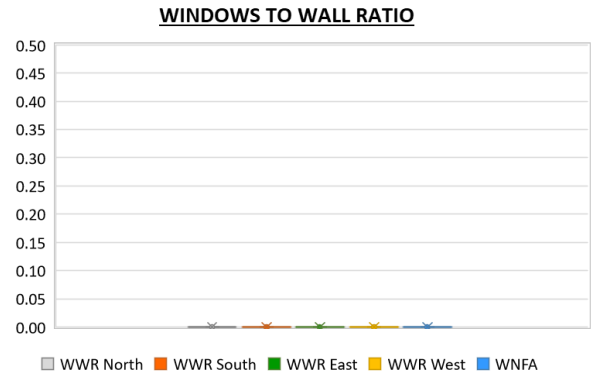
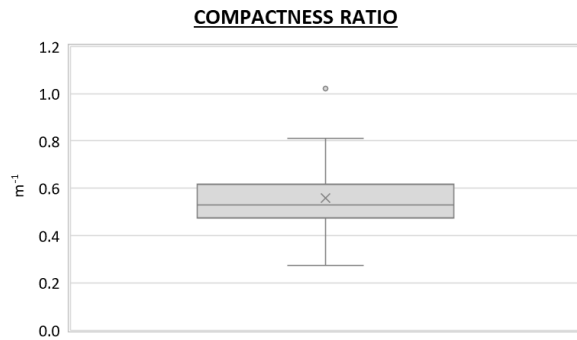


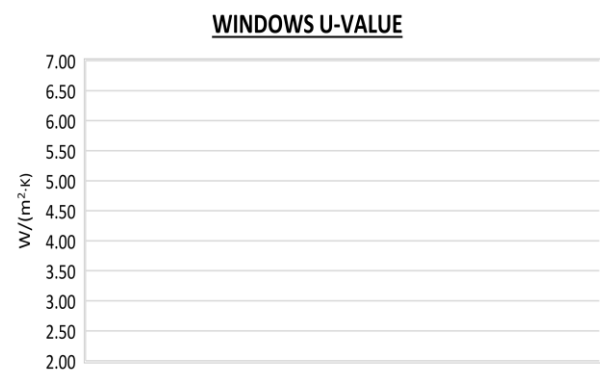
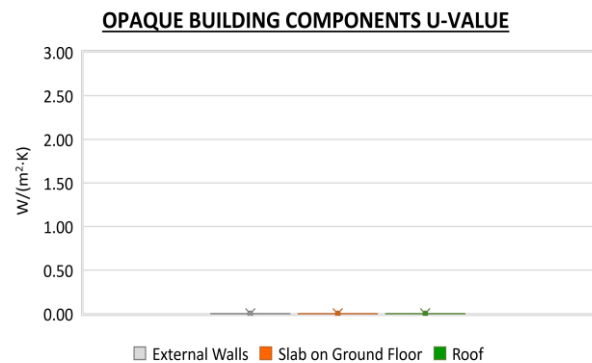
Region:	Trentino Alto Adige						Archetype code: RES_APPBLOCK_2001-2010_E_TN	
Building category:	Residential buildings – Apartments (in multifamily blocks)							
Period of construction:	2001-2010							
Climatic zone:	E	Number of records:		3349				
Description (the codes associated with walls and slabs 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	1255	1111	628	989	1534
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	4590	3573	2265	3689	5954
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.56	0.13	0.48	0.53	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	$U_{fi;up}$	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	$U_{fi;lw}$	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: 44%, Centralized: 41%, Unknown: 15%						
	Heating generator	Boiler (unknown type): 84%, DHC: 6%, Traditional boiler: 5%; Condensing boiler: 4%, Air source heat pump: 1%						
	Daily operating time of the heating system *	t_H	h	14	-	14	14	14
	Energy carrier	Natural gas: 98%, LPG: 1%, Unknown: 1%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 99%, Air-cooled chiller: 1%						
	Daily operating time of the cooling system *	t_C	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 46%, Centralized – coupled with heating: 39%, Unknown: 7%, District heating: 6%, Autonomous - detached from heating: 2%						
	DHW generator	Natural gas boiler: 90%, Unknown: 8%, Electric heat pump: 1%, Solar thermal: 1%						
* 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_2001- 2010_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	2001-2010	
Climatic zone:	E	
Number of records:		3349

