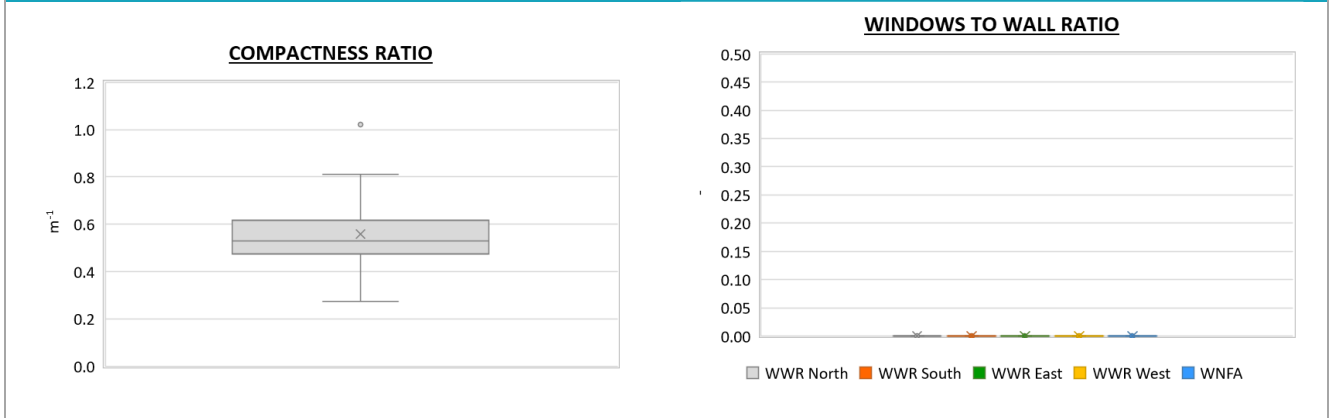
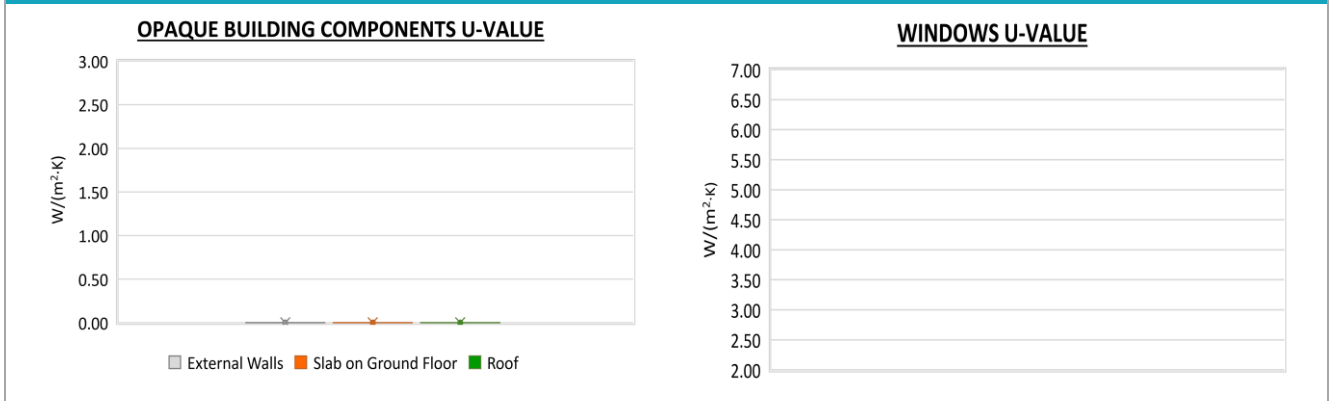
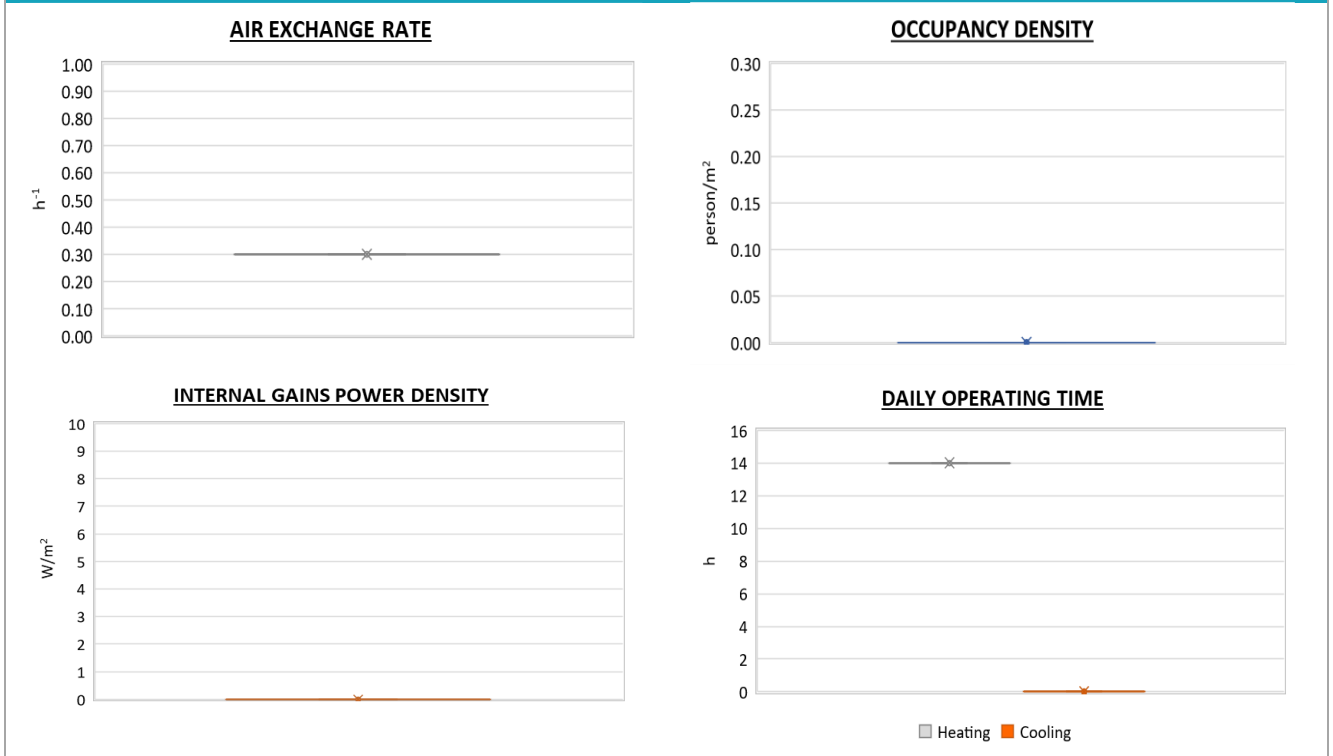


