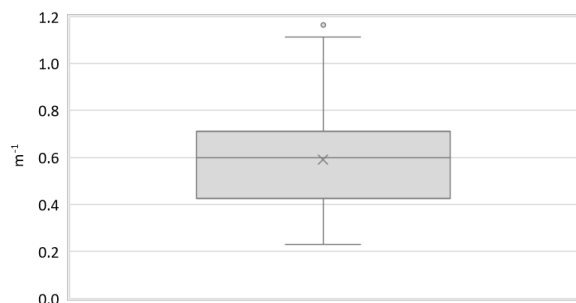


Region:	Trentino						Archetype code: OFF_ 1961-1970_F_TN	
Building category:	Office buildings							
Period of construction:	1961-1970							
Climatic zone:	F	Number of records:				105		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): <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	206	271	79	110	193
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	806	1061	274	445	702
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.59	0.22	0.44	0.60	0.71
	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		$U_{f,up}$	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		$U_{f,lw}$	W/(m ² ·K)	-	-	-	-	-
Windows type		-						
U-value of the windows		U_W	W/(m ² ·K)	-	-	-	-	-
GAINS and VENTILATION	Shading system type	-						
	Occupancy density *	O_c	person/m ²	UNI EN 16798-1				
	Lighting power density *	W_L	W/m ²	UNI EN 16798-1				
	Equipment power density *	W_A	W/m ²	UNI EN 16798-1				
	Type of ventilation	Natural: 100%						
THERMAL SYSTEMS	Air exchange rate *	n	h ⁻¹	UNI EN 16798-1				
	Heating system type	Unknown 43%; Centralized: 43%; Autonomous: 14%						
	Heating generator	Boiler (unknown type): 86%; Unknown: 8%; Heat exchanger of district heating/cooling: 6%						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	District heating: 53%; Gas Oil: 28%; Solid biomass: 8%; District heating: 5%; LPG:2%; Electricity: 2%; Electricity from PV, wind turbines, hydraulic turbines: 1%; District cooling: 1%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 96%; Air-cooled chiller: 4%						
	Daily operating time of the cooling system *	t_c	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Autonomous - detached from heating: 30%; Unknown: 23%; Autonomous – coupled with heating: 20%; Centralized – coupled with heating: 15%; District heating: 12%						
	DHW generator	Natural gas boiler: 35%; Electric Heat Pump: 23%; Unknown 23%; Electric boiler: 18%; Solar thermal: 1%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

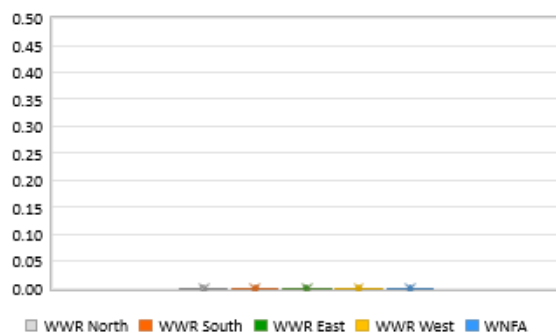
Region:	Trento	Archetype code: OFF_ 1961-1970_F_TN
Building category:	Office buildings	
Period of construction:	1961-1970	
Climatic zone:	F	
Number of records:		105

