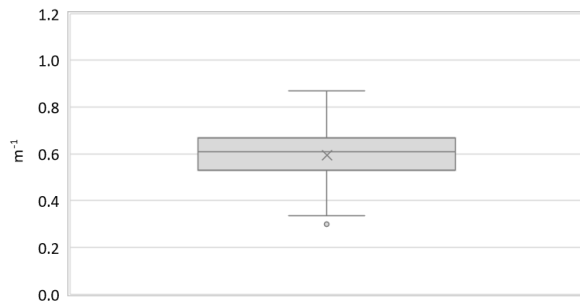


Region:	Trentino						Archetype code: RES_APPBLOCK_ 1981-1990_F_TN	
Building category:	Residential multifamily buildings							
Period of construction:	1981-1990							
Climatic zone:	F	Number of records:				2113		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: no data available Roof slabs: no data available							Data sources: 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	519	321	364	439	523
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	1915	1245	1311	1617	2044
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.59	0.09	0.53	0.61	0.66
	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	Centralized: 39%; Autonomous: 35%; Unknown 26%						
	Heating generator	Boiler (unknown type): 92%; Unknown: 5%; Fireplace: 3%						
	Daily operating time of the heating system *	t_{H}	h	No limitation				
	Energy carrier	Natural gas: 42%; Gas Oil: 40%; Solid biomass: 9%; LPG: 8%; Electricity: 1%						
	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: 38%; Centralized – coupled with heating: 31%; Unknown: 18%; Autonomous - detached from heating: 10%; District heating: 3%						
	DHW generator	Natural gas boiler: 80%; Electric Heat Pump: 9%; Unknown: 7%; Electric boiler: 3%; Solar thermal: 1%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

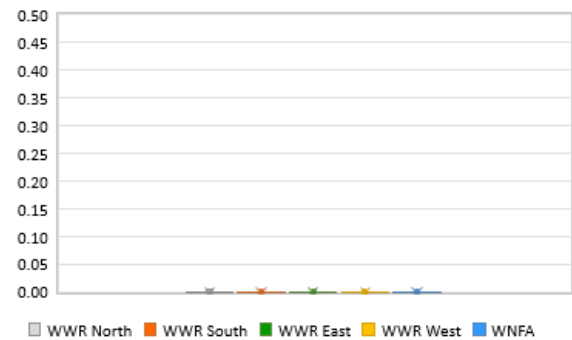
Region:	Trentino	Archetype code: RES_APPBLOCK_ 1981-1990_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1981-1990	
Climatic zone:	F	
Number of records:		2113

Numerical variables – GEOMETRY

COMPACTNESS RATIO

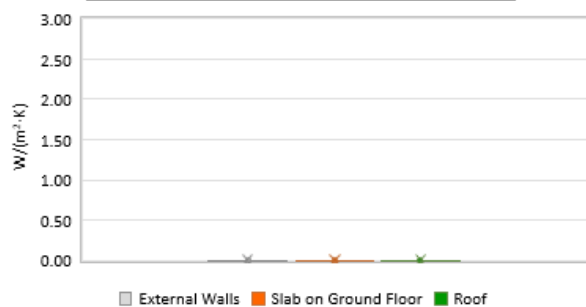


WINDOWS TO WALL RATIO

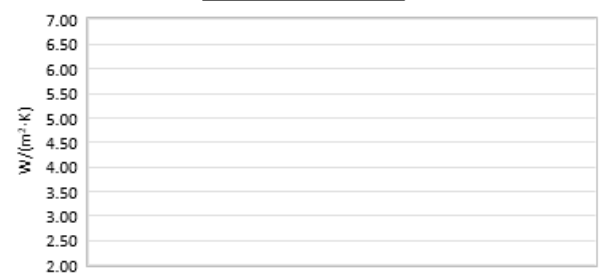


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE



WINDOWS U-VALUE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE



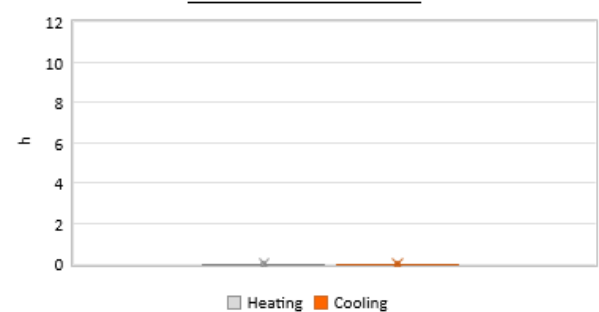
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



