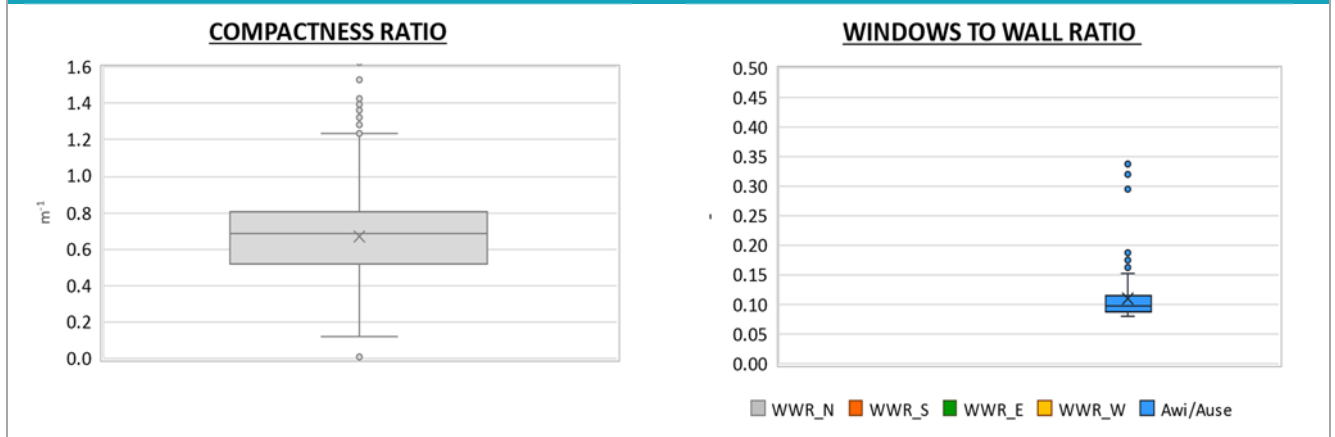


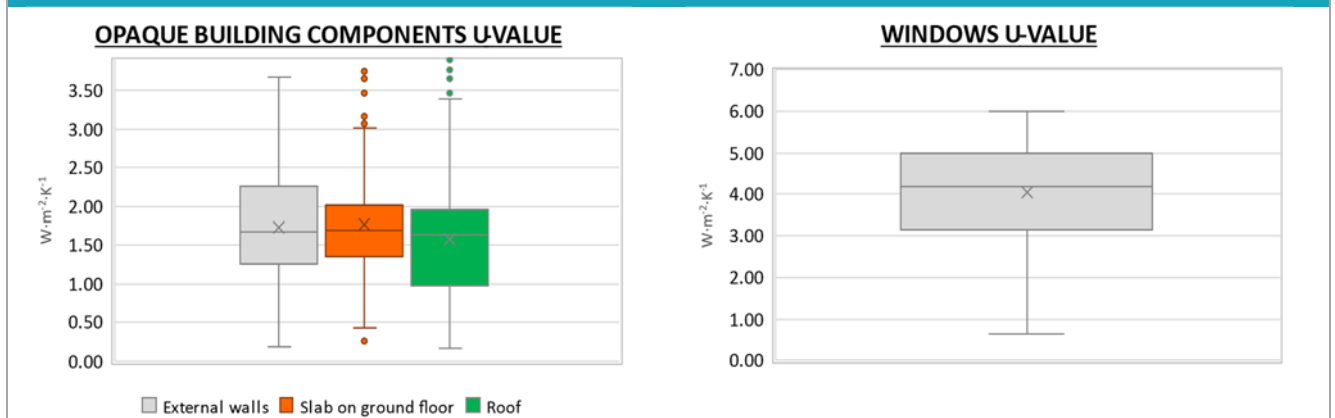
Region:	Liguria					Archetype code: RES_APPBLOCK_ -1950_E_LIG			
Building category:	Residential buildings – Apartments in multi-family block								
Period of construction:	-1950								
Climatic zone:	E	Number of records:	2177						
Description: <u>External walls</u> : no data available <u>Roof slabs</u> : no data available							Data sources: EPC databases (100%)		
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (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	-	-	-	-	-	
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-	
	Heated net volume	$V_{H;n}$	m ³	-	-	-	-	-	
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.67	0.22	0.52	0.69	0.80	
	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	$A_{\text{wi}}/A_{\text{use}}$	-	0.11	0.04	0.09	0.10	0.12	
	ENVELOPE	Roof type	-						
U-value of the roof		$U_{\text{fi,up}}$	W/(m ² ·K)	1.58	0.89	0.99	1.64	1.96	
External walls type		-							
U-value of the wall		U_{wi}	W/(m ² ·K)	1.74	0.63	1.26	1.67	2.27	
Slab on ground floor type		-							
U-value of the floor		$U_{\text{fi,lw}}$	W/(m ² ·K)	1.77	0.64	1.36	1.69	2.02	
Windows type		-							
U-value of the windows		U_W	W/(m ² ·K)	4.05	1.21	3.16	4.17	5.00	
