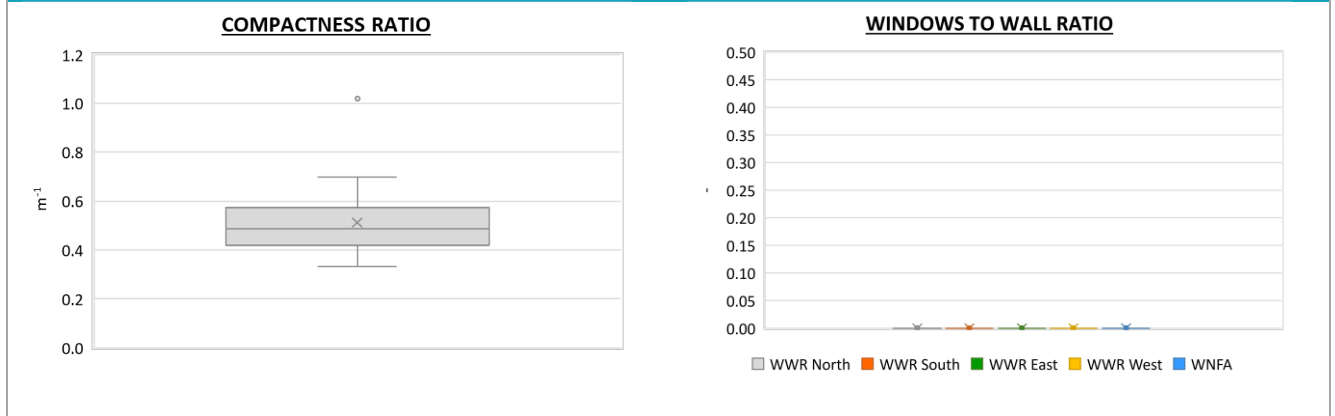


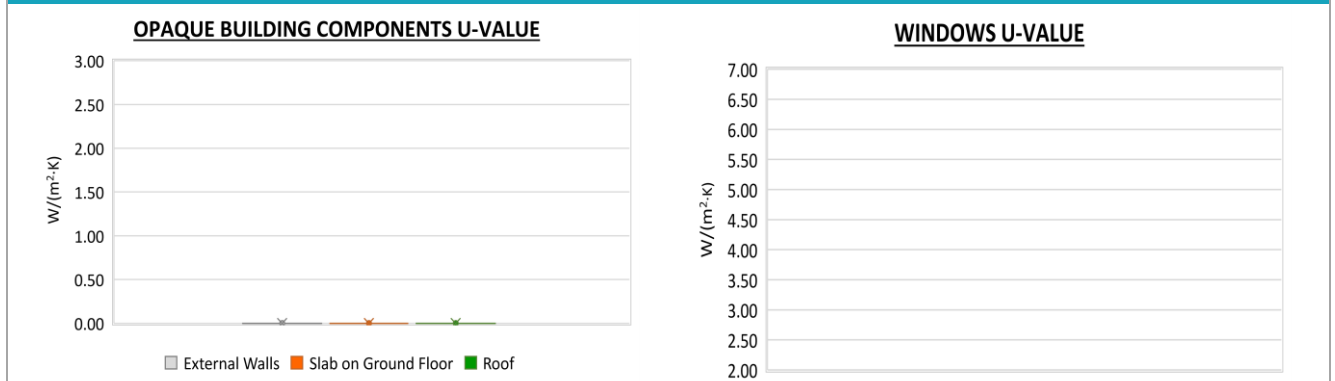
Region:	Trentino Alto Adige						Archetype code: RES_APPBLOCK_ 1951-1960_E_TN	
Building category:	Residential buildings – Apartments (in multifamily blocks)							
Period of construction:	1951-1960							
Climatic zone:	E	Number of records:		1868				
Description (the codes associated with walls and slabs 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 <sup>2</sup>	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m <sup>2</sup>	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m <sup>2</sup>	1090	1052	420	647	1334
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	4268	3949	1692	3636	5069
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m <sup>-1</sup>	0.51	0.14	0.42	0.49	0.57
	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	$A_{wi}/A_{\text{use}}$	-	-	-	-	-	-
	ENVELOPE	Roof type	-					
U-value of the roof		$U_{\text{fi;up}}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
External walls type		-						
U-value of the wall		$U_{\text{wl}}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
Slab on ground floor type		-						
U-value of the floor		$U_{\text{fi;lw}}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
Windows type		-						
U-value of the windows		$U_{\text{W}}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
Shading system type		-						
GAINS and VENTILATION	Occupancy density *	$O_{\text{C}}$	person/m <sup>2</sup>	UNI EN 16798-1 - Table A.19				
	Lighting power density *	$W_{\text{L}}$	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3				
	Equipment power density *	$W_{\text{A}}$	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3				
	Type of ventilation	Natural: 100%						
	Air exchange rate *	$n$	h <sup>-1</sup>	0.30	-	0.30	0.30	0.30
THERMAL SYSTEMS	Heating system type	Autonomous: 49%, Centralized: 30%, Unknown: 21%						
	Heating generator	Boiler (unknown type): 80%, Condensing boiler: 9%, Traditional boiler: 6%, DHC: 4% Air source heat pump: 1%						
	Daily operating time of the heating system *	$t_{\text{H}}$	h	14	-	14	14	14
	Energy carrier	Natural gas: 97%, Gas Oil: 1%, DHC: 1%, LPG: 1%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 98% Air-cooled chiller: 2%						
	Daily operating time of the cooling system *	$t_{\text{C}}$	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 56%, Autonomous - detached from heating: 19%, Unknown: 14%, Centralized – coupled with heating: 10%, District heating: 1%						
	DHW generator	Natural gas boiler: 68%, Electric Heat Pump: 15%, Unknown: 14%, Electric boiler: 3%						
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards							

