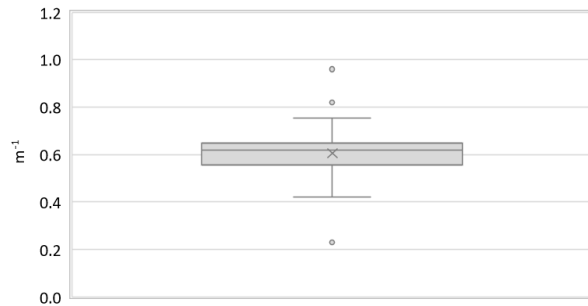


Region:	Trentino						Archetype code: RES-APPBLOCK_ 2001-2010_F_TN	
Building category:	Residential multifamily buildings							
Period of construction:	2001-2010							
Climatic zone:	F	Number of records:		2427				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): <u>External walls</u> : no data available <u>Roof slabs</u> : 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 ²	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m ²	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m ²	495	306	337	394	538
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	1903	1208	1235	1486	2195
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.60	0.10	0.56	0.62	0.65
	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		$U_{\text{fl,up}}$	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		$U_{\text{fl,lw}}$	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	0.3	-	0.3	0.3	0.3
THERMAL SYSTEMS	Heating system type	Autonomous: 54%; Centralized: 26%; Unknown 20%						
	Heating generator	Boiler (unknown type): 99%; Fireplace: 1%						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	Electricity: 55%; District heating: 29%; Electricity from PV, wind turbines, hydraulic turbines: 16%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 99%; Air-cooled chiller: 1%						
	Daily operating time of the cooling system *	t_C	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 59%; Centralized – coupled with heating: 22%; Unknown: 14%; Autonomous - detached from heating: 3%; District heating: 2%						
	DHW generator	Natural gas boiler: 91%; Unknown 5%; Electric heat pump: 3%; Solar thermal: 1%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

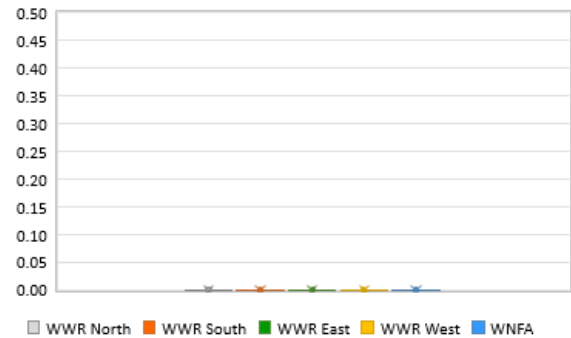
Region:	Trentino	Archetype code: RES-APPBLOCK_ 2001-2010_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	2001-2010	
Climatic zone:	F	
Number of records:		2427

