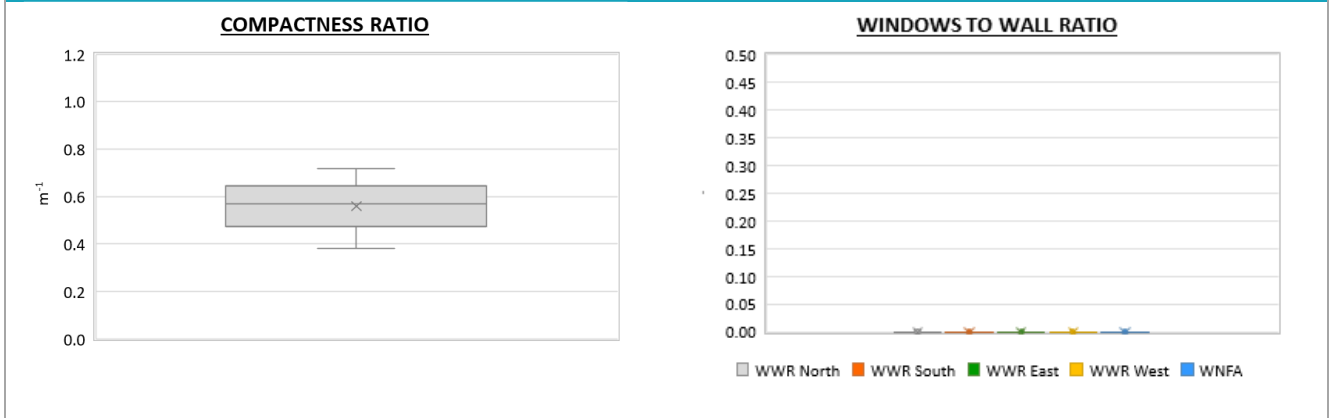
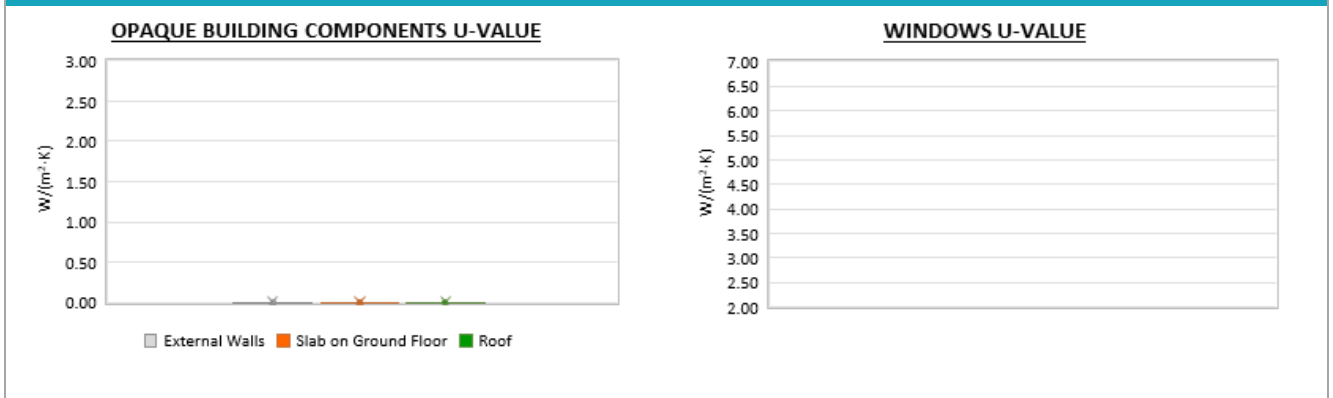
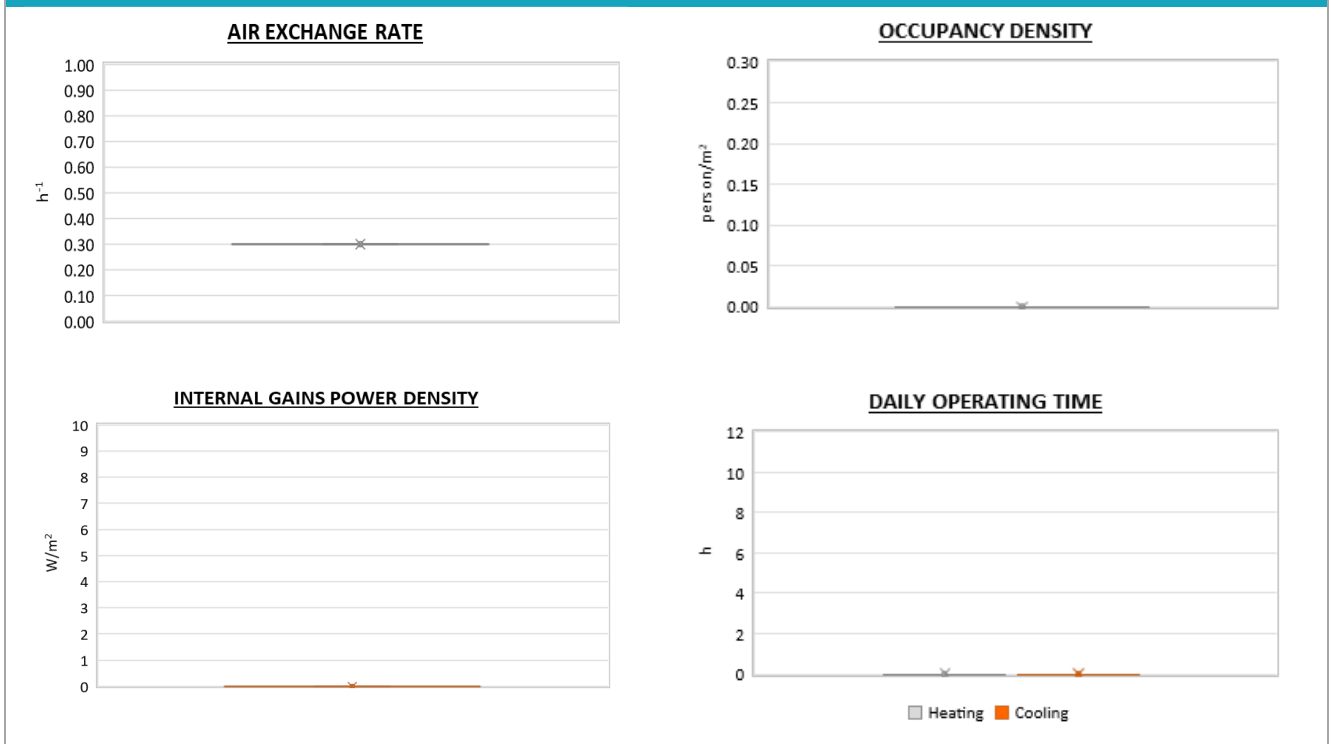


