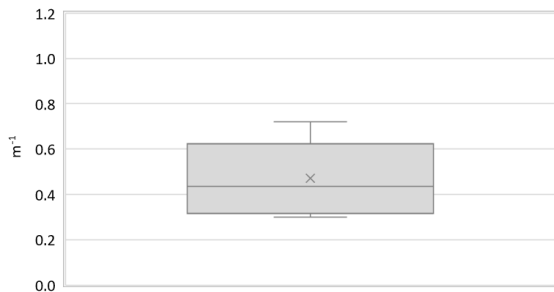


Region:	Trentino Alto Adige						Archetype code: RES_APPBLOCK_ 1941-1950_E_TN	
Building category:	Residential buildings – Apartments (in multifamily blocks)							
Period of construction:	1941-1950							
Climatic zone:	E	Number of records:				713		
Description (the codes associated with walls and slabs 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 ²	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m ²	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m ²	859	716	388	684	968
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	3310	2562	1636	2718	3402
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.47	0.15	0.32	0.44	0.62
	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_{use}	-	-	-	-	-	-
ENVELOPE	Roof type	-						
	U-value of the roof	$U_{\text{fi;up}}$	W/(m ² ·K)	-	-	-	-	-
	External walls type	-						
	U-value of the wall	U_{wl}	W/(m ² ·K)	-	-	-	-	-
	Slab on ground floor type	-						
	U-value of the floor	$U_{\text{fi;lw}}$	W/(m ² ·K)	-	-	-	-	-
	Windows type	-						
	U-value of the windows	U_W	W/(m ² ·K)	-	-	-	-	-
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	-	0.30	0.30	0.30
THERMAL SYSTEMS	Heating system type	Autonomous: 59%, Unknown: 21%, Centralized: 20%						
	Heating generator	Boiler (Unknown type): 78%, Traditional boiler: 7%, Condensing boiler: 6%, Unknown: 3%, DHC: 3%, Air source heat pump: 2%, Fireplace: 1%						
	Daily operating time of the heating system *	t_H	h	14	-	14	14	14
	Energy carrier	Natural gas: 95%, Gas Oil: 2%, Solid biomass: 1%, LPG: 1%, DHC: 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: 64%, Unknown: 15%, Autonomous - detached from heating: 12%, Centralized – coupled with heating: 7%, District heating: 2%,						
	DHW generator	Natural gas boiler: 72%, Unknown: 16%, Electric Heat Pump: 10%, Electric boiler: 2%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

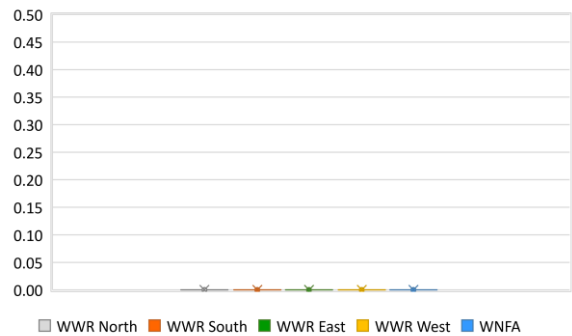
Region:	Trentino Alto Adige	Archetype code: RES_APPBLOCK_ 1941-1950_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1941-1950	
Climatic zone:	E	
Number of records:		713

Numerical variables – GEOMETRY

COMPACTNESS RATIO

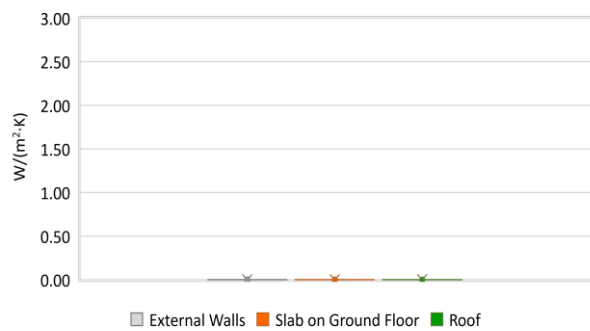


WINDOWS TO WALL RATIO

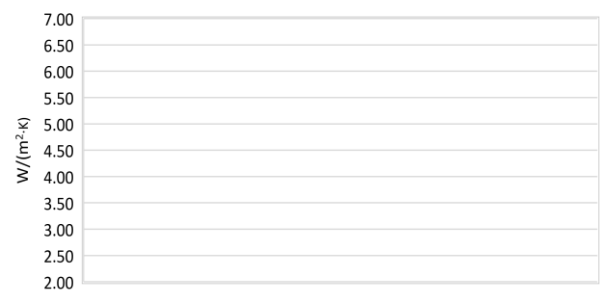


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE



WINDOWS U-VALUE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE



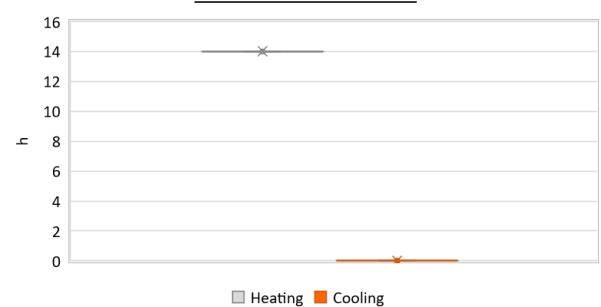
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



