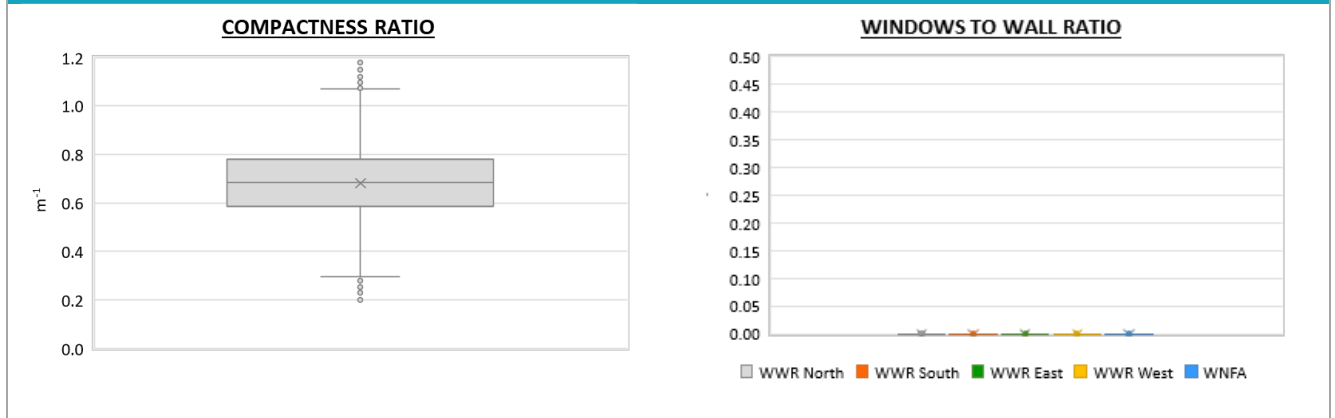


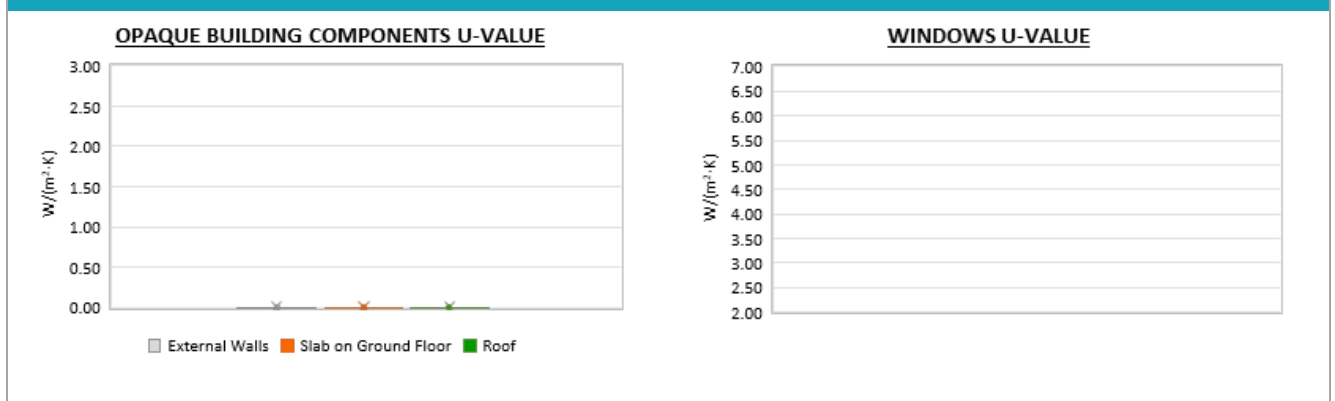
Region:	Trentino						Archetype code: RES_SINGLE_ 2011-_F_TN	
Building category:	Residential single buildings							
Period of construction:	>2011							
Climatic zone:	F	Number of records:				2823		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: no data available Roof slabs: no data available							Data sources: EPC databases (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>	150	166	76	109	160
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	611	680	306	448	671
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m <sup>-1</sup>	0.68	0.17	0.59	0.69	0.78
	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				
	Lighting power density *	$W_L$	W/m <sup>2</sup>	UNI EN 16798-1				
	Equipment power density *	$W_A$	W/m <sup>2</sup>	UNI EN 16798-1				
	Type of ventilation	Natural: 100%						
	Air exchange rate *	$n$	h <sup>-1</sup>	0.3	-	0.3	0.3	0.3
THERMAL SYSTEMS	Heating system type	Unknown 56%; Autonomous: 27; %Centralized: 17%						
	Heating generator	Boiler (unknown type): 88%; Air-source heat pump: 10%; Fireplace: 2%						
	Daily operating time of the heating system *	$t_H$	h	No limitation				
	Energy carrier	Electricity: 83%; Electricity from PV, wind turbines, hydraulic turbines: 9%; District heating: 8%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 97%; Air-cooled chiller: 3%						
	Daily operating time of the cooling system *	$t_C$	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 48%; Autonomous - detached from heating: 19%; Unknown: 19%; Centralized – coupled with heating: 12%; District heating: 2%						
	DHW generator	Natural gas boiler: 60%; Electric Heat Pump: 22%; Unknown 11%; Electric boiler: 4%; Solar thermal: 3%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