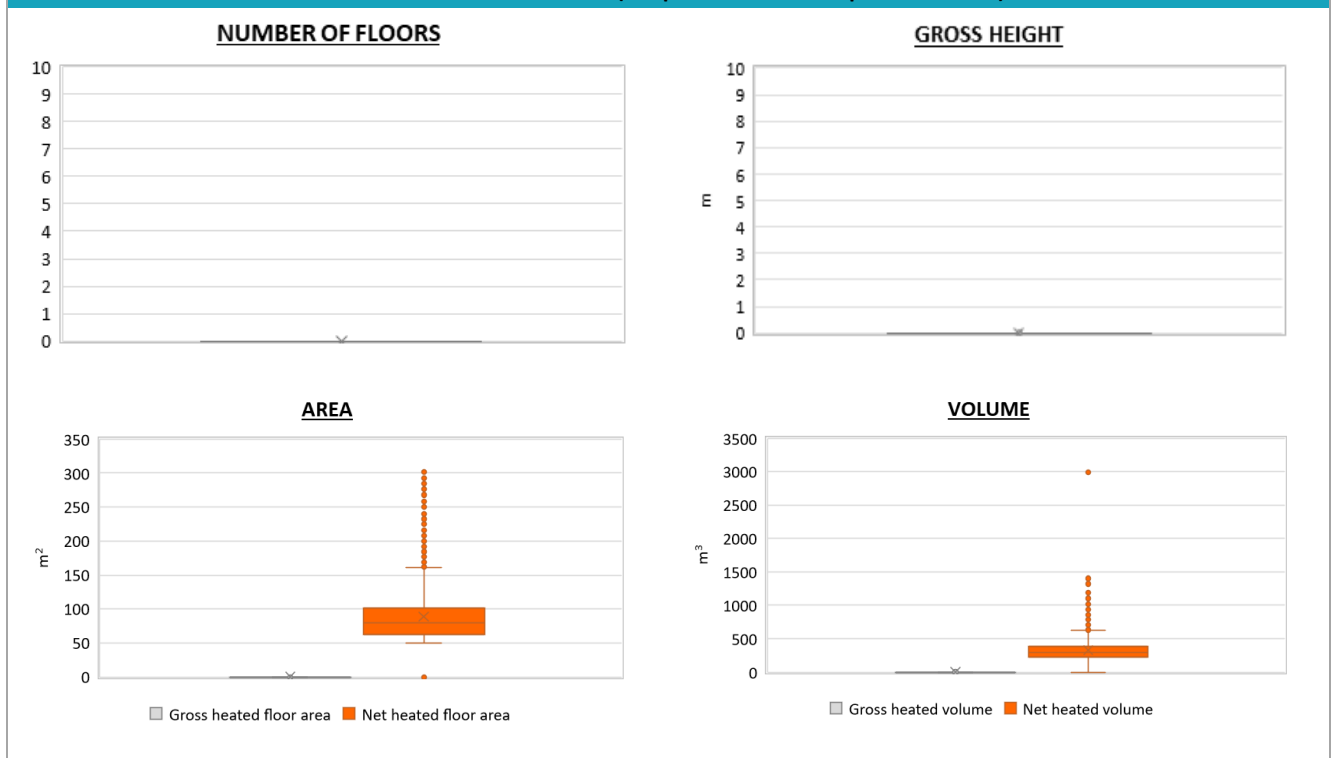
DAILY OPERATING TIME



Region:	Trentino			Archetype code: RES_APPBLOCK_ 1981-1990_F_TN
Building category:	Residential multifamily buildings			
Period of construction:	1981-1990			
Climatic zone:	F	Number of records:	2113	

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	92	43	64	81	103
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	342	166	233	301	391
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	93	24	30	60
	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	-	-	-	-	-
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	46	75	24	28	48

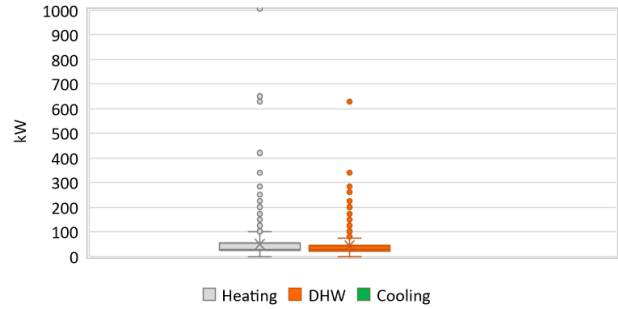
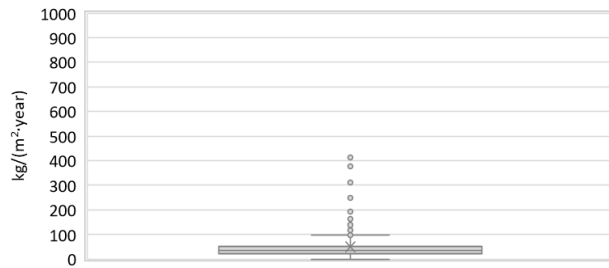
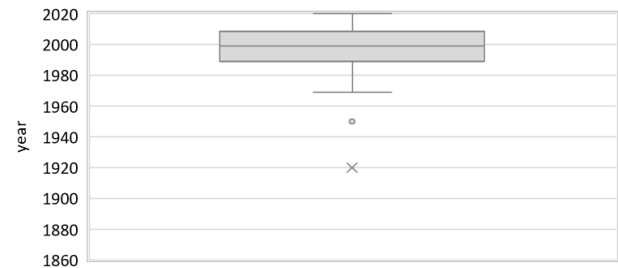
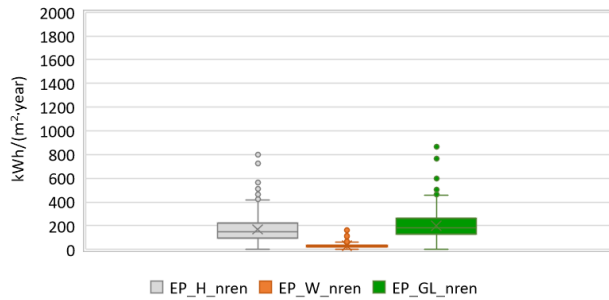
Additional data: GEOMETRY (the plots refer to the apartment scale)



Region:	Trentino	Archetype code: RES_APPBLOCK_ 1981-1990_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1981-1990	
Climatic zone:	F	
Number of records:		2113

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