Region:		Trentino					Archetype code:		
Building category:		Residential multifamily buildings					RES_APPBLOCK_		
Period of construction:		1951-1960					1951-1960_F_TN		
Climatic zone:		F	Number of records:		1245				
Description (the codes associated with walls and slabs refer to the structures described 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	745	1357	366	392	513	
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-	
	Heated net volume	$V_{H,n}$	m ³	2876	5492	1315	1604	1857	
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.56	0.10	0.48	0.57	0.64	
	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	Autonomous: 39%; Unknown 32%; Centralized: 29%							
	Heating generator	Boiler (unknown type): 87%; Unknown: 9%; Fireplace: 3%; Heat exchanger of district heating/cooling: 1%							
	Daily operating time of the heating system *	t_H	h	No limitation					
	Energy carrier	Natural gas: 44%; Gas Oil: 33%; Solid biomass: 11%; LPG: 9%; District heating: 1% Electricity: 1%; Electricity from PV, wind turbines, hydraulic turbines: 1%							
	Heating emission sub-system	-							
	Cooling system type	Unknown: 100%							
	Daily operating time of the cooling system *	t_C	h	No limitation					
	Cooling emission sub-system	-							
	DHW system type	Autonomous – coupled with heating: 40%; Centralized – coupled with heating: 21%; Unknown: 19%; Autonomous - detached from heating: 16%; District heating: 4%							
	DHW generator	Natural gas boiler: 69%; Electric heat pump: 14%; Unknown 12%; Electric boiler: 4%; Solar thermal: 1%							
* These values were not available in the considered sources, and are thus derived from UNI EN Standards									

