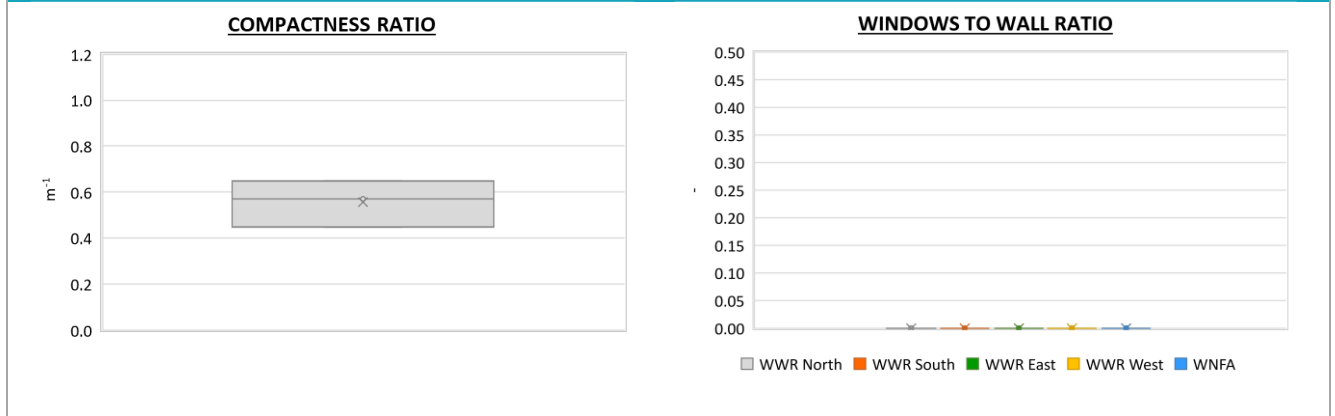


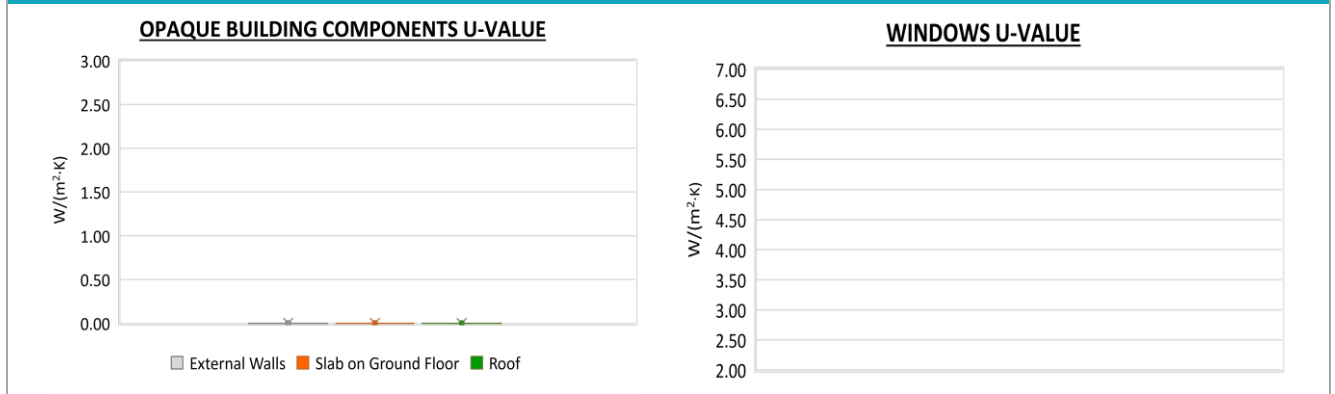
Region:	Trentino Alto Adige						Archetype code: RES_APPBLOCK_ 1931-1940_E_TN	
Building category:	Residential buildings – Apartments (in multifamily blocks)							
Period of construction:	1931-1940							
Climatic zone:	E	Number of records:				223		
Description (the codes associated with walls and slabs 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 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	645	438	336	356	809
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	2389	1398	1402	1471	2918
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.56	0.08	0.45	0.57	0.65
	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		$U_{fi;up}$	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		$U_{fi;lw}$	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	0.30	-	0.30	0.30	0.30
THERMAL SYSTEMS	Heating system type	Autonomous: 67%, Centralized: 13%, Unknown: 20%						
	Heating generator	Boiler (Unknown type): 80%, Condensing boiler: 6%, Traditional boiler: 5%, Unknown: 4%, Air source heat pump: 3%, DHC:1%, Fireplace: 1%						
	Daily operating time of the heating system *	t_H	h	14	-	14	14	14
	Energy carrier	Natural gas: 95%, LPG: 2%, Solid biomass:1%, Gas Oil: 1%, Electricity: 1%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 99%, Air-cooled chiller: 1%						
	Daily operating time of the cooling system *	t_C	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 61%, Unknown: 23% Autonomous - detached from heating: 10%, Centralized – coupled with heating: 5%, DHC: 1%						
	DHW generator	Natural gas boiler: 66%, Unknown: 24%, Electric Heat Pump: 9%, Electric boiler: 1%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