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	0.00	0.30	0.30	0.30	
THERMAL SYSTEMS	Heating system type	Unknown: 96%; Autonomous: 4%							
	Heating generator	Unknown: 53%; Traditional boiler: 33%; Condensing boiler: 7%; Fireplace: 6%; Air-source heat pump: 1%							
	Daily operating time of the heating system *	t_H	h	14	0	14	14	14	
	Energy carrier	Unknown: 53%; Natural gas: 22%; Electricity and natural gas: 13%; Electricity and solid biomass: 5%; LPG: 3%; Solid biomass: 2%; Gas Oil: 1%; Electricity: 1%							
	Heating emission sub-system	Unknown: 50%; Radiators: 42%; Air Ducts: 3%; Radiant panels: 2%; Convectors: 1%; Fan-coil: 1%; Air Heater: 1%							
	Cooling system type	Unknown: 99%; Heat pump air-air: 1%							
	Daily operating time of the cooling system *	t_C	h	-	-	-	-	-	
	Cooling emission sub-system	-							
	DHW system type	-							
	DHW generator	Unknown: 73%; Electric boiler: 13%; Condensing boiler: 8%; Natural gas boiler: 4%; Electric heat pump: 2%							
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

Region:	Liguria	Archetype code: RES_APPBLOCK_ -1950_E_LIG
Building category:	Residential buildings – Apartments in multi-family block	
Period of construction:	-1950	
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Number of records:		2177

