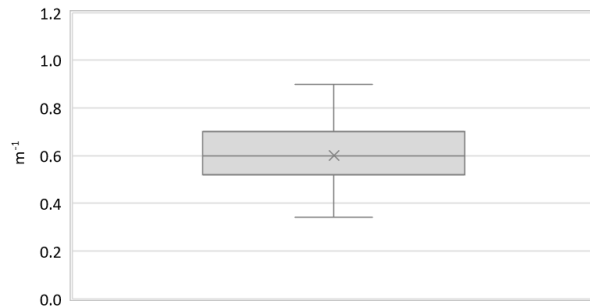


Region:		Trentino					Archetype code: RES_APPBLOCK_ 1991-2000_F_TN	
Building category:		Residential multifamily buildings						
Period of construction:		1991-2000						
Climatic zone:		F	Number of records:		2078			
Description (the codes associated with walls and slabs refer to the structures described 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	539	395	338	382	552
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	2007	1436	1228	1486	2108
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.60	0.13	0.52	0.60	0.70
	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: 48%; Centralized: 29%; Unknown 23%						
	Heating generator	Boiler (unknown type): 98%; Fireplace: 2%						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	Electricity: 38%; Electricity from PV, wind turbines, hydraulic turbines:32%; District heating: 30%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 100%						
	Daily operating time of the cooling system *	t_C	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 51%; Centralized – coupled with heating: 25%; Unknown: 17%; Autonomous - detached from heating: 5%; District heating: 2%						
	DHW generator	Natural gas boiler: 88%; Unknown 6%; Electric Heat Pump: 4%; Electric boiler: 1%; Solar thermal: 1%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

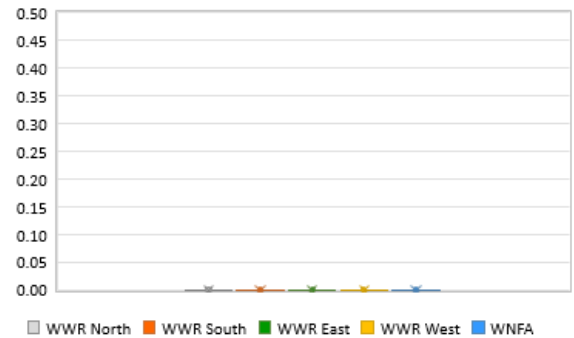
Region:	Trentino	Archetype code: RES_APPBLOCK_ 1991-2000_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1991-2000	
Climatic zone:	F	
Number of records:		2078