<b>Region:</b>	Trentino Alto Adige	<b>Archetype code:</b> RES_APPBLOCK_ 1951-1960_E_TN
<b>Building category:</b>	Residential buildings – Apartments (in multifamily blocks)	
<b>Period of construction:</b>	1951-1960	
<b>Climatic zone:</b>	E	
<b>Number of records:</b> 1868		

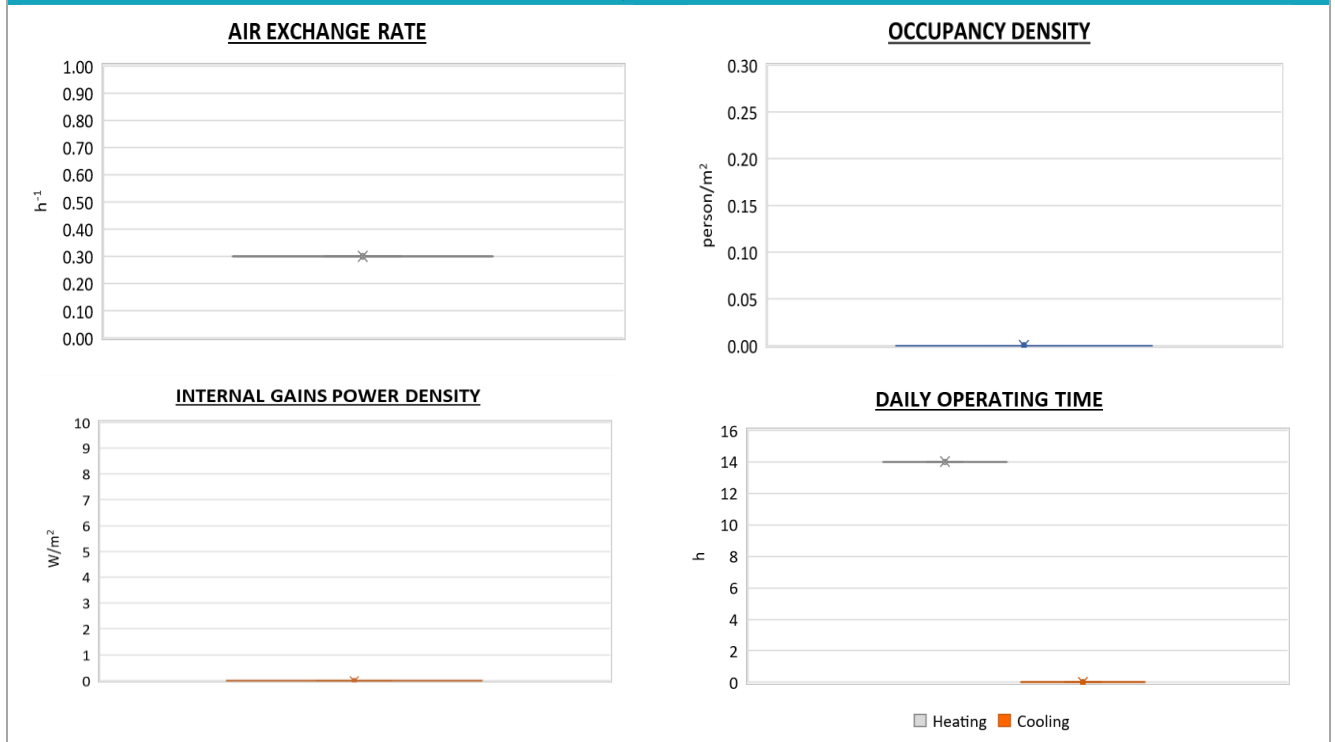