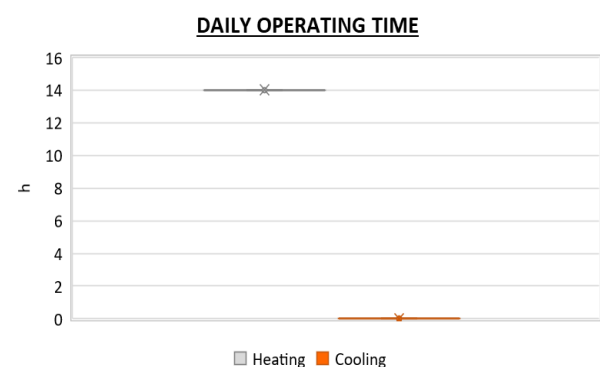
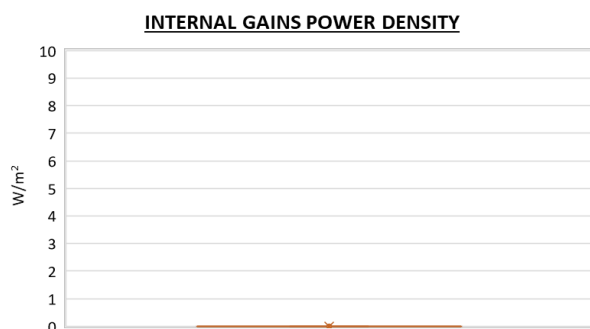
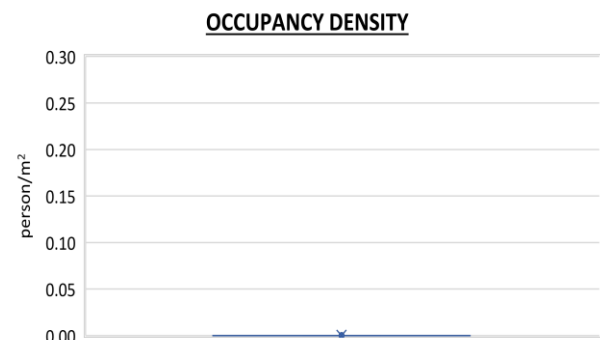
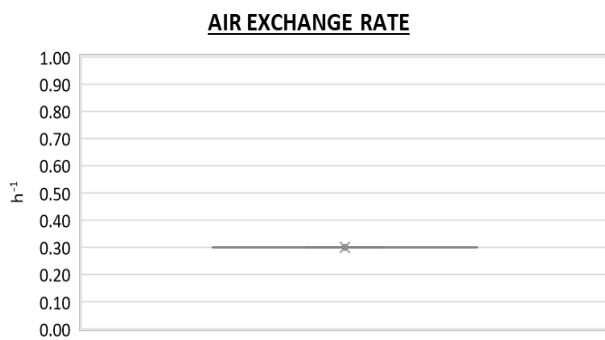
Numerical variables – GEOMETRY



Numerical variables – ENVELOPE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



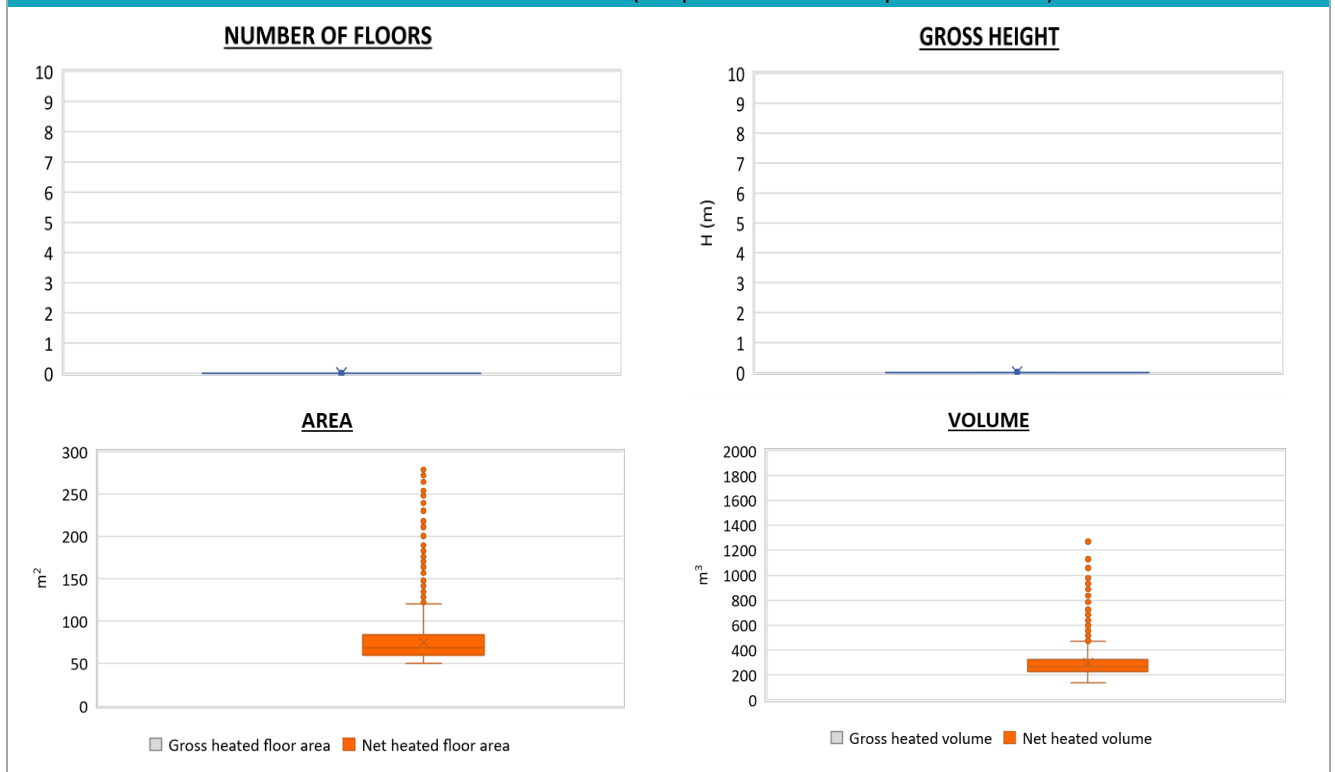
The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

