

 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Residential buildings - Single family
 RES_SINGLE_1991-2020_C

 Period of construction:
 1991-2020

 Climatic zone:
 C
 Number of records:
 20

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		Q1 (first	Median Q3 (third				
	Data	Зуппоот	measure	value	deviation	quartile)	value	quartile)	
BUILDING GEOMETRY	Number of floors	nf	-	-	-	-	-	-	
	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	358.71	301.35	157.33	244.87	435.86	
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-	
	Heated net volume	V _{H;n}	m ³	1519.57	1252.46	700.17	1057.16	2023.03	
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.69	0.14	0.59	0.69	0.75	
	WWR – North orientation	WWR _N	-	-	-	-	-	-	
5	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/(m ² ·K)	-	-	-	-	-	
	External walls type	-							
PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	0.26	0.07	0.22	0.24	0.32	
Ē	Slab on ground floor type	-							
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-	
_	Windows type	-							
	<i>U</i> -value of the windows	U _W	W/(m²·K)	-	-	-	-	-	
	Shading system type	-							
z	Occupancy density *	O _C person/m ² UNI EN 16798-1 - Table A.19							
GAINS and	Lighting power density *	W _L							
NS ILA	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3							
GAI	Type of ventilation	Mechanical: 96%, Natural: 4%							
>	Air exchange rate *	n	h ⁻¹	0.3 - 0.3 0.3 0.3					
	Heating system type	Autonomous: 100%							
	Heating generator	Air source heat pump: 91%, Unknown: 5%, Condensing boiler: 4%							
	Daily operating time of the heating system *	t _H	h	10	-	10	10	10	
AS .	Energy carrier	Electricity: 95%, Natural gas: 5%							
THERMAL SYSTEN	Heating emission sub- system	Air Heaters: 60%, Fan coil: 40%							
	Cooling system type	Air-cooled chiller: 74%, Unknown: 26%							
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-	
	Cooling emission subsystem	Radiant panels: 71%, Fan coil: 29%							
	DHW system type	Autonomous - coupled with heating: 56%, Autonomous - detached from heating: 44%							
	DHW generator	Solar thermal: 92%, Natural gas: 8%							
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards								



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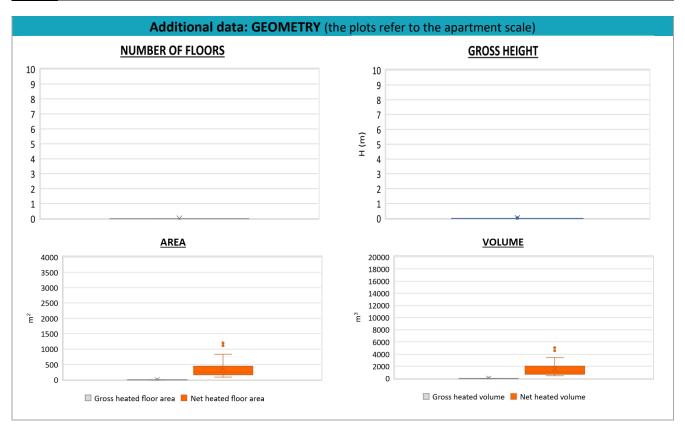
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	-	This value has to be retrieved from suitable datasheets				
	Total heating power	P _{H;gen}	kW	23	19	10	16	32
	Cooling efficiency or EER	$\eta_{ extsf{C}; extsf{gen}}$ or $ extsf{\textit{EER}}_{ extsf{C}; extsf{gen}}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	P _{C;gen}	kW	16	15	7	11	16
	Temperature of DHW	ϑw	°C	40	-	40	40	40
	DHW system power	P _{W;gen}	kW	21	23	5	9	36





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