### Numerical variables – GEOMETRY



### Numerical variables – ENVELOPE



### Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

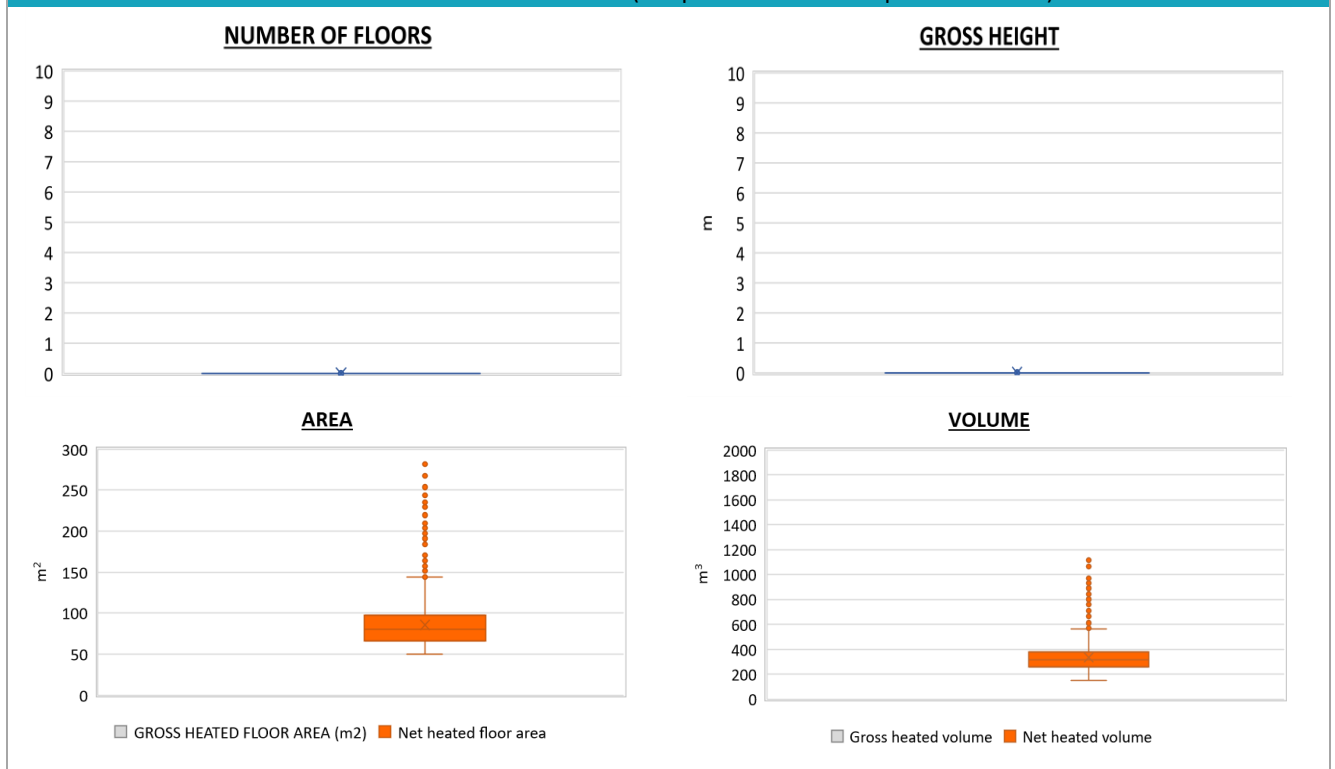


Region:	Trentino Alto Adige			Archetype code: RES_APPBLOCK_ 1951-1960_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)			
Period of construction:	1951-1960			
Climatic zone:	E	Number of records:	1868	