Region:	Trentino Alto Adige			Archetype code: RES_APPBLOCK_2001- 2010_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)			
Period of construction:	2001-2010			
Climatic zone:	E	Number of records:	3349	

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	75	24	60	69	84
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	288	98	226	265	325
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	91	123	26	32	107
	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	58	75	4	10	130
	Temperature of DHW	ϑ_w	°C	40	-	40	40	40
	DHW system power *	$P_{W,gen}$	kW	91	106	26	32	105

* These values refer to the apartment scale

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



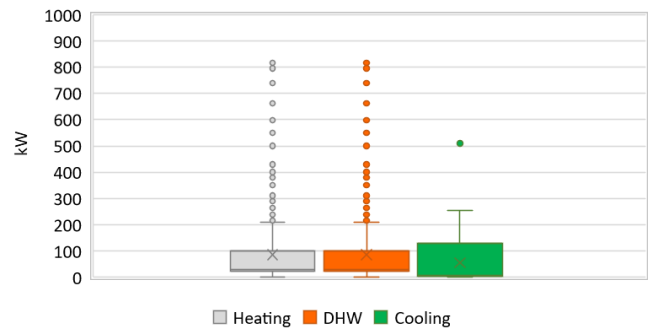
Region:	Trentino Alto Adige	Archetype code: RES_APPBLOCK_2001- 2010_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	2001-2010	
Climatic zone:	E	
Number of records:		3349

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

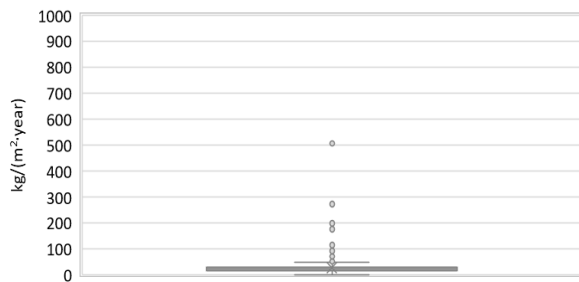
DHW SUPPLY TEMPERATURE



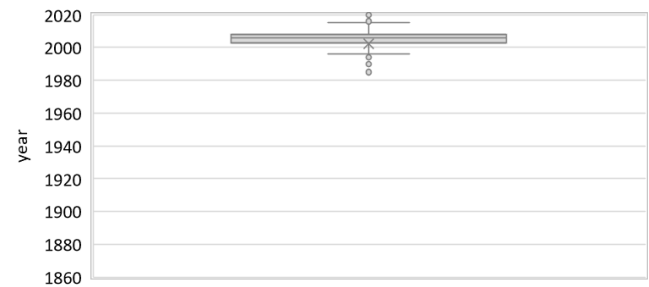
SYSTEM POWER



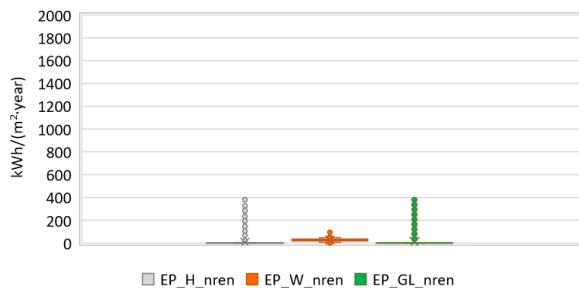
CO₂ EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