Numerical variables – GEOMETRY

COMPACTNESS RATIO

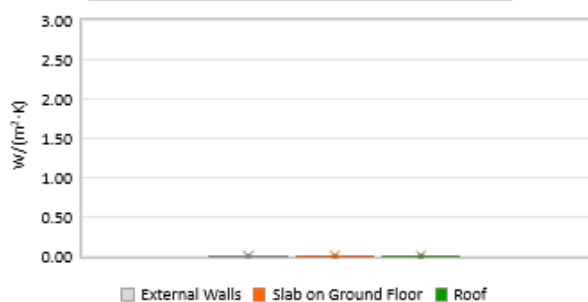


WINDOWS TO WALL RATIO

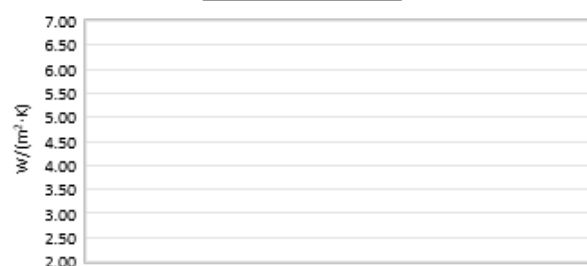


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

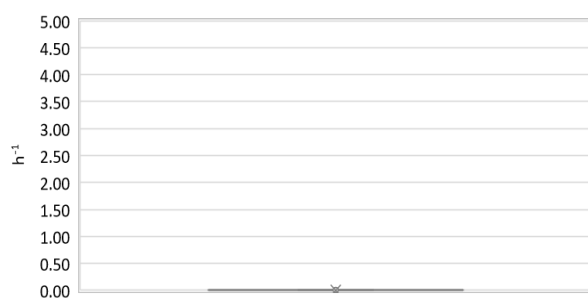


WINDOWS U-VALUE

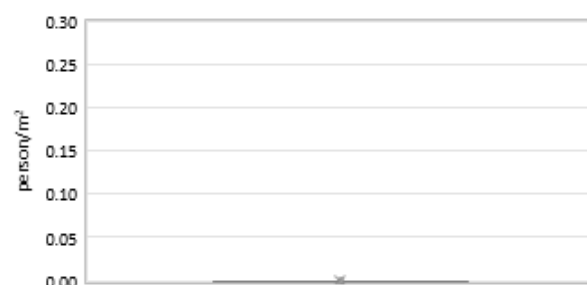


Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

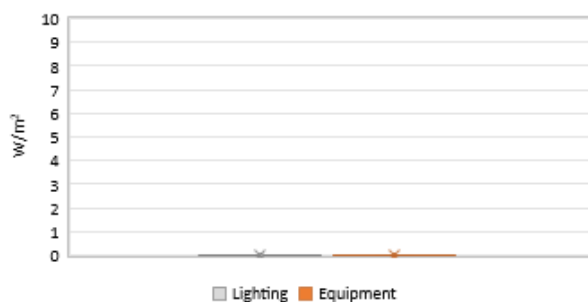
AIR EXCHANGE RATE



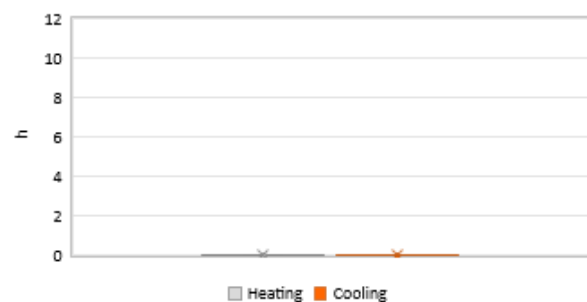
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY

