

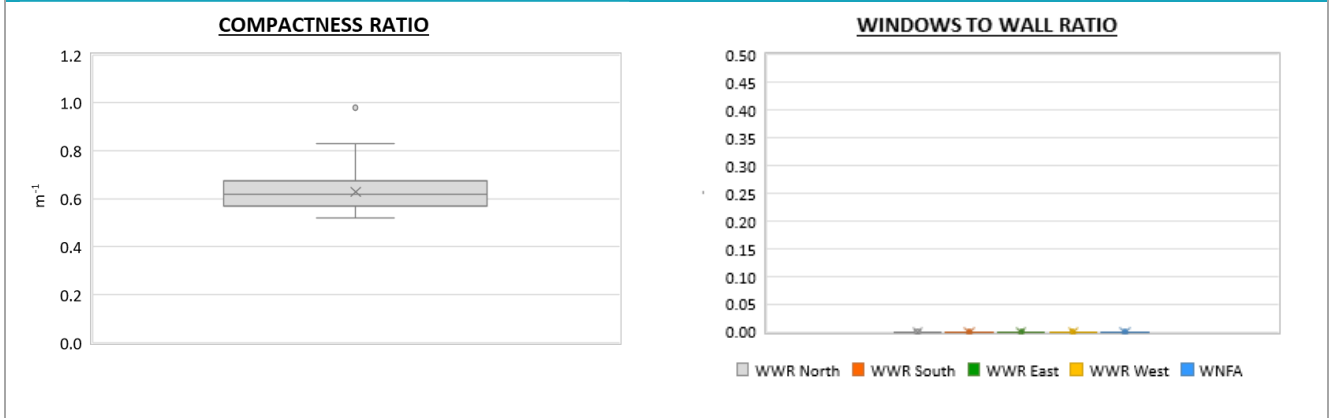
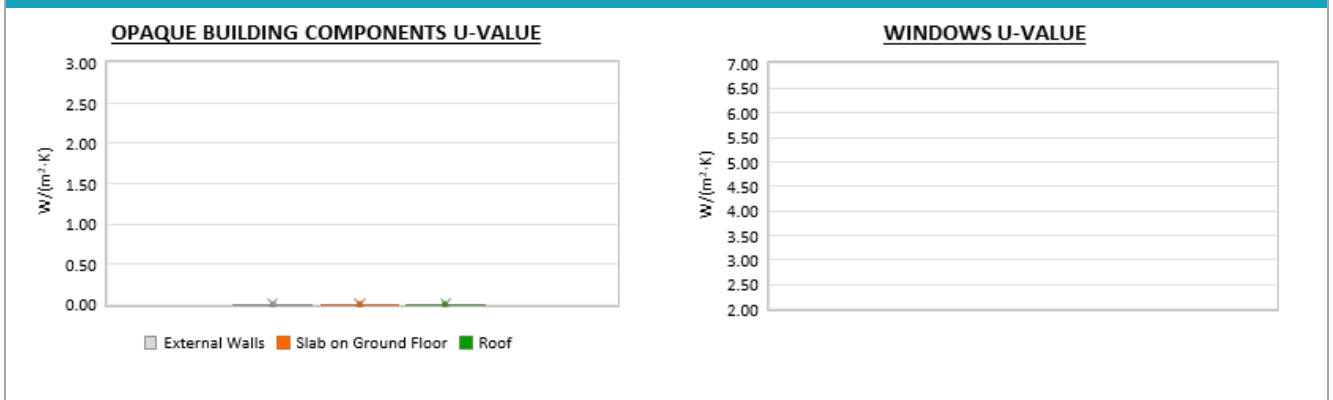
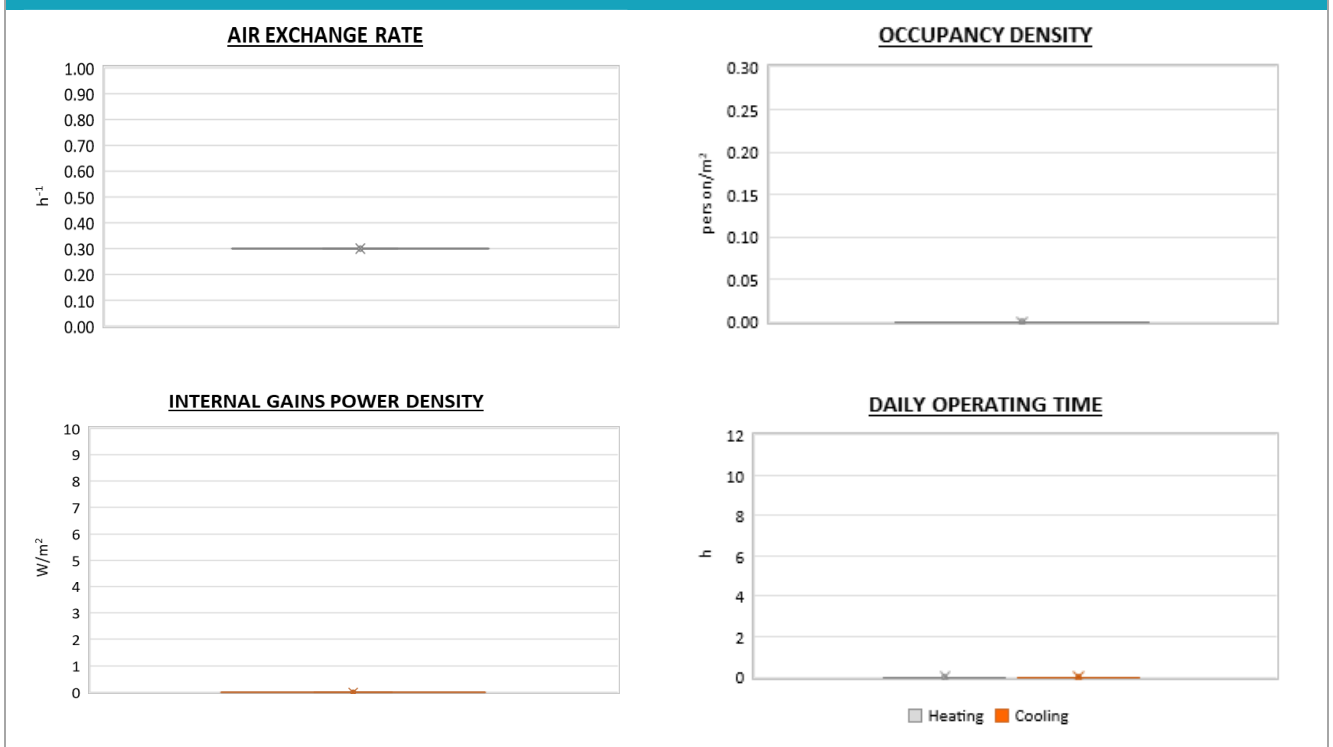
Region:		Trentino					Archetype code:		
Building category:		Residential multifamily buildings					RES_APPBLOCK_		
Period of construction:		1971-1980					1971-1980_F_TN		
Climatic zone:		F	Number of records:		3525				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):						Data sources:			
External walls: no data available						EPC databases (100%)			
Roof slabs: no data available									
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
BUILDING GEOMETRY	Number of floors	n_f	-	-	-	-	-	-	
	Gross height	H_g	m	-	-	-	-	-	
	Footprint area	$A_{\text{footprint}}$	m ²	-	-	-	-	-	
	Heated gross floor area	$A_{H;g}$	m ²	-	-	-	-	-	
	Heated net floor area	$A_{H;n}$	m ²	1006	1774	353	445	735	
	Heated gross volume	$V_{H;g}$	m ³	-	-	-	-	-	
	Heated net volume	$V_{H;n}$	m ³	3442	5578	1299	1683	2738	
	Compactness ratio	$A_{\text{env}}/V_{H;g}$	m ⁻¹	0.60	0.09	0.57	0.62	0.68	
	WWR – North orientation	WWR_N	-	-	-	-	-	-	
	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}	-	-	-	-	-	-	
ENVELOPE	Roof type	-							
	U-value of the roof	$U_{\text{fl;up}}$	W/(m ² ·K)	-	-	-	-	-	
	External walls type	-							
	U-value of the wall	U_{wl}	W/(m ² ·K)	-	-	-	-	-	
	Slab on ground floor type	-							