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 <sup>2</sup>	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m <sup>2</sup>	86	29	66	80	97
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	334	114	258	312	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	59	119	24	26	31
	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	43	218	3	5	7
	Temperature of DHW	$\vartheta_w$	°C	40	-	40	40	40
	DHW system power *	$P_{W,gen}$	kW	48	108	20	24	29

\* These values refer to the apartment scale

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



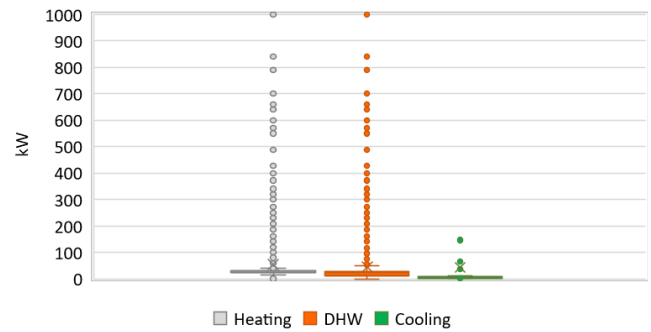
<b>Region:</b>	Trentino Alto Adige	<b>Archetype code:</b> RES_APPBLOCK_ 1951-1960_E_TN
<b>Building category:</b>	Residential buildings – Apartments (in multifamily blocks)	
<b>Period of construction:</b>	1951-1960	
<b>Climatic zone:</b>	E	
<b>Number of records:</b> 1868		

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

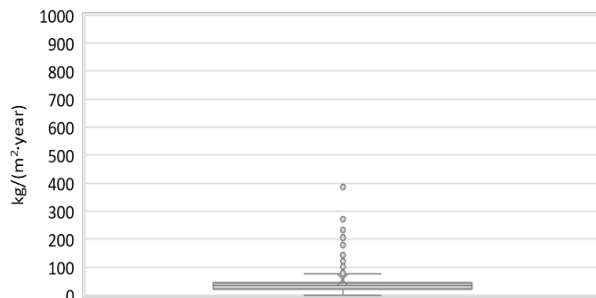
**DHW SUPPLY TEMPERATURE**



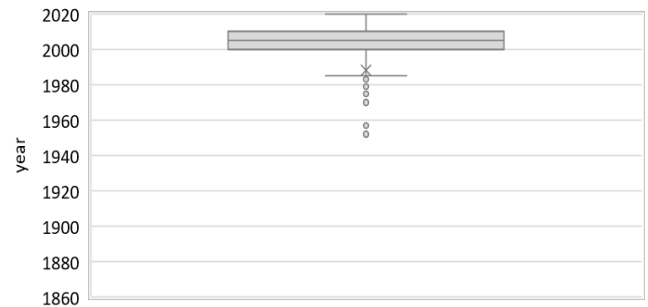
**SYSTEM POWER**



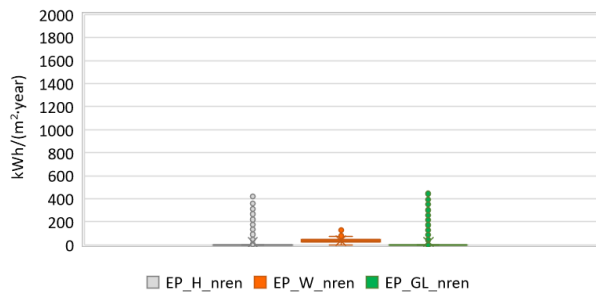
**CO<sub>2</sub> EMISSION**



**HEATING SYSTEM INSTALLATION YEAR**



**NON-RENEWABLE PRIMARY ENERGY USE**



**RENEWABLE PRIMARY ENERGY USE**

