI EN 16798-1				
GAINS and	Equipment power density *	W _A	W/m ²			UNI EN 16798-1				
A E	Type of ventilation		•	Natural: 28%, Mechanical: 72%						
A A	Air exchange rate *	n	h ⁻¹ UNI EN 16798-1 - A.3.1							
	Heating system type	Autonomous: 100%								
	Heating generator	Air source heat pump: 65%, Unknown: 29%, Condensing boiler: 6%								
	Daily operating time of the heating system *	t _H	h	14	-	14	14	14		
2	Energy carrier	Electricity: 91%, Natural gas: 8%, Solid biomass: 1%								
	Heating emission sub- system	Convectors: 88%, Fan coil: 6%, Radiators: 3%, Air heater: 3%								
\LS	Cooling system type	Air-cooled chiller: 62%, Unknown: 38%								
THERMAL SYSTEN	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub- system	Fan coil: 60%, Radiant panels: 40%								
	DHW system type	Autonomous - detached from heating: 57%, Unknown: 28%, Autonomous – coupled with heating: 15%								
	DHW generator	Solar thermal: 63%, Unknown: 32%, Natural gas boiler: 4%, Electric boiler: 1%								
	* These values were not available in th	These values were not available in the considered sources, and are thus derived from UNI EN Standards								



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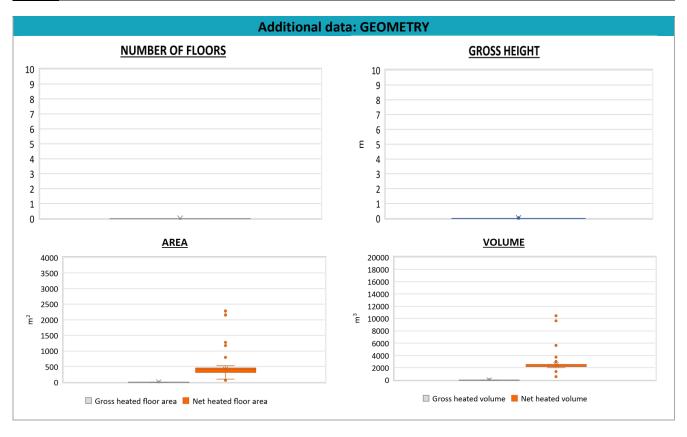
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{\sf H;gen}$ or $ extit{COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power	P _{H;gen}	kW	141	139	91	97	108
	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	135	127	70	70	111
	Temperature of DHW	$artheta_{W}$	°C	40	-	40	40	40
	DHW system power	P _{W;gen}	kW	7	19	3	3.3	3.5





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