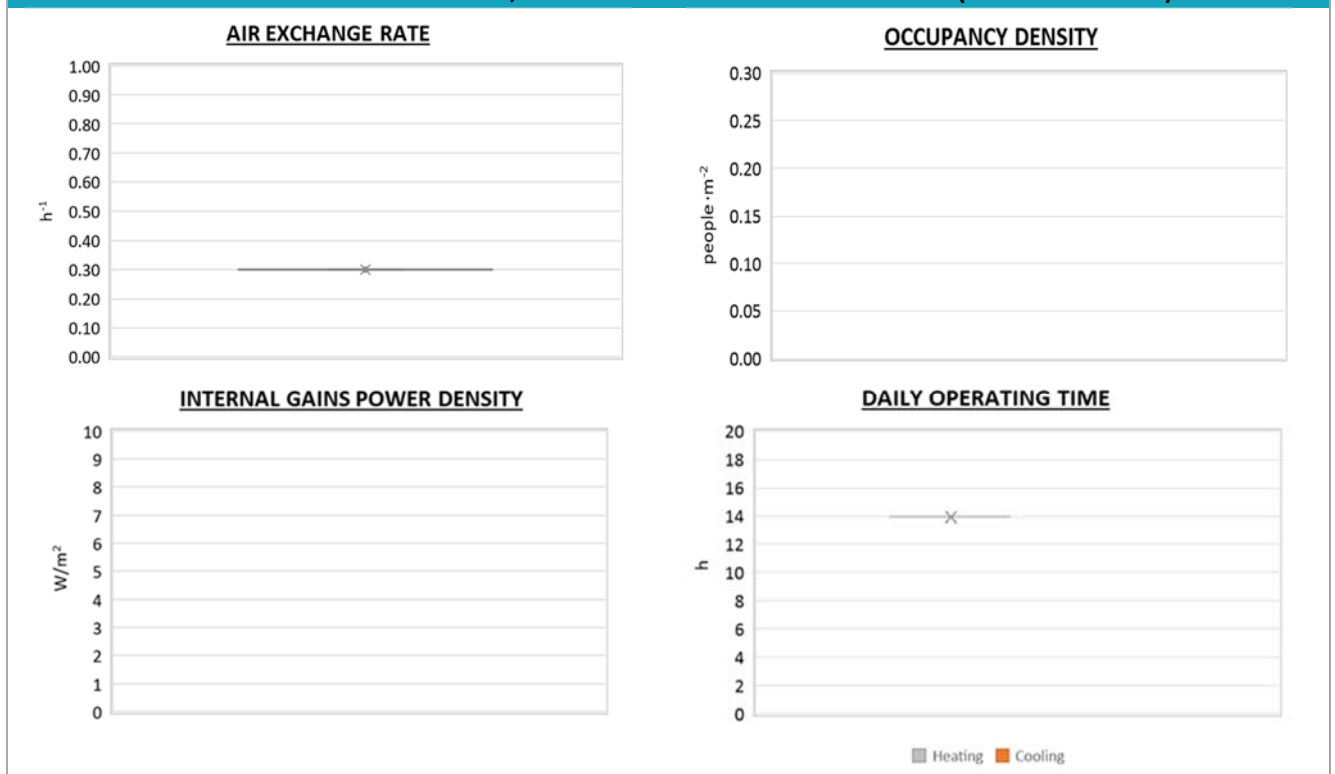
Numerical variables – GEOMETRY



Numerical variables – ENVELOPE



