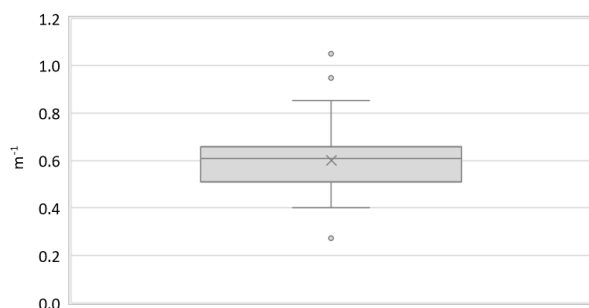


Region:	Trentino						Archetype code: RES_APPBLOCK_ 1961-1970_F_TN	
Building category:	Residential multifamily buildings							
Period of construction:	1961-1970							
Climatic zone:	F	Number of records:				2723		
Description (the codes associated with walls and slabs refer to the structures described 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	533	461	334	390	535
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	1904	1500	1253	1436	2010
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.60	0.12	0.51	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		$U_{fl,up}$	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		$U_{fl,lw}$	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: 33%; Unknown 28%						
	Heating generator	Boiler (unknown type): 97%; Fireplace: 3%						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	District heating: 49%; Electricity from PV, wind turbines, hydraulic turbines: 31%; Electricity: 20%						
	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: 37%; Centralized – coupled with heating: 24% Autonomous - detached from heating: 17%; Unknown: 16%; District heating: 6%						
	DHW generator	Natural gas boiler: 70%; Electric Heat Pump: 16%; Unknown 8%; Electric boiler: 5%; Solar thermal: 1%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

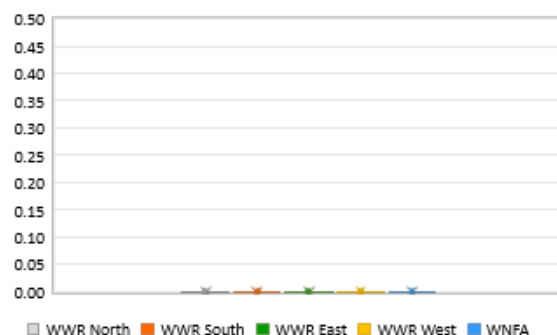
Region:	Trento	Archetype code: RES_APPBLOCK_ 1961-1970_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1961-1970	
Climatic zone:	F	
Number of records:		2723

Numerical variables – GEOMETRY

COMPACTNESS RATIO

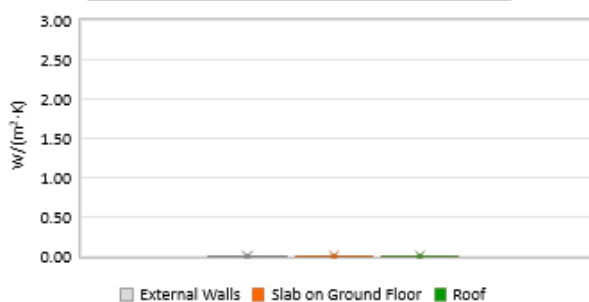


WINDOWS TO WALL RATIO

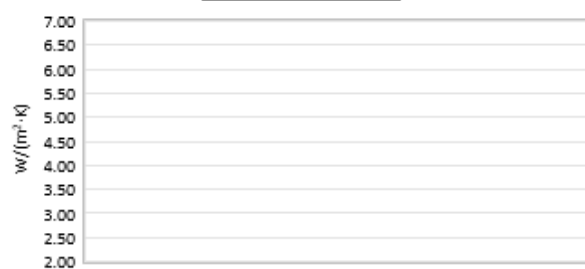


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

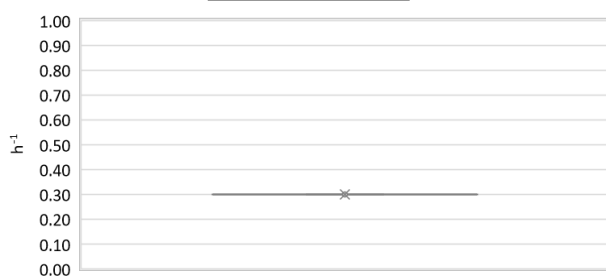


WINDOWS U-VALUE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE



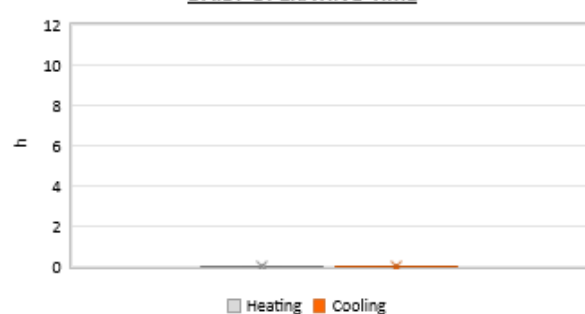
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