	U-value of the floor	$U_{\text{fl;lw}}$	W/(m ² ·K)	-	-	-	-	-	
	Windows type	-							
	U-value of the windows	U_W	W/(m ² ·K)	-	-	-	-	-	
Shading system type	-								
GAINS and VENTILATION	Occupancy density *	O_C	person/m ²	UNI EN 16798-1 - Table A.19					
	Lighting power density *	W_L	W/m ²	UNI EN 16798-1 - A.8.3					
	Equipment power density *	W_A	W/m ²	UNI EN 16798-1 - A.8.3					
	Type of ventilation	Natural: 100%							
	Air exchange rate *	n	h ⁻¹	0.3	-	0.3	0.3	0.3	
THERMAL SYSTEMS	Heating system type	Centralized: 47%; Autonomous: 27%; Unknown 26%							
	Heating generator	Boiler (unknown type): 97%; Fireplace: 3%							
	Daily operating time of the heating system *	t_H	h	No limitation					
	Energy carrier	District heating: 50%; Electricity: 25%; Electricity from PV, wind turbines, hydraulic turbines: 25%							
	Heating emission sub-system	-							
	Cooling system type	Unknown: 99%; Air-cooled chiller: 1%							
	Daily operating time of the cooling system *	t_C	h	No limitation					
	Cooling emission sub-system	-							
	DHW system type	Centralized – coupled with heating: 35%; Autonomous – coupled with heating: 29%; Unknown: 18%; Autonomous - detached from heating: 13%; District heating: 5%							
	DHW generator	Natural gas boiler: 77%; Electric heat pump: 11%; Unknown: 7%; Electric boiler: 3%; Solar thermal: 2%							