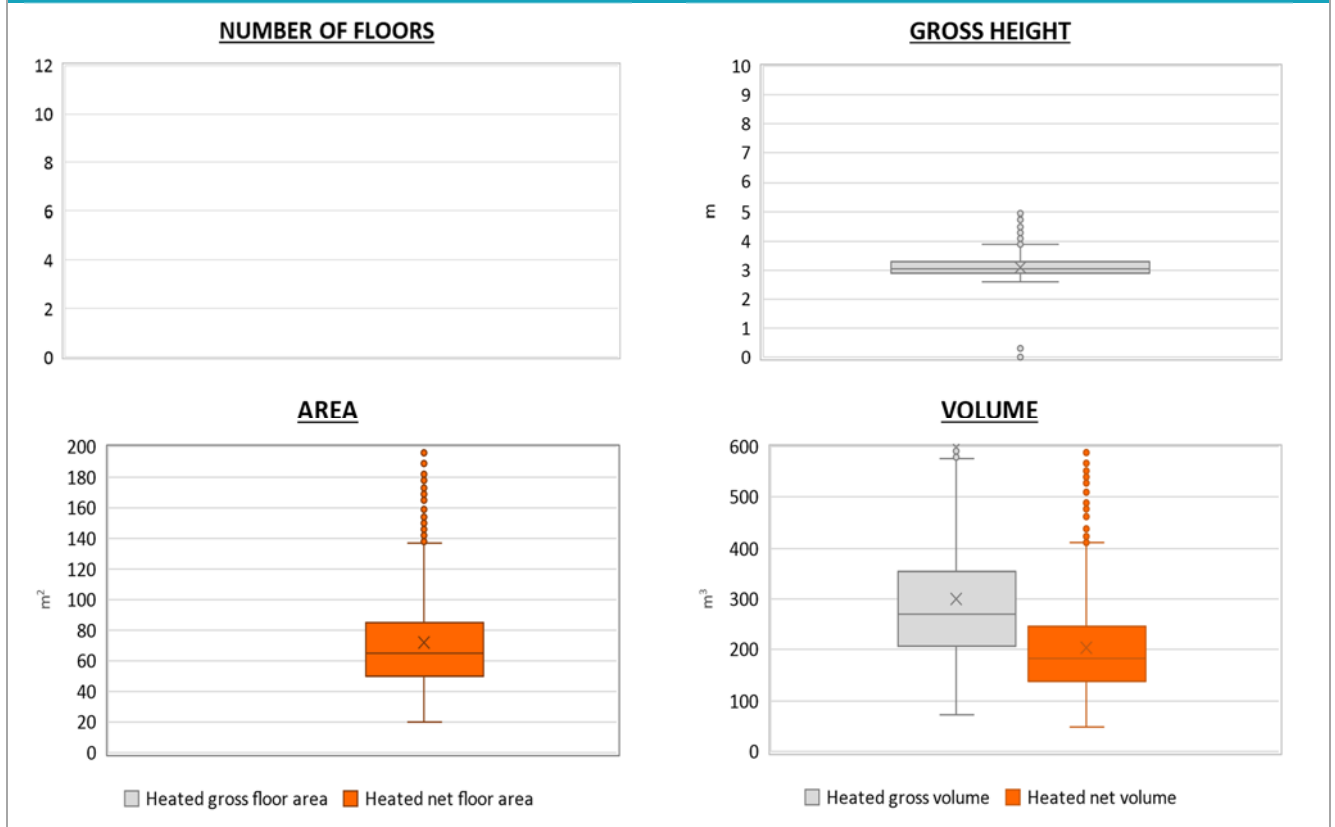
Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE (Standard Values)