Region:	Trentino	Archetype code: RES_SINGLE_ 2011-_F_TN
Building category:	Residential single buildings	
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Number of records:		2823

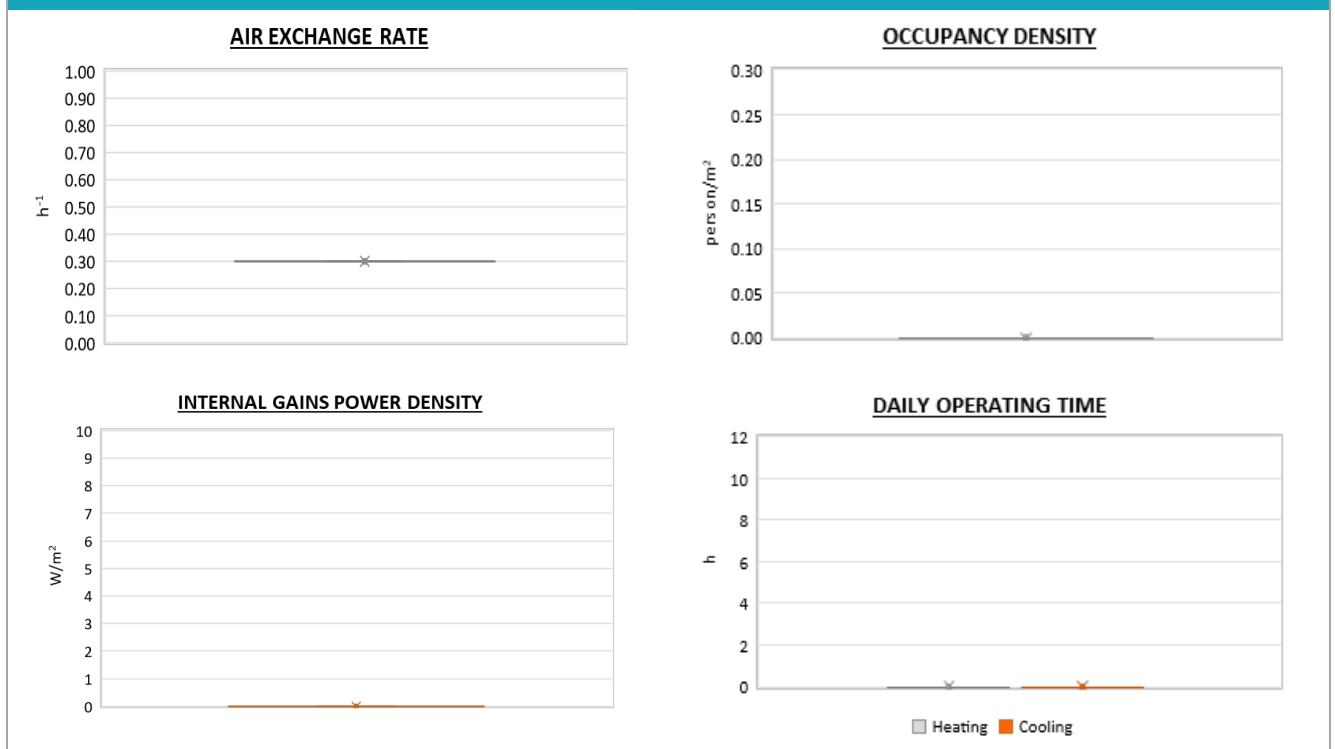
### Numerical variables – GEOMETRY



### Numerical variables – ENVELOPE



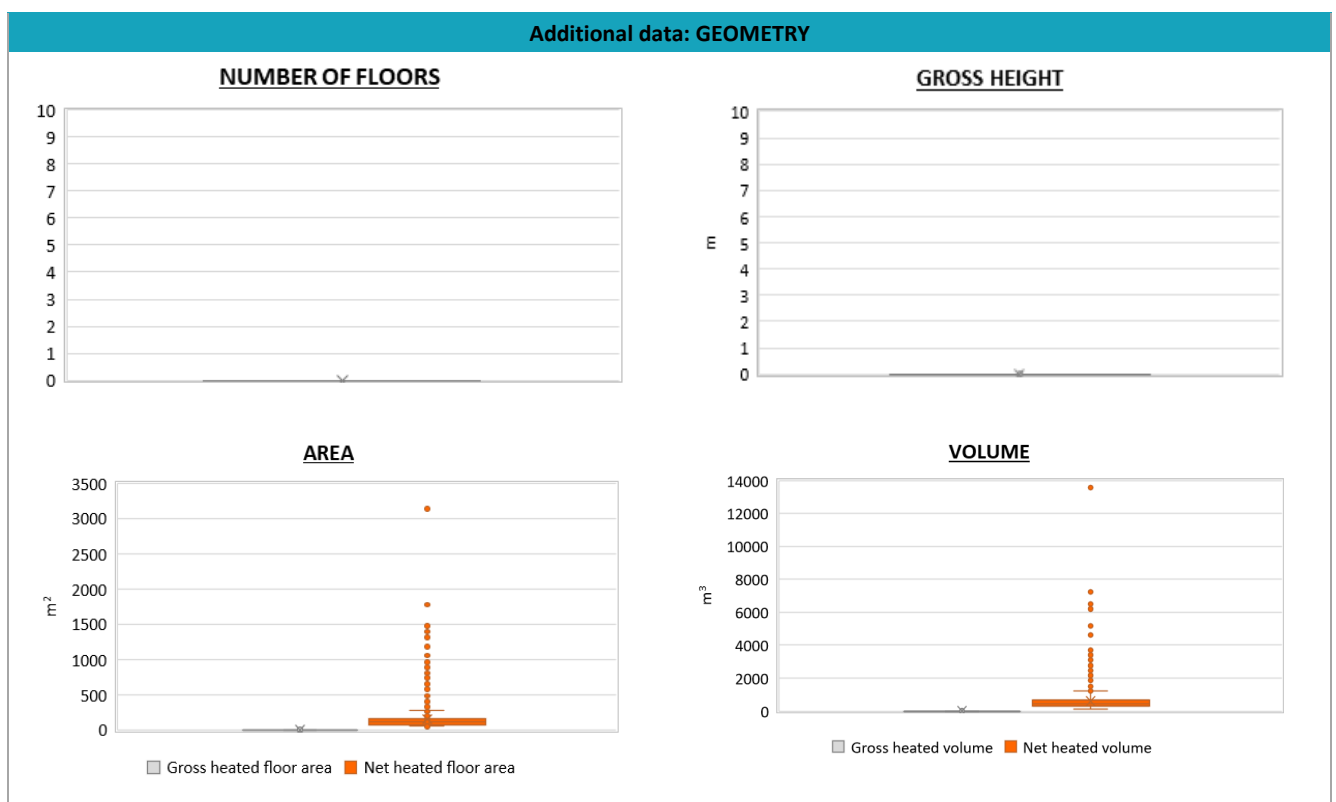
### Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



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	Archetype code: RES_SINGLE_ 2011-_F_TN
Building category:	Residential single buildings	
Period of construction:	>2011	
Climatic zone:	F	
Number of records:		2823

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	38	401	19	24	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	19	6	10	14
