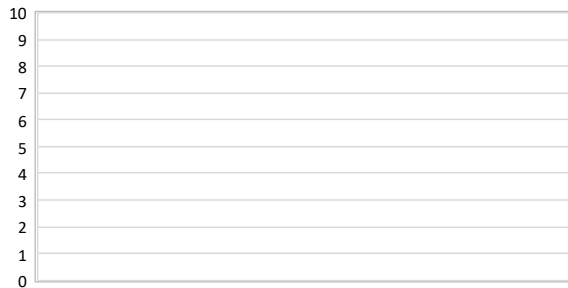


Region:	Piedmont						Archetype code:  RES_SINGLE_1961-1970_E_PIE	
Building category:	Residential buildings - Single family houses							
Period of construction:	1961-1970							
Climatic zone:	E	Number of records:				4181		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: hollow brick masonry with air gap (cod. MCV01) or solid brick masonry (cod. MLP01). Roof slabs: reinforced concrete floor slab for non-walkable flat roof (cod. COP01) or for pitched roof (cod. CIN04).							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>	138.7	99.2	87.2	116.9	166.7
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	557.9	374.3	358.2	483.1	670.4
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	-	-	-	-	-
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m <sup>-1</sup>	0.81	0.22	0.68	0.82	0.96
	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	$A_{wi}/A_{\text{use}}$	-	0.18	0.06	0.14	0.17	0.21
ENVELOPE	Roof type	-						
	U-value of the roof	$U_{f,up}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	External walls type	Hollow brick masonry: 59%; Solid Brick masonry: 36%; Unknown: 5%						
	U-value of the wall	$U_{wl}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	Slab on ground floor type	-						
	U-value of the floor	$U_{f,lw}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	Windows type	-						
	U-value of the windows	$U_W$	W/(m <sup>2</sup> ·K)	2.90	1.32	1.70	2.81	3.96
GAINS and VENTILATION	Shading system type	-						
	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%						
THERMAL SYSTEMS	Air exchange rate *	$n$	h <sup>-1</sup>	0.30	0.00	0.30	0.30	0.30
	Heating system type	Autonomous: 100%						
	Heating generator	-						
	Daily operating time of the heating system *	$t_H$	h	14.00	0.00	14.00	14.00	14.00
	Energy carrier	Natural Gas: 84%; Electricity: 7%; Solid biomass: 4%; LPG: 2%; District heating: 2%; Gas Oil: 1%						
	Heating emission sub-system	-						
	Cooling system type	-						
	Daily operating time of the cooling system *	$t_C$	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Autonomous, coupled with heating: 72%; Autonomous, detached from heating: 19%; Centralized, coupled with heating: 8%; Centralized, detached from heating: 1%						
	DHW generator	-						
	* These values are derived from UNI EN ISO Standards							

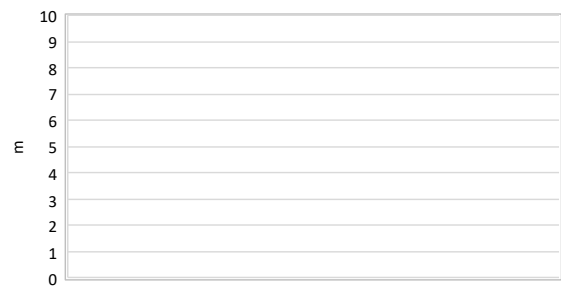
Region:	Piedmont	Archetype code: RES_SINGLE_1961- 1970_E_PIE
Building category:	Residential buildings - Single family houses	
Period of construction:	1961-1970	
Climatic zone:	E	
Number of records:		4181