Numerical variables – GEOMETRY

COMPACTNESS RATIO

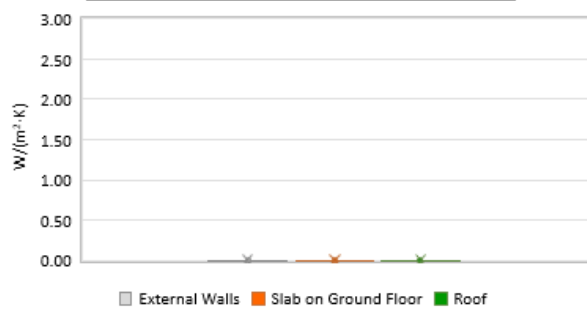


WINDOWS TO WALL RATIO

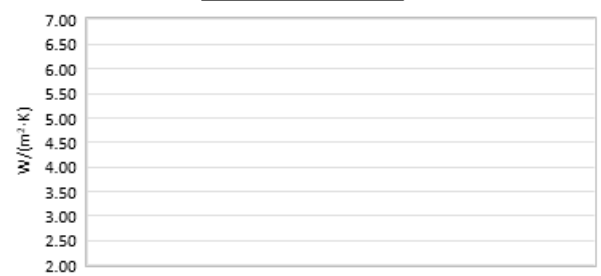


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE



WINDOWS U-VALUE

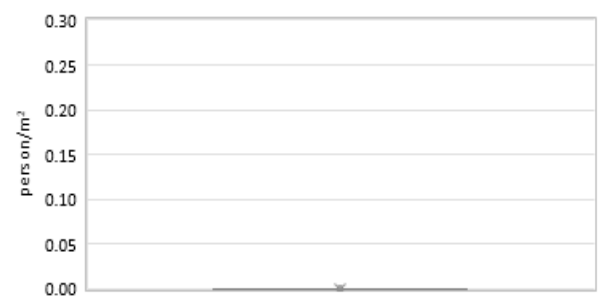


Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE



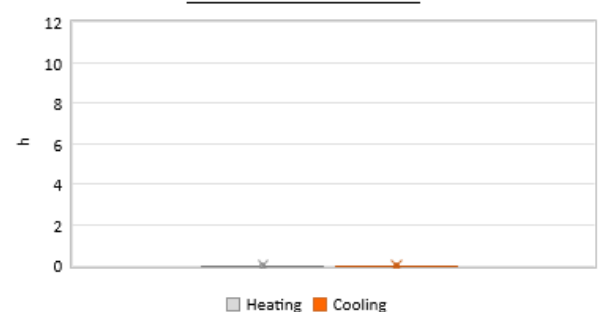
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



