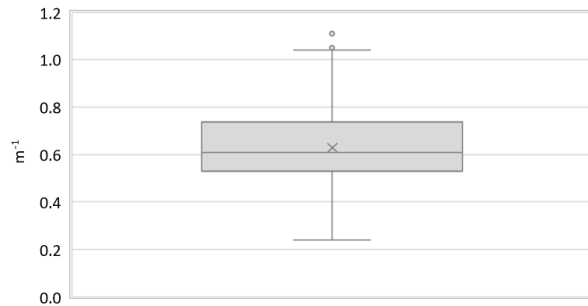