### Numerical variables – GEOMETRY

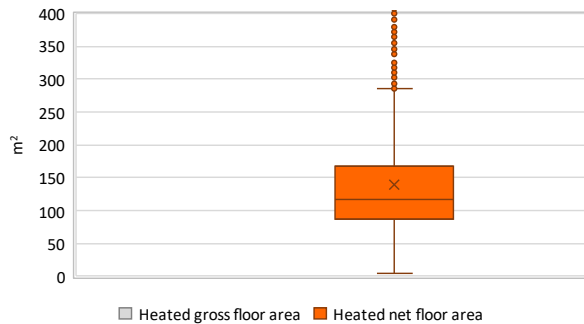
**NUMBER OF FLOORS**



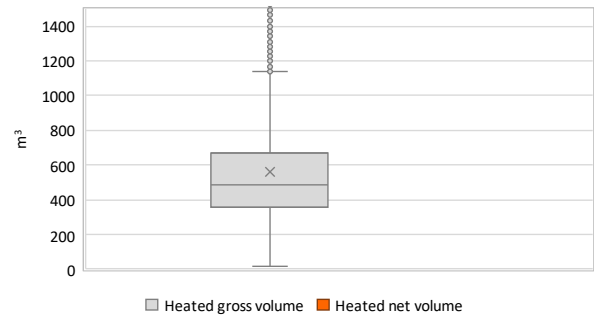
**GROSS HEIGHT**



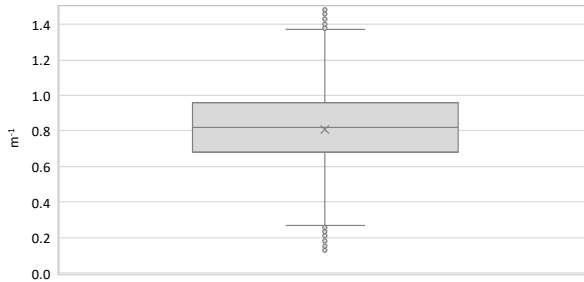
**AREA**



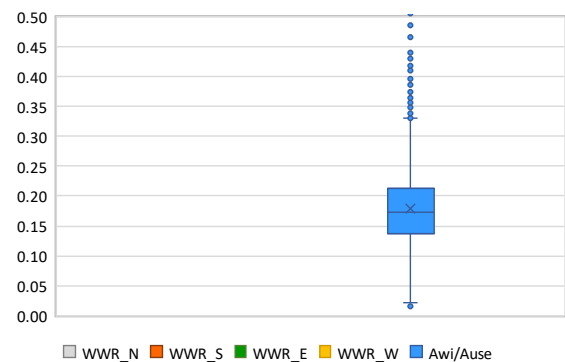
**VOLUME**



**COMPACTNESS RATIO**



**WINDOWS TO WALL RATIO**

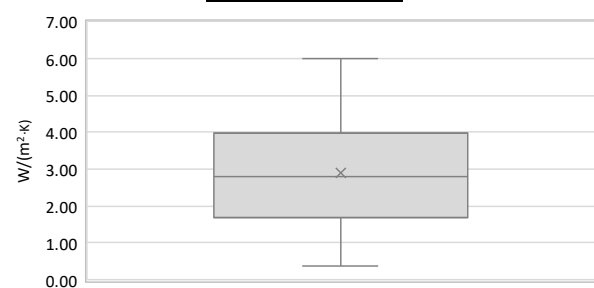


### Numerical variables – ENVELOPE

**OPAQUE BUILDING COMPONENTS U-VALUE**



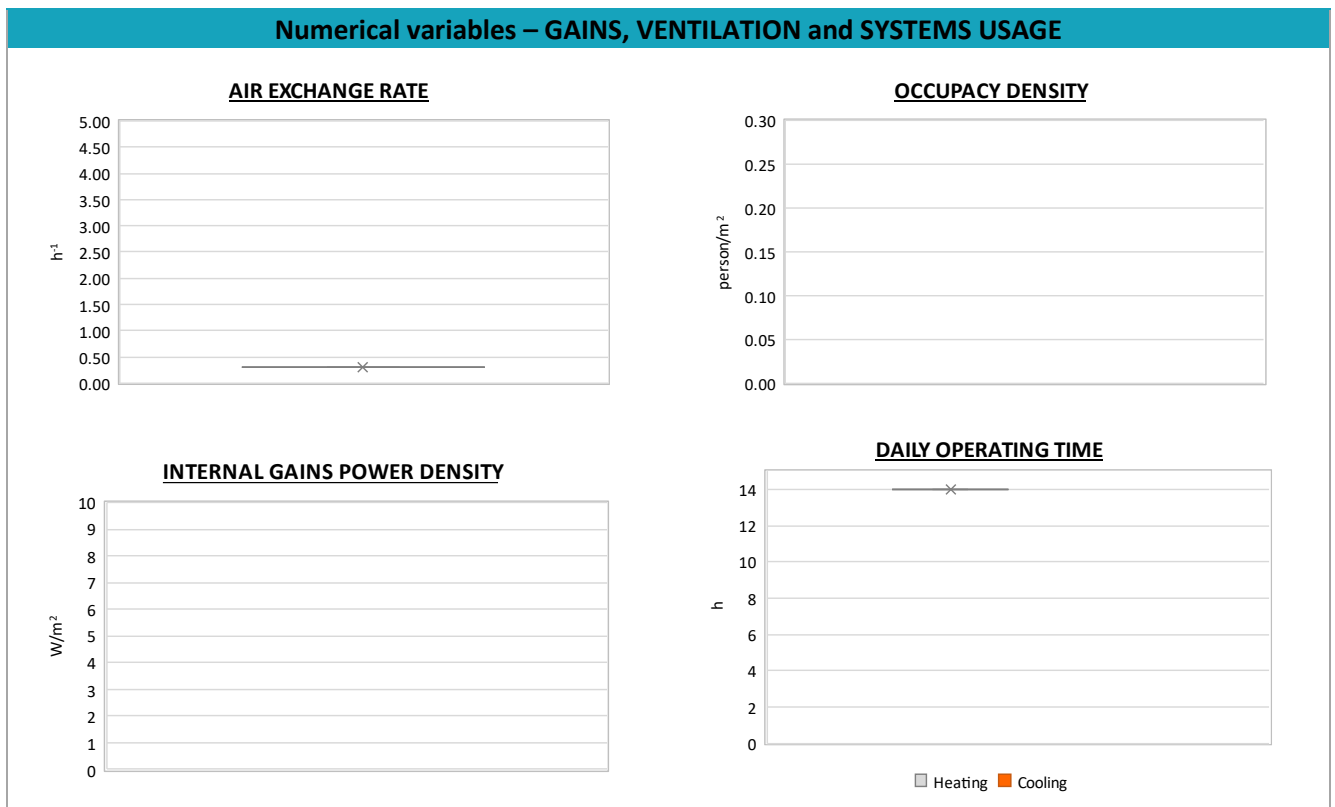
**WINDOWS U-VALUE**



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:	Piedmont	Archetype code: RES_SINGLE_1961- 1970_E_PIE
Building category:	Residential buildings - Single family houses	
Period of construction:	1961-1970	
Climatic zone:	E	
Number of records:		4181

ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
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	51.0	286.7	24.0	26.4	31.5