DAILY OPERATING TIME

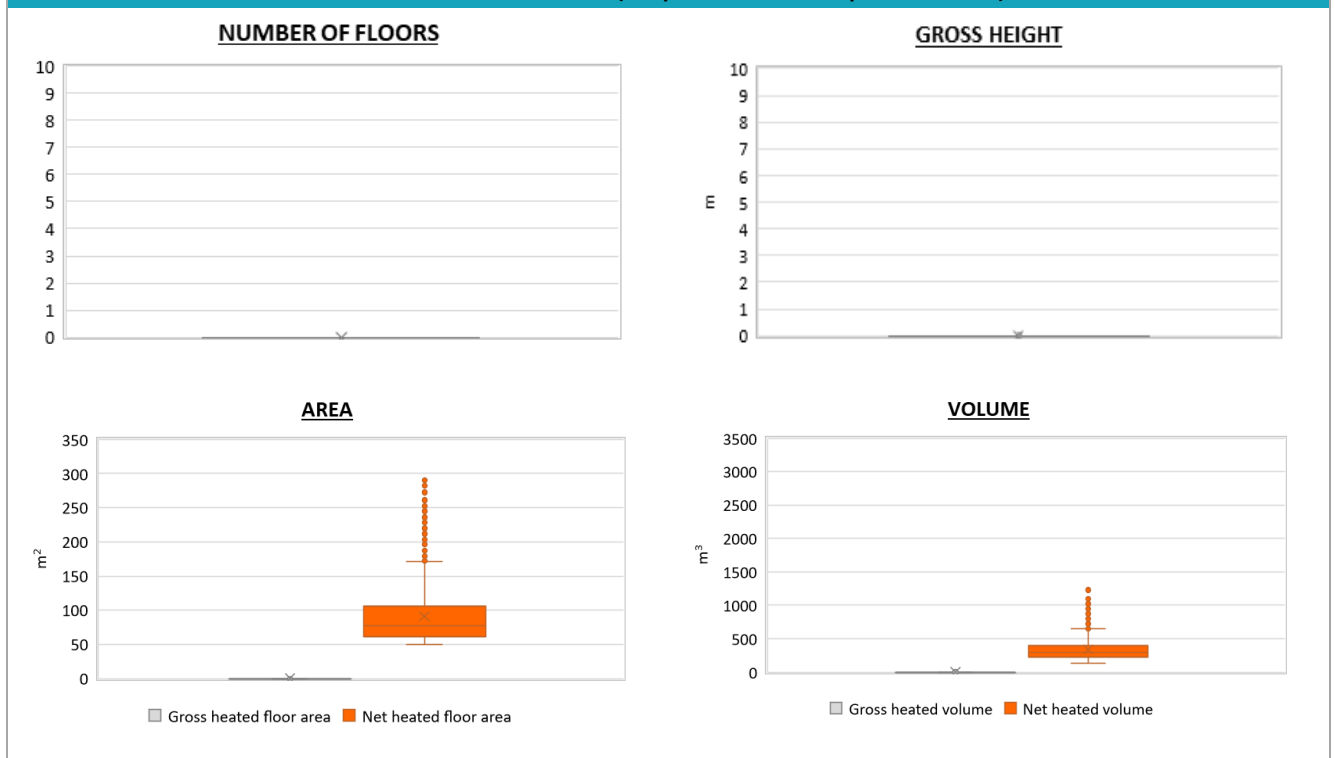


The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

Region:	Trentino			Archetype code: RES_APPBLOCK_ 1991-2000_F_TN
Building category:	Residential multifamily buildings			
Period of construction:	1991-2000			
Climatic zone:	F	Number of records:	2078	

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	91	43	62	78	106
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	341	167	229	290	397
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	38	31	24	28	34
	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	33	16	24	26	28
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	36	29	24	27	33

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



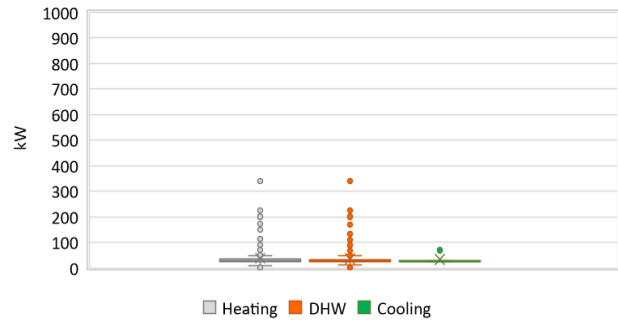
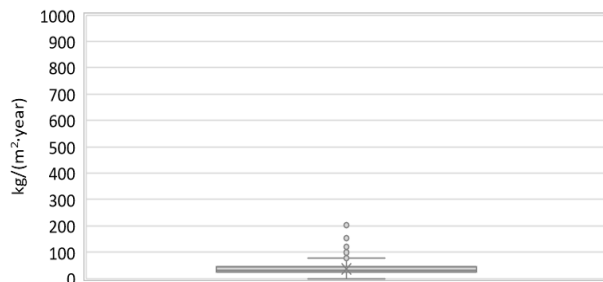
Region:	Trentino	Archetype code: RES_APPBLOCK_ 1991-2000_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1991-2000	
Climatic zone:	F	
Number of records:		2078

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

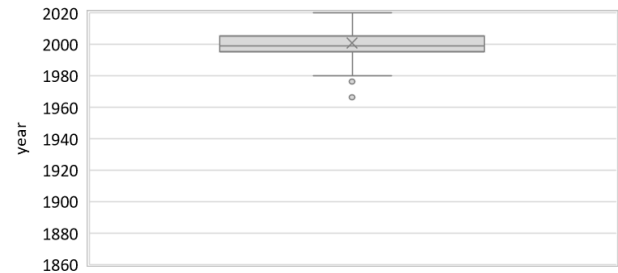
DHW SUPPLY TEMPERATURE



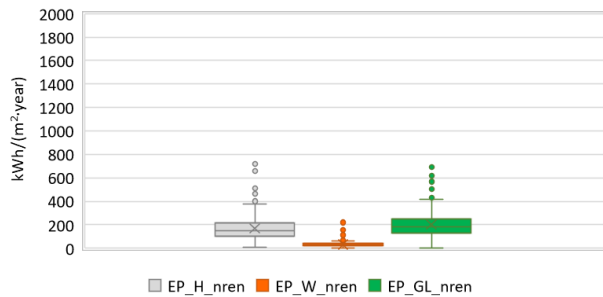
SYSTEM POWER


CO₂ EMISSION


HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