* These values were not available in the considered sources, and are thus derived from UNI EN Standards



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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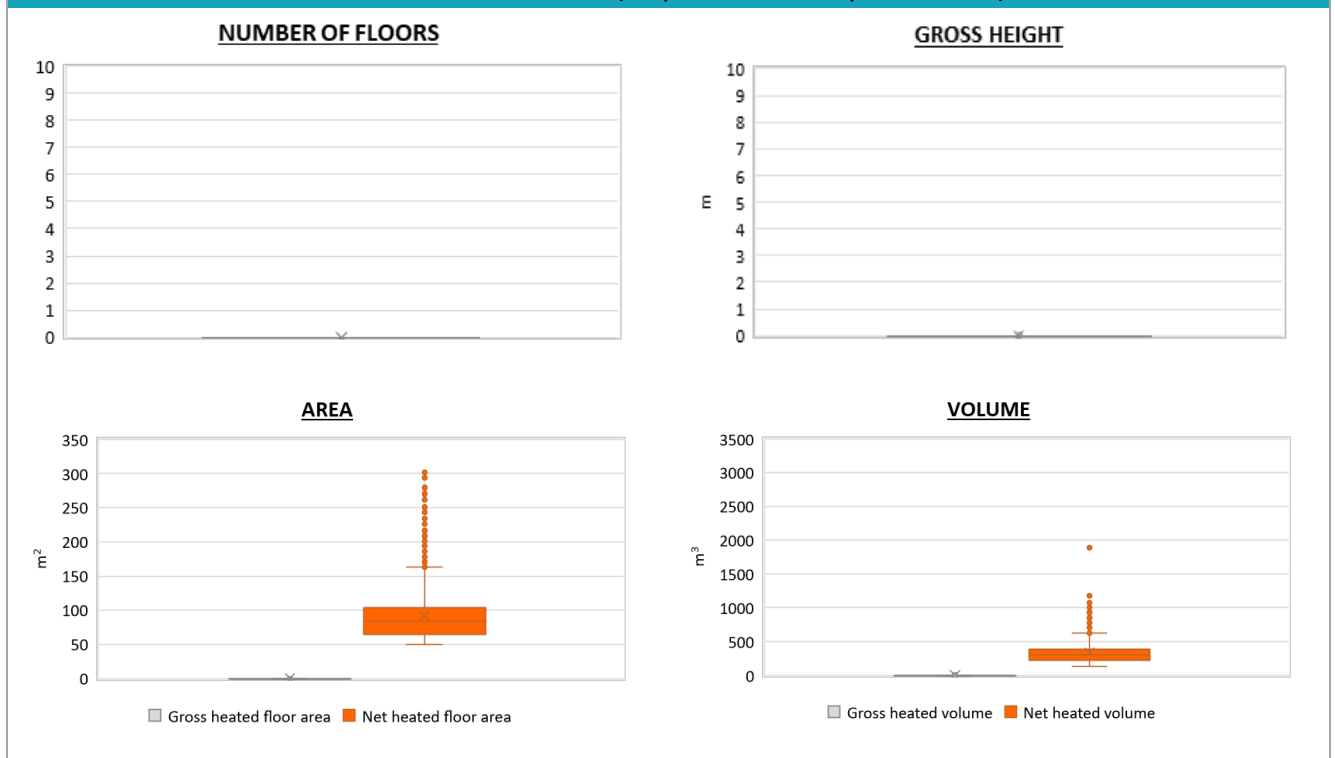
Numerical variables – GEOMETRY

Numerical variables – ENVELOPE

Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE


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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H_n	m	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m ²	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m ²	92	42	64	83	103
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	335	171	227	297	382
THERMAL SYSTEMS	Heating efficiency or <i>COP</i>	$\eta_{H,gen}$ OR $COP_{H,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power	$P_{H,gen}$	kW	90	134	25	32	95
	Cooling efficiency or <i>EER</i>	$\eta_{C,gen}$ OR $EER_{C,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	$P_{C,gen}$	kW	21	32	5	7	10
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	72	121	24	30	73

Additional data: GEOMETRY (the plots refer to the apartment scale)



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Additional data: other numerical variables that are not included in the archetype