Region:	Trentino Alto Adige	Archetype code: RES_APPBLOCK_ 1931-1940_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1931-1940	
Climatic zone:	E	
Number of records: 223		

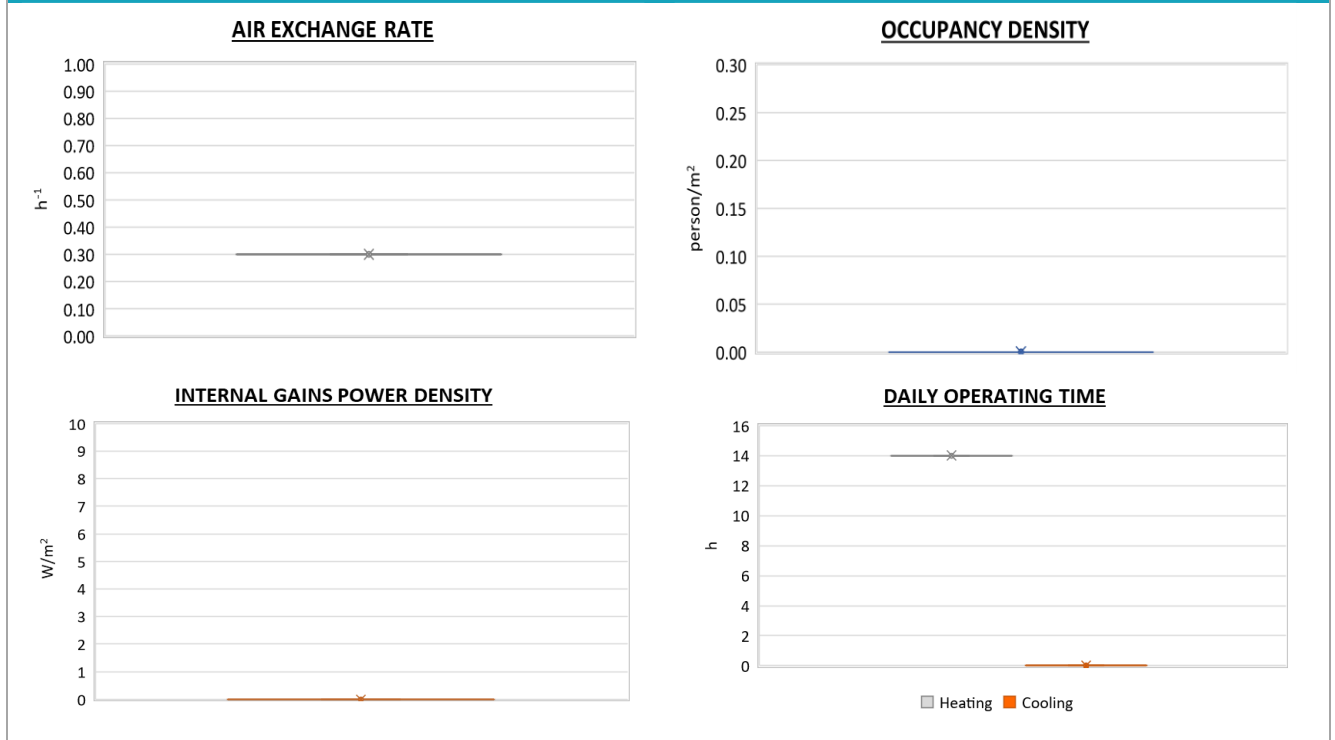
Numerical variables – GEOMETRY



Numerical variables – ENVELOPE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

