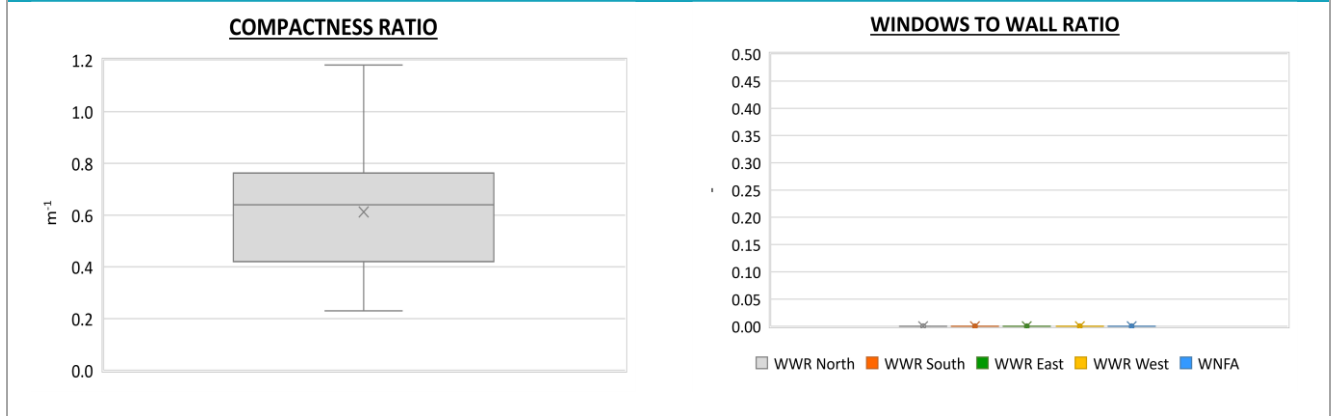


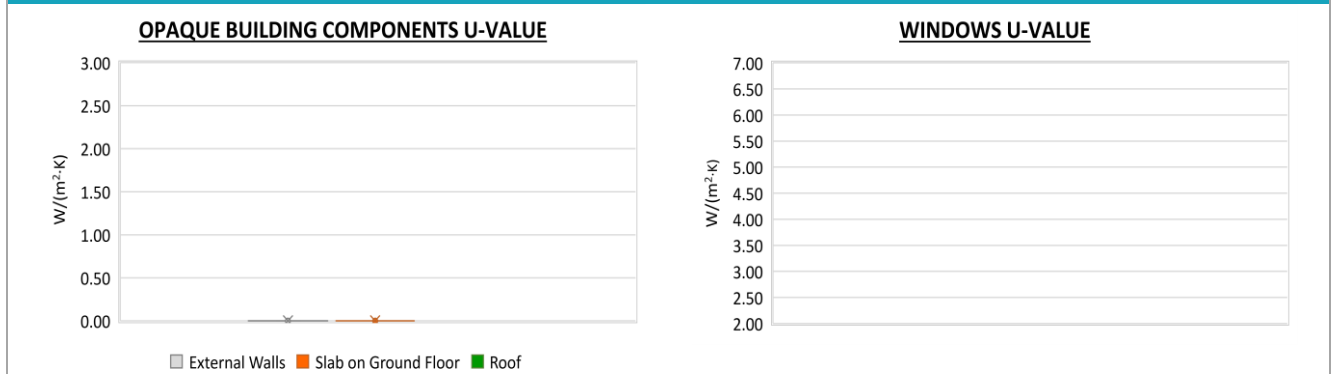
Region:	Trentino Alto Adige						Archetype code: RES_SINGLE_ 1931-1940_E_TN	
Building category:	Residential buildings-Single family							
Period of construction:	1931-1940							
Climatic zone:	E	Number of records:				147		
Description (the codes associated with walls and slabs refer to the structures 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>	132	41	90	102	132
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	545	249	368	422	535
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m <sup>-1</sup>	0.59	0.20	0.41	0.62	0.76
	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	$U_{fi;up}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	External walls type	-						
	U-value of the wall	$U_{wl}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	Slab on ground floor type	-						
	U-value of the floor	$U_{fi;lw}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	Windows type	-						
	U-value of the windows	$U_W$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
Shading system type	-							
GAINS and VENTILATION	Occupancy density *	$O_c$	person/m <sup>2</sup>	UNI EN 16798-1 - Table A.19				
	Lighting power density *	$W_L$	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3				
	Equipment power density *	$W_A$	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	Unknown: 77%, Autonomous: 19%, Centralized: 4%						
	Heating generator	Traditional boiler: 42%, Boiler (Unknown): 23%, Condensing boiler: 22%, Unknown: 10%, Air source heat pump: 1%, DHC: 1%, Water-source heat pump: 1%						
	Daily operating time of the heating system *	$t_H$	h	14	-	14	14	14
	Energy carrier	Natural gas: 86%, Gas Oil: 5%, Solid biomass:4%, Electricity: 3%, District heating: 1%, LPG: 1%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 95%, Absorption chiller: 5%						
	Daily operating time of the cooling system *	$t_C$	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Unknown: 51%, Autonomous - coupled with heating: 31%, Autonomous - detached from heating: 14%, Centralized - coupled with heating: 3%, District heating: 1%						
	DHW generator	Unknown: 51%, Natural gas boiler: 35%, Electric boiler: 10%, Electric Heat Pump: 4%						
* 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_SINGLE_ 1931-1940_E_TN
<b>Building category:</b>	Residential buildings-Single family	
<b>Period of construction:</b>	1931-1940	
<b>Climatic zone:</b>	E	
<b>Number of records:</b>		147