Numerical variables – GEOMETRY

COMPACTNESS RATIO

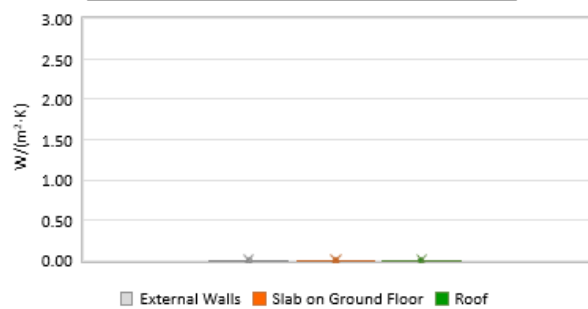


WINDOWS TO WALL RATIO

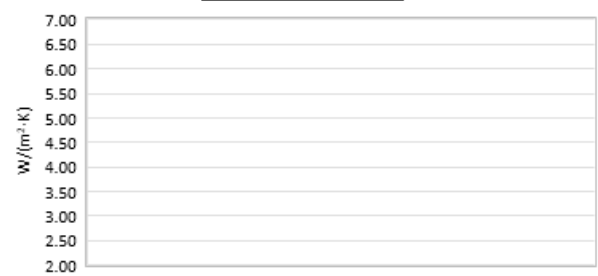


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE



WINDOWS U-VALUE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE



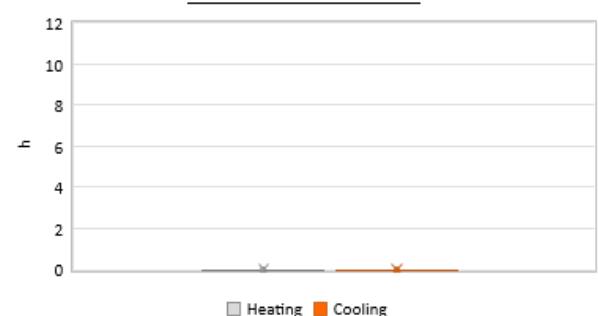
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



DAILY OPERATING TIME

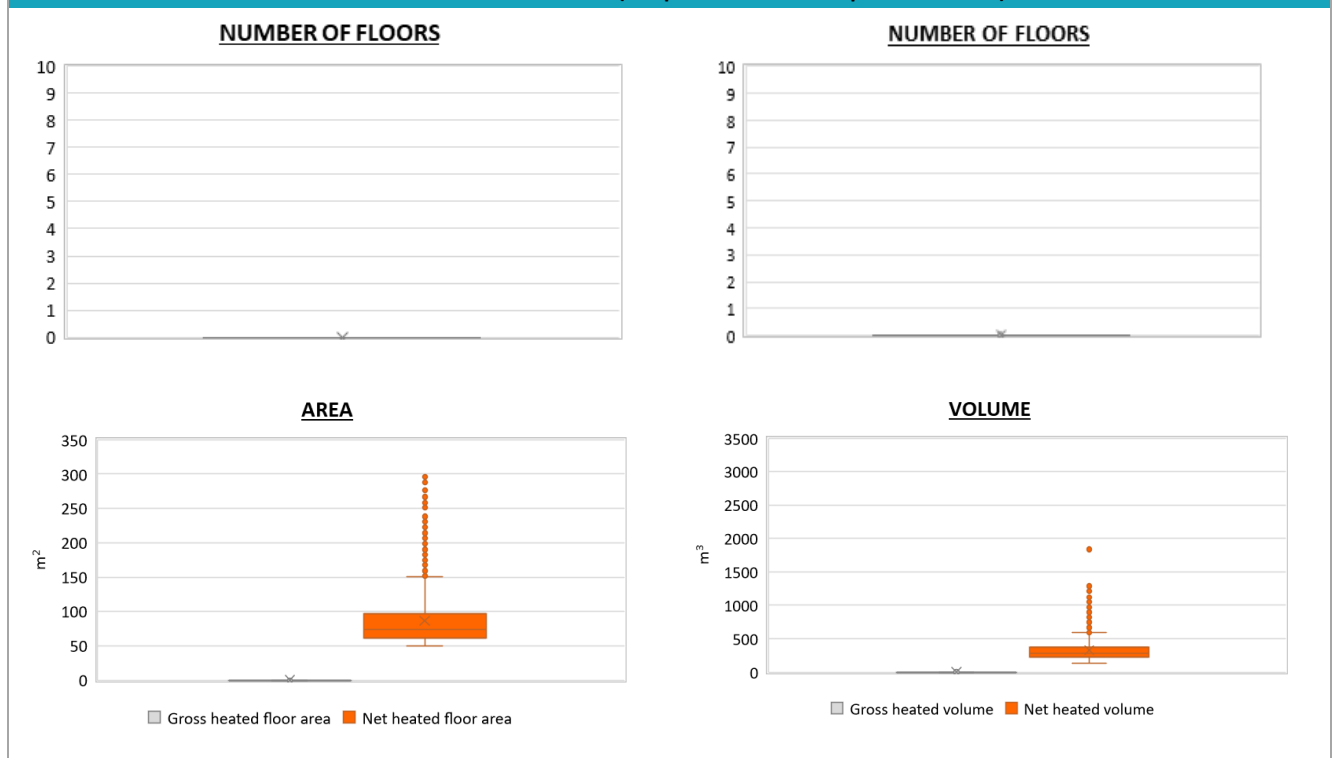


The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

Region:	Trentino	Archetype code: RES-APPBLOCK_ 2001-2010_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	2001-2010	
Climatic zone:	F	
Number of records:		2427