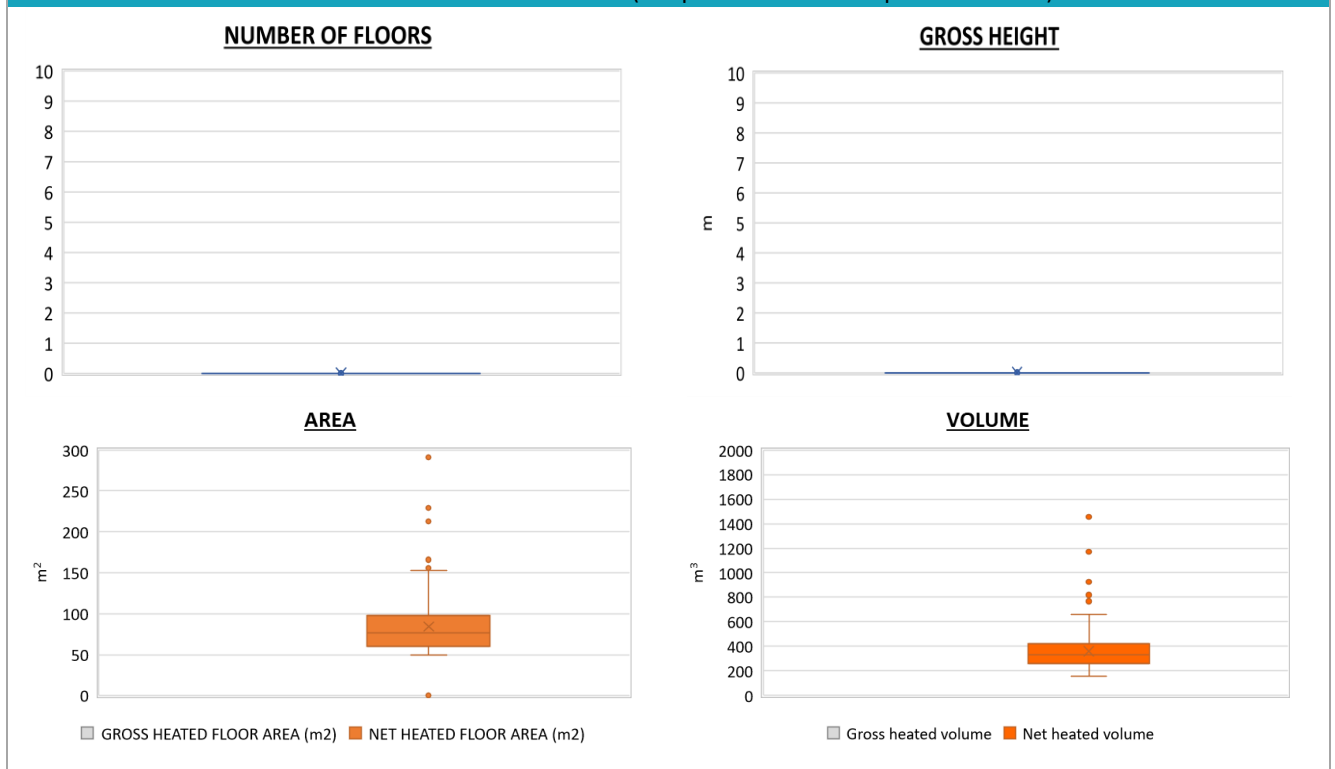


Region:	Trentino Alto Adige			Archetype code: RES_APPBLOCK_ 1931-1940_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)			
Period of construction:	1931-1940			
Climatic zone:	E	Number of records:	223	

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	86	35	62	76	98
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	360	153	258	332	422
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	29	20	24	25	29
	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	24	30	7	8	25
	Temperature of DHW	ϑ_w	°C	40	-	40	40	40
	DHW system power *	$P_{W,gen}$	kW	29	20	24	25	29

* These values refer to the apartment scale

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



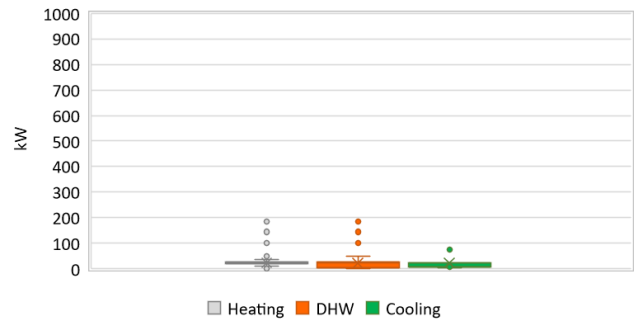
Region:	Trentino Alto Adige	Archetype code: RES_APPBLOCK_ 1931-1940_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1931-1940	
Climatic zone:	E	
Number of records: 223		

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

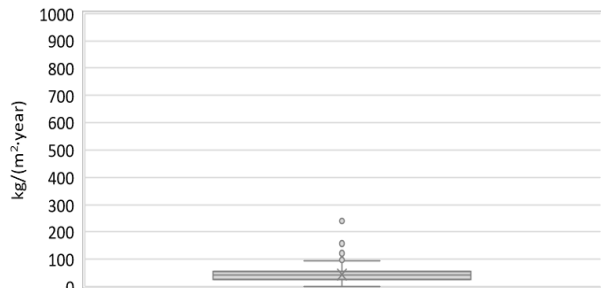
DHW SUPPLY TEMPERATURE



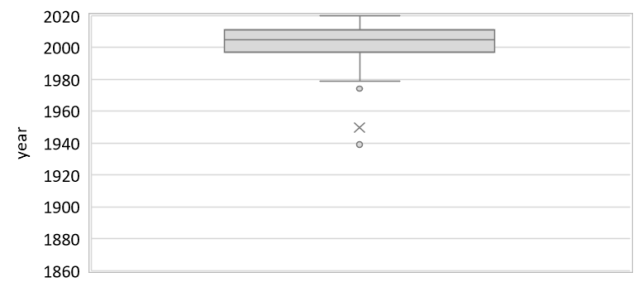
SYSTEM POWER



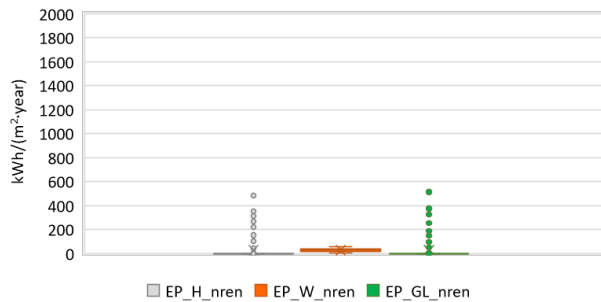
CO₂ EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