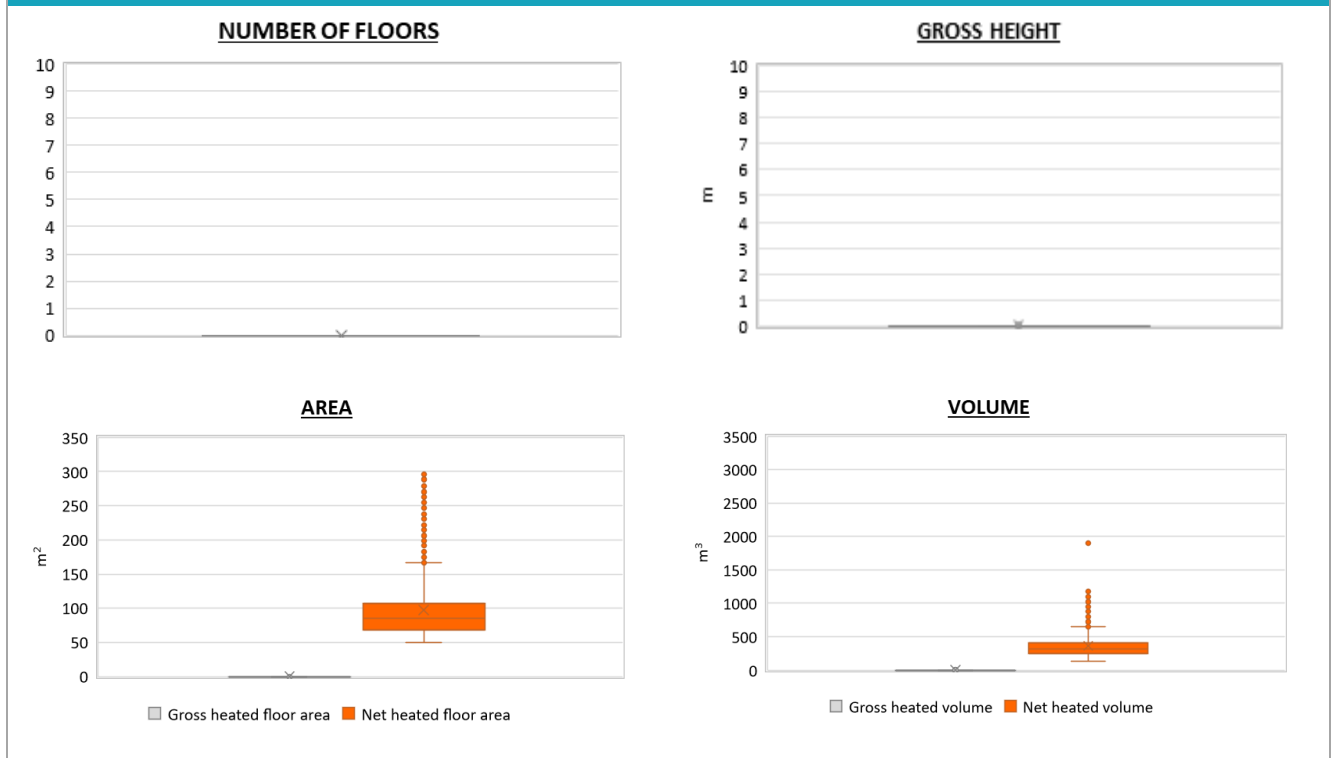
DAILY OPERATING TIME



Region:	Trento			Archetype code: RES_APPBLOCK_ 1961-1970_F_TN
Building category:	Residential multifamily buildings			
Period of construction:	1961-1970			
Climatic zone:	F	Number of records:	2723	

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	97	44	68	86	107
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	363	173	251	318	410
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	69	106	24	30	46
	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	8	4	6	8	10
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power *	$P_{W,gen}$	kW	50	90	22	27	34

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



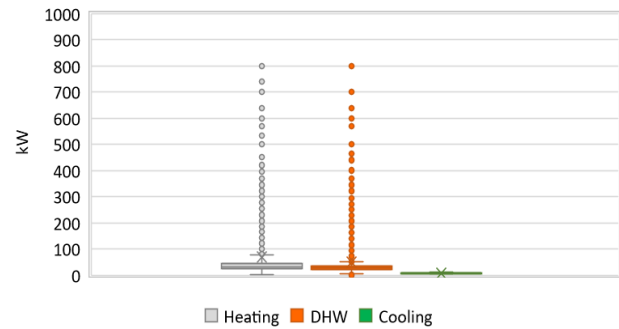
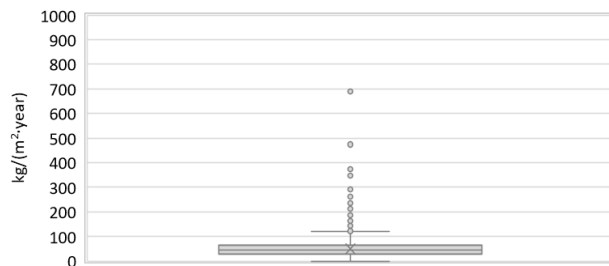
Region:	Trento	Archetype code: RES_APPBLOCK_ 1961-1970_F_TN
Building category:	Residential multifamily buildings	
Period of construction:	1961-1970	
Climatic zone:	F	
Number of records:		2723

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

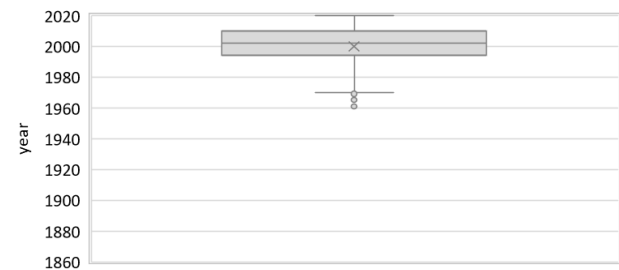
DHW SUPPLY TEMPERATURE



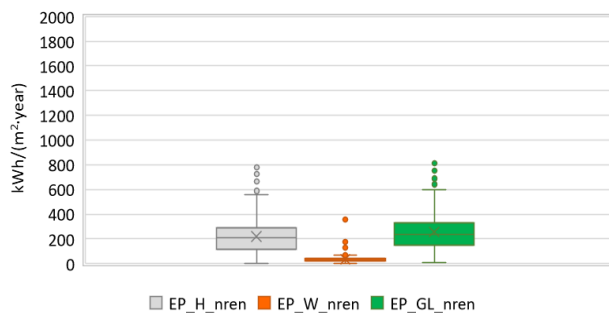
SYSTEM POWER


CO₂ EMISSION


HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