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	87	40	61	74	97
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	329	163	227	280	374
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	39	38	24	26	32
	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	4	1	3	4	5
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	38	35	24	26	32

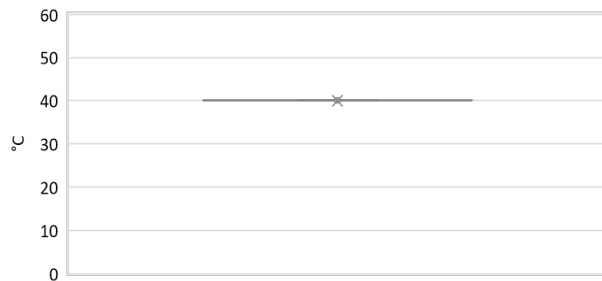
Additional data: GEOMETRY (the plots refer to the apartment scale)



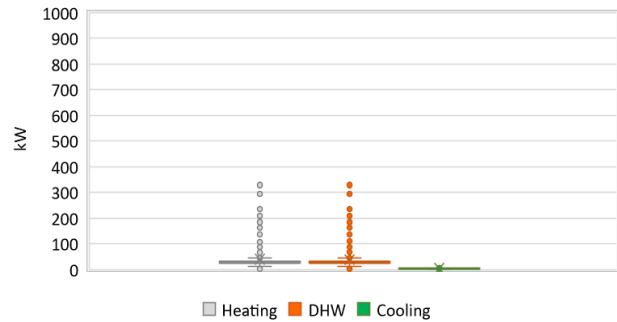
Region:	Trentino	Archetype code: RES-APPBLOCK_ 2001-2010_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	2001-2010	
Climatic zone:	F	
Number of records:		2427

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

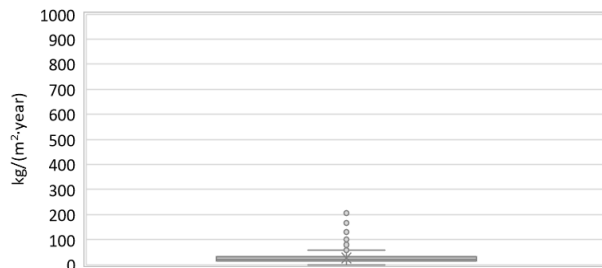
DHWSUPPLYTEMPERATURE



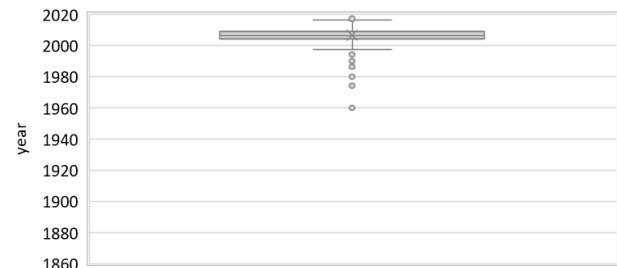
SYSTEMPOWER



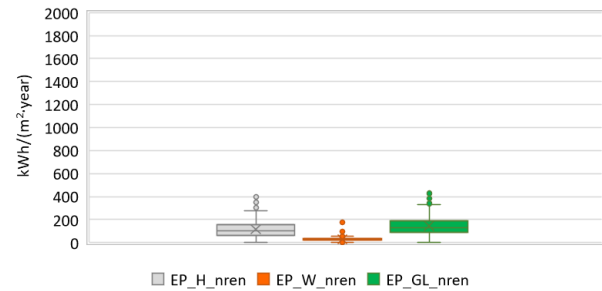
CO2EMISSION



HEATINGSYSTEMINSTALLATIONYEAR



NON-RENEWABLEPRIMARYENERGYUSE



RENEWABLEPRIMARYENERGYUSE