DAILY OPERATING TIME



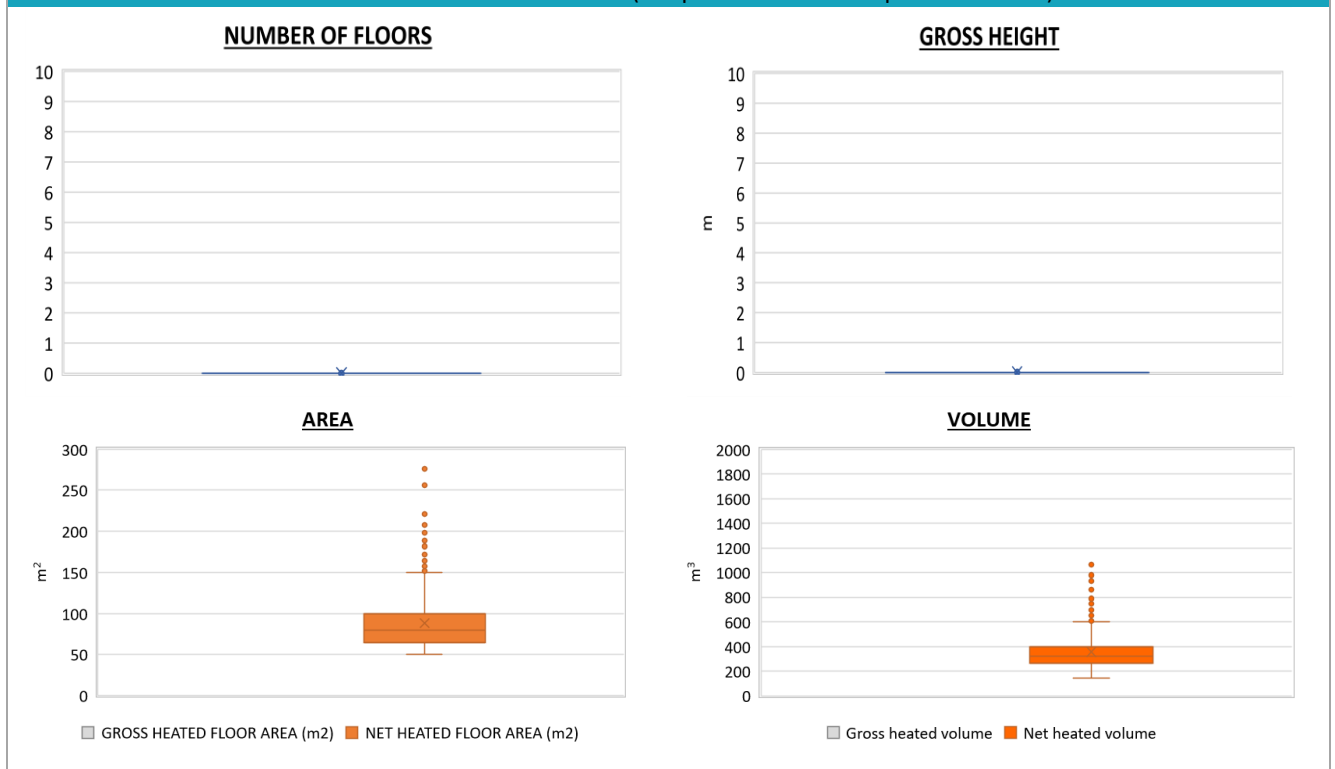
The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

Region:	Trentino Alto Adige			Archetype code: RES_APPBLOCK_ 1941-1950_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)			
Period of construction:	1941-1950			
Climatic zone:	E	Number of records:	713	

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 ²	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m ²	88	33	65	80	99
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	355	138	264	320	400
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	53	191	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	24	39	4	5	7
	Temperature of DHW	ϑ_w	°C	40	-	40	40	40
	DHW system power *	$P_{W,gen}$	kW	48	79	23	24	28

* These values refer to the apartment scale

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



Region:	Trentino Alto Adige	Archetype code: RES_APPBLOCK_ 1941-1950_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1941-1950	
Climatic zone:	E	
Number of records:		713

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