	Temperature of DHW	$\vartheta_W$	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	42	245	18	24	32



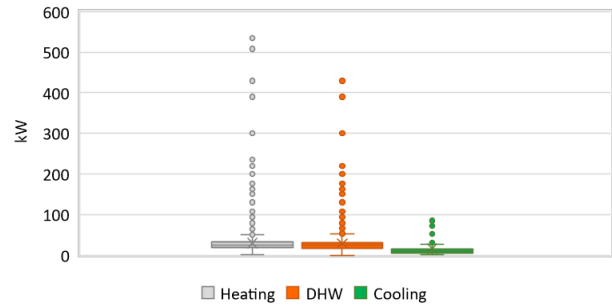
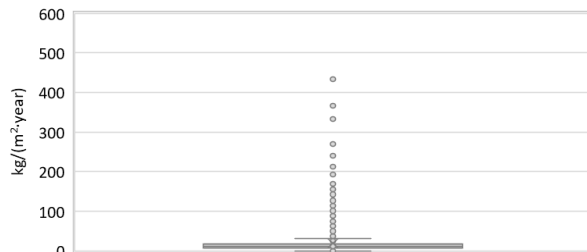
<b>Region:</b>	Trentino	<b>Archetype code:</b> RES_SINGLE_ 2011-_F_TN
<b>Building category:</b>	Residential single buildings	
<b>Period of construction:</b>	>2011	
<b>Climatic zone:</b>	F	
<b>Number of records:</b>		2823

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

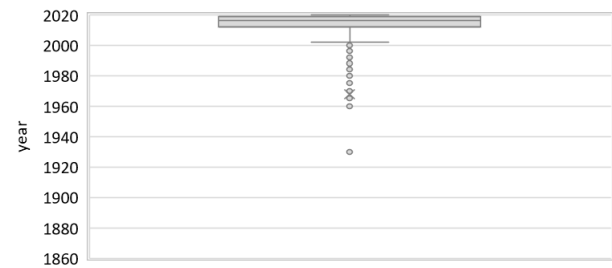
DHW SUPPLY TEMPERATURE



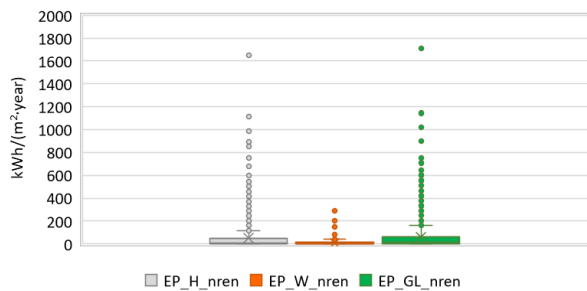
SYSTEM POWER


CO<sub>2</sub> EMISSION


HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