	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	6.9	6.0	3.5	5.3	8.7
	Temperature of DHW	$\vartheta_W$	°C	40.0	0.0	40.0	40.0	40.0
	DHW system power	$P_{W,gen}$	kW	29.3	96.7	22.8	24.7	30.0



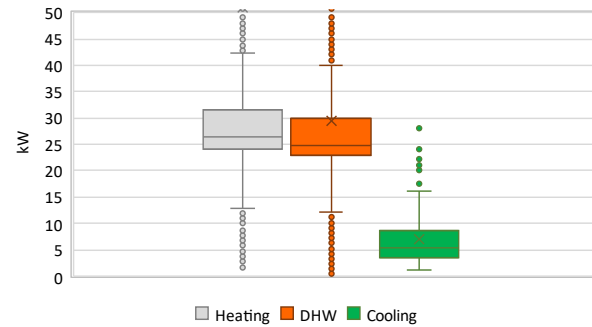
Region:	Piedmont	Archetype code: RES_SINGLE_1961- 1970_E_PIE
Building category:	Residential buildings - Single family houses	
Period of construction:	1961-1970	
Climatic zone:	E	
Number of records:		4181

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

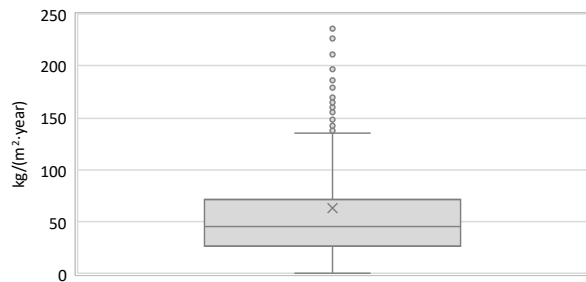
**DHW SUPPLY TEMPERATURE**



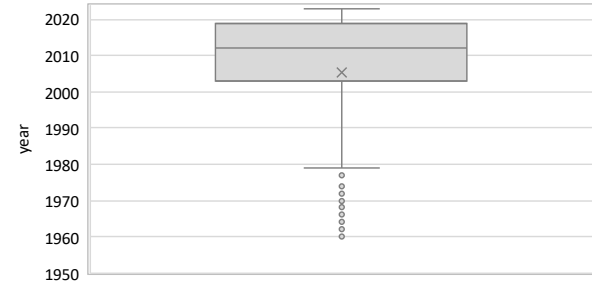
**SYSTEM POWER**



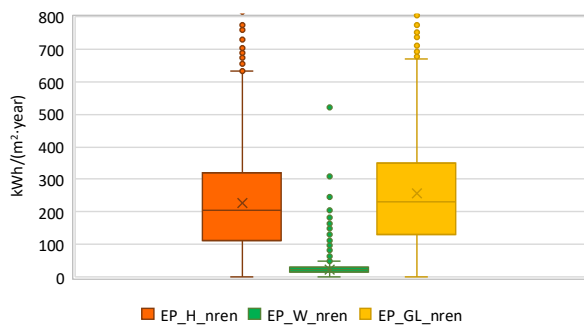
**CO<sub>2</sub> EMISSION**



**HEATING SYSTEM INSTALLATION YEAR**



**NON-RENEWABLE PRIMARY ENERGY USE**



**RENEWABLE PRIMARY ENERGY USE**