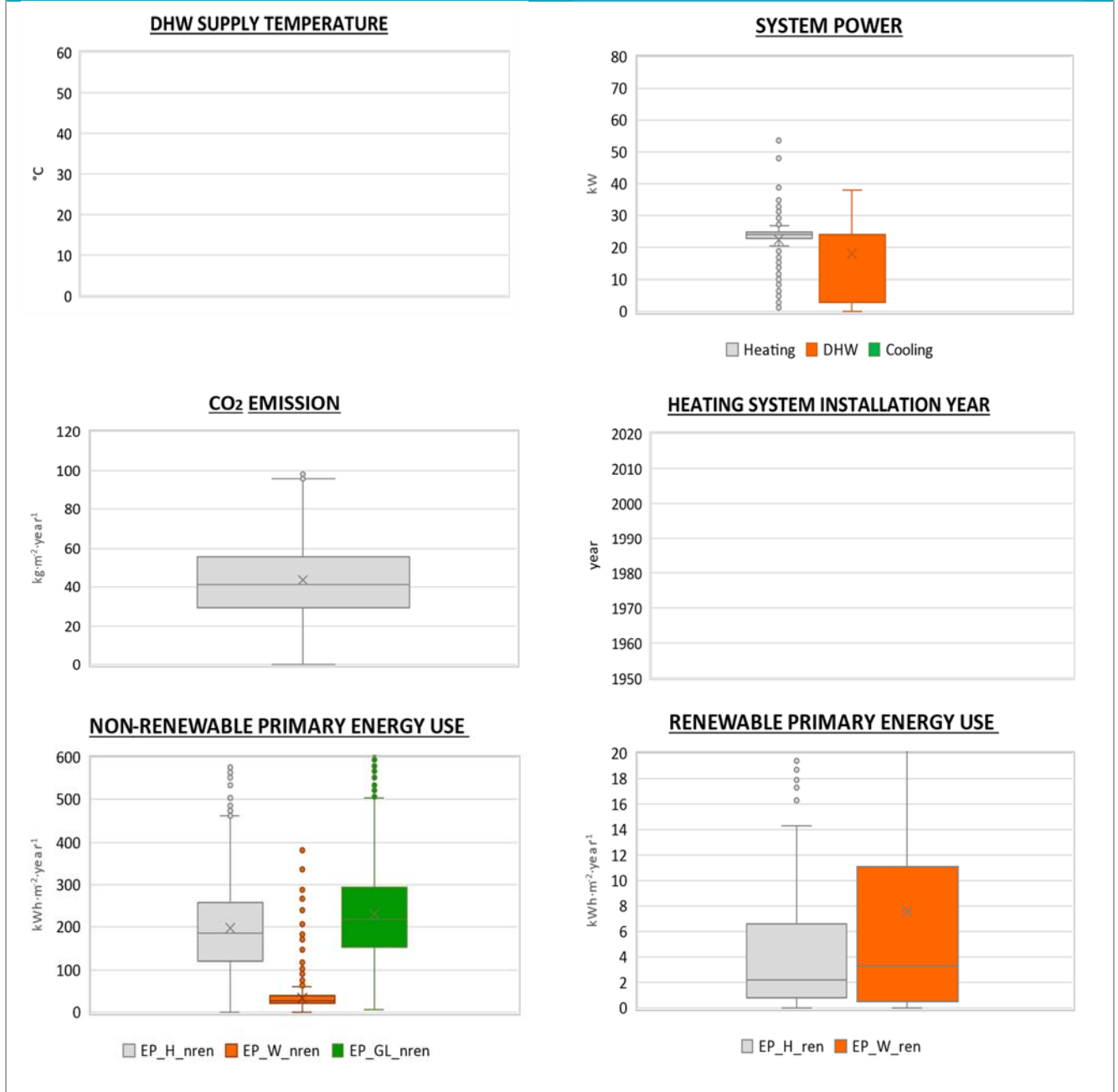
Region:	Liguria	Archetype code: RES_APPBLOCK_ -1950_E_LIG
Building category:	Residential buildings – Apartments in multi-family block	
Period of construction:	-1950	
Climatic zone:	E	
Number of records:		2177

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	3.1	0.3	2.9	3.1	3.3
	Heated gross floor area	$A_{H,g}$	m ²					
	Heated net floor area	$A_{H,n}$	m ²	71.8	35.6	50.0	65.2	85.0
	Heated gross volume	$V_{H,g}$	m ³	300.1	157.5	206.0	269.1	355.1
	Heated net volume	$V_{H,n}$	m ³	204.4	111.3	137.1	183.3	246.8
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{H,gen}$ OR $COP_{H,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	$P_{H,gen}$	kW	22.3	6.9	23.0	24.0	24.6
	Cooling efficiency or EER	$\eta_{C,gen}$ OR $EER_{C,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	$P_{C,gen}$	kW	-	-	-	-	-
	Temperature of DHW	θ_W	°C	-	-	-	-	-
	DHW system power *	$P_{W,gen}$	kW	18.2	10.4	2.9	24.0	24.0
	* These values refer to the apartment scale							

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



Region:	Liguria	Archetype code: RES_APPBLOCK_ -1950_E_LIG
Building category:	Residential buildings – Apartments in multi-family block	
Period of construction:	-1950	
Climatic zone:	E	
Number of records:		2177

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


NOTE: Sample size of the analysed data.

Compactness ratio: 2165; Window to useful floor area ratio: 166; U-value of the roof: 449; U-value of the wall: 1955; U-value of the floor: 198; U-value of the windows: 2177; Inter-storey height: 2175; Heated net floor area: 2175; Heated gross volume: 2165; Heated net volume: 2165; Total heating power: 806; DHW system power: 1282; CO₂ Emission: 2069; EP_H_nren: 2169; EP_W_nren: 2058; EP_GL_nren: 2161; EP_H_ren: 1238; EP_W_ren: 1187