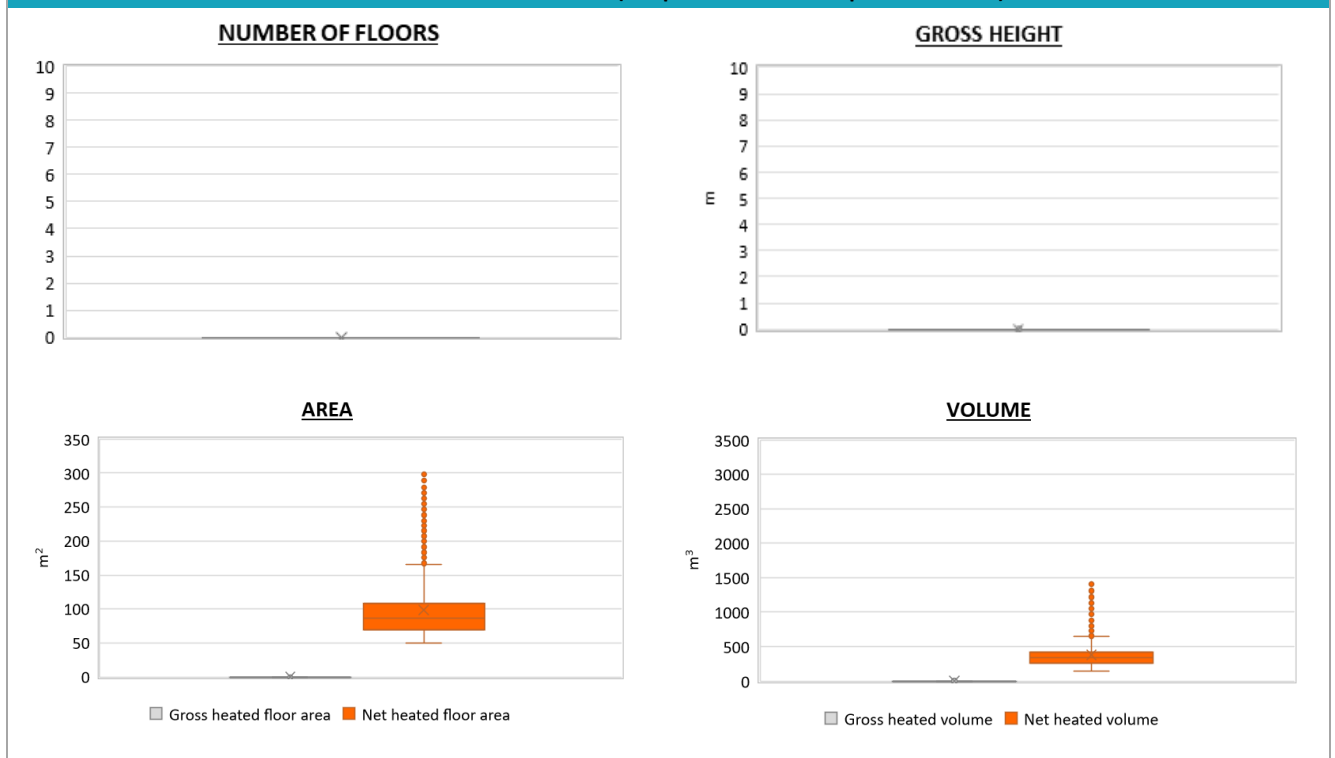
Region:	Trentino	Archetype code: RES_APPBLOCK_ 1951-1960_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1951-1960	
Climatic zone:	F	

Numerical variables – GEOMETRY

Numerical variables – ENVELOPE

Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE


Region:	Trentino	Archetype code: RES_APPBLOCK_ 1951-1960_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1951-1960	
Climatic zone:	F	

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	98	44	69	87	109
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	378	178	262	335	418
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	36	52	24	27	32
	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	16	11	10	16	21
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power *	$P_{W,gen}$	kW	28	29	22	26	31

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



Region:	Trentino	Archetype code: RES_APPBLOCK_ 1951-1960_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1951-1960	
Climatic zone:	F	

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