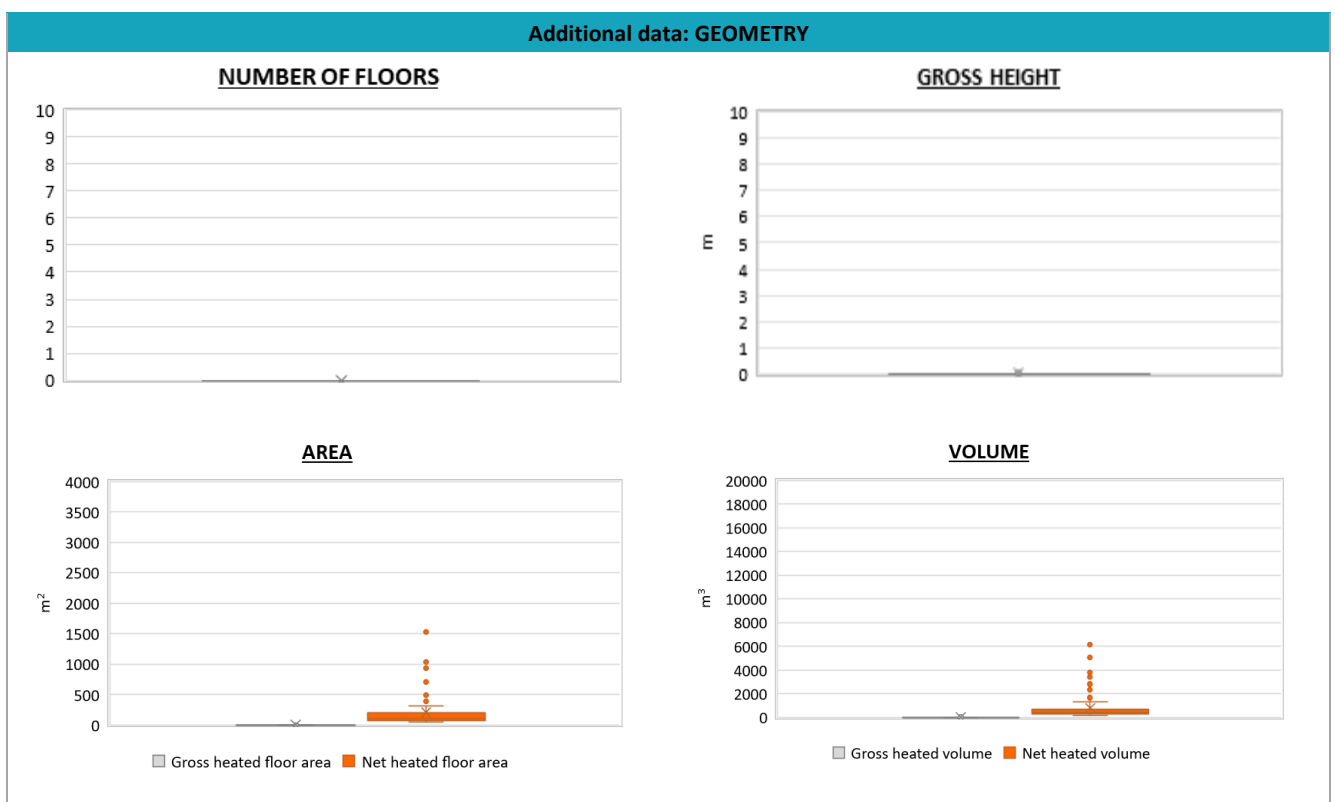


DAILY OPERATING TIME



Region:	Trento	Archetype code: OFF_ 1961-1970_F_TN
Building category:	Office buildings	
Period of construction:	1961-1970	
Climatic zone:	F	
Number of records:		105

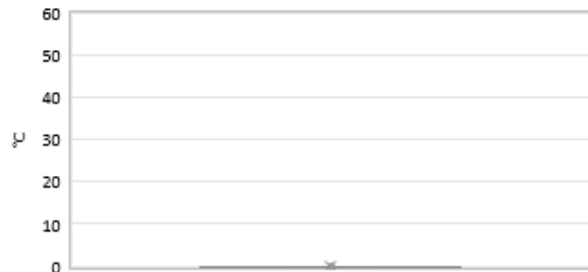
ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or <i>COP</i>	$\eta_{H,gen}$ or $COP_{H,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	$P_{H,gen}$	kW	100	117	29	56	108
	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	9	7	4	10	15
	Temperature of DHW	ϑ_W	°C	-	-	-	-	-
	DHW system power *	$P_{W,gen}$	kW	-	-	-	-	-



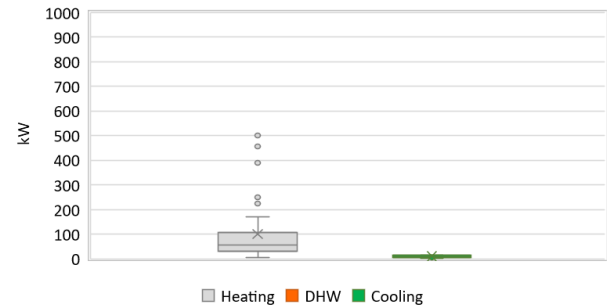
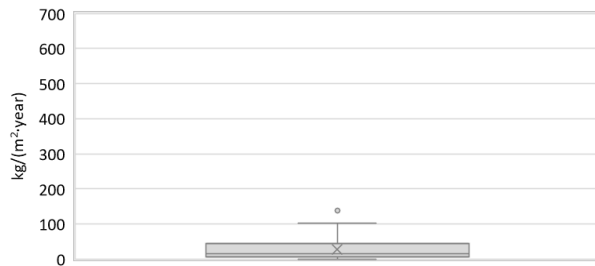
Region:	Trento	Archetype code: OFF_ 1961-1970_F_TN
Building category:	Office buildings	
Period of construction:	1961-1970	
Climatic zone:	F	
Number of records:		105

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

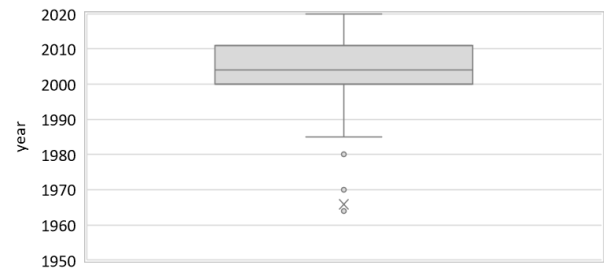
DHW SUPPLY TEMPERATURE



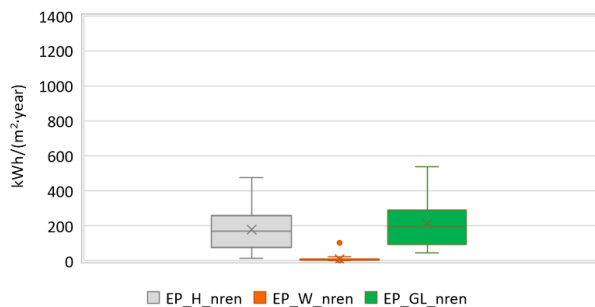
SYSTEM POWER


CO₂ EMISSION


HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