Region:		Trentino Alto Adige					Archetype code:		
Building category:		Residential buildings – Apartments (in multifamily blocks)					RES_APPBLOCK_2001-2010_E_TN		
Period of construction:		2001-2010							
Climatic zone:		E	Number of records:		3349				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):						Data sources:			
External walls: no data available						APE (100%)			
Roof slabs: no data available									
	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									

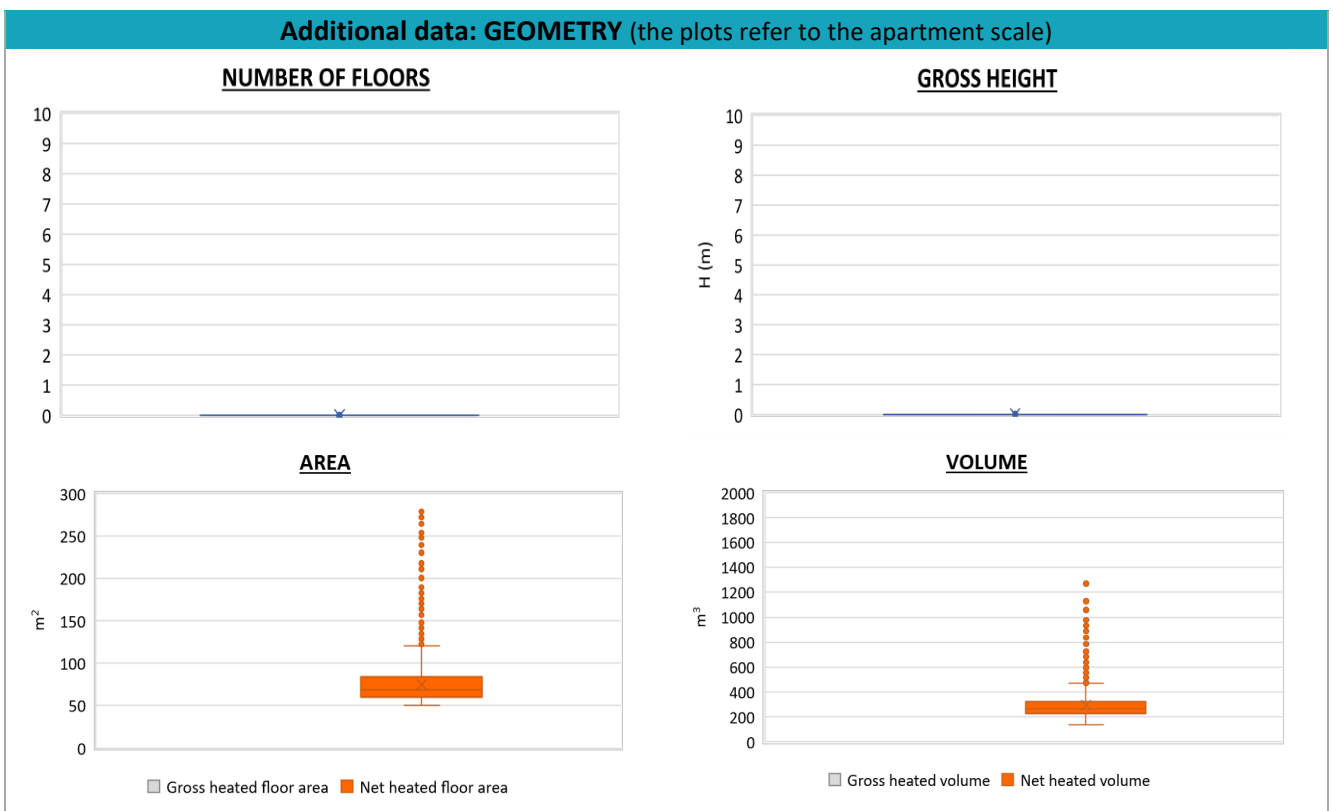
Region:	Trentino Alto Adige	Archetype code: RES_APPBLOCK_2001-2010_E_TN
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	2001-2010	
Climatic zone:	E	

Numerical variables – GEOMETRY

Numerical variables – ENVELOPE

Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE


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	

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



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	

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