### Numerical variables – GEOMETRY



### Numerical variables – ENVELOPE



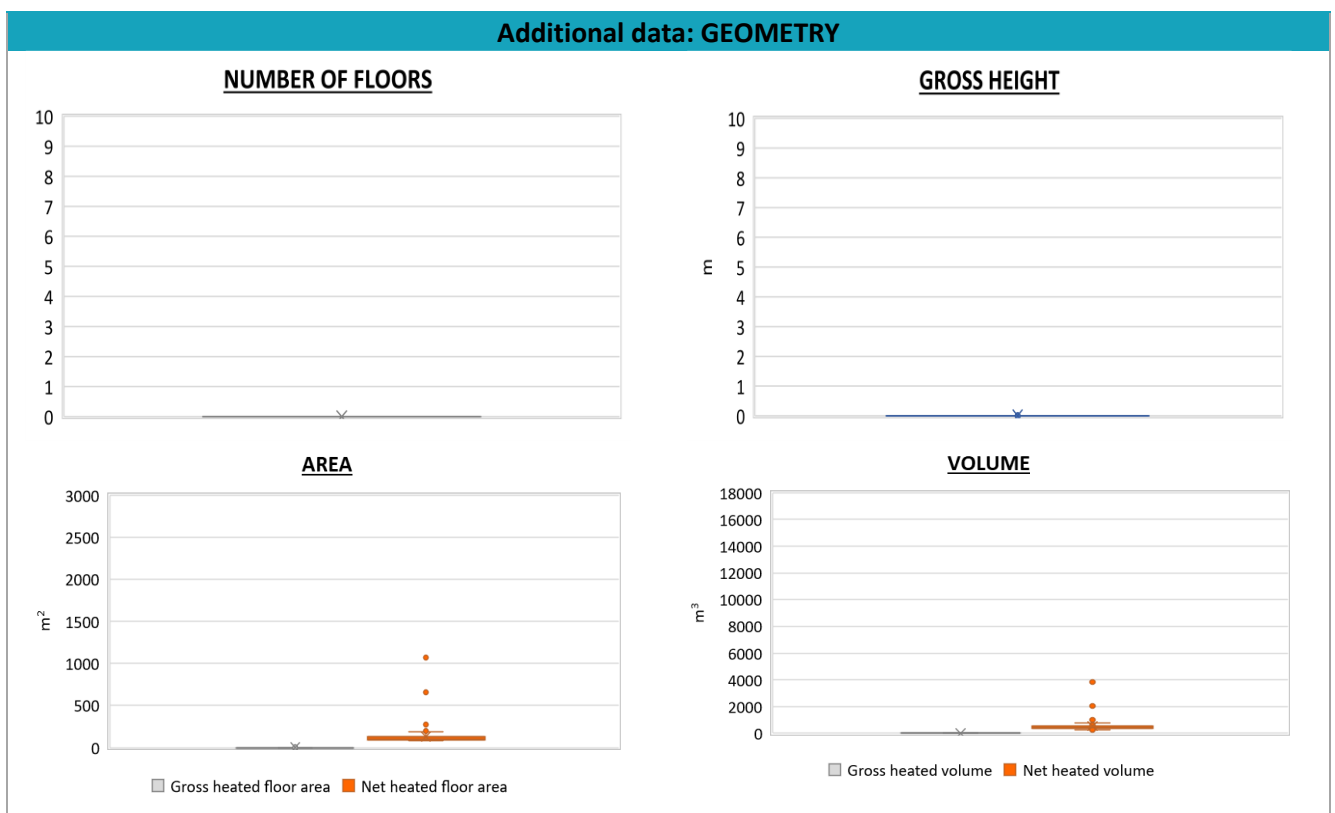
### Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



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.

Region:	Trentino Alto Adige			Archetype code: RES_SINGLE_ 1931-1940_E_TN
Building category:	Residential buildings-Single family			
Period of construction:	1931-1940			
Climatic zone:	E	Number of records:	147	

ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
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	28	4	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	11	18	6	9	19
	Temperature of DHW	$\vartheta_W$	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	28	4	24	25	29



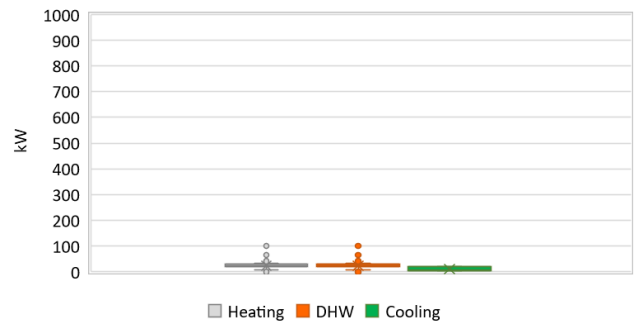
<b>Region:</b>	Trentino Alto Adige	<b>Archetype code:</b> RES_SINGLE_ 1931-1940_E_TN
<b>Building category:</b>	Residential buildings-Single family	
<b>Period of construction:</b>	1931-1940	
<b>Climatic zone:</b>	E	
<b>Number of records:</b>		147

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

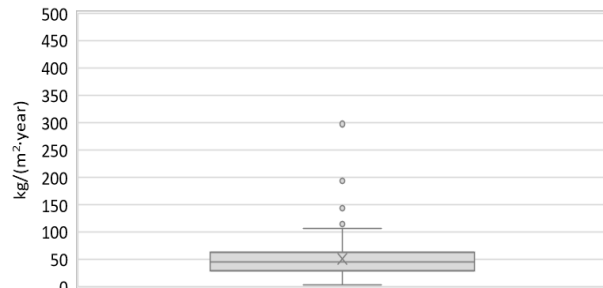
**DHW SUPPLY TEMPERATURE**



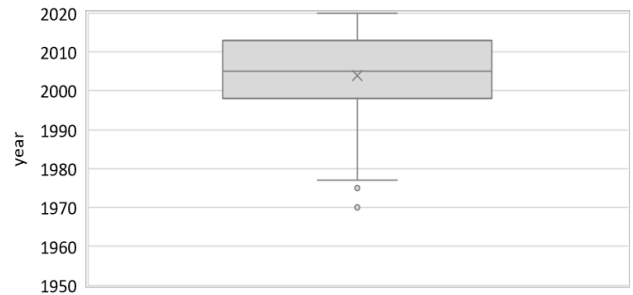
**SYSTEM POWER**



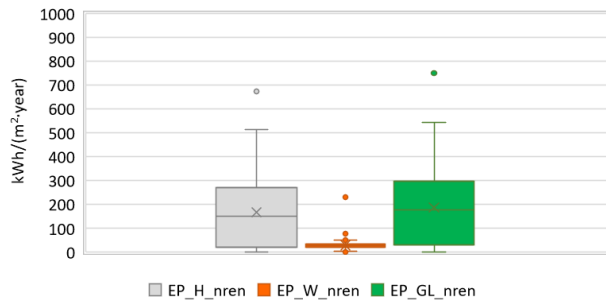
**CO<sub>2</sub> EMISSION**



**HEATING SYSTEM INSTALLATION YEAR**



**NON-RENEWABLE PRIMARY ENERGY USE**



**RENEWABLE PRIMARY ENERGY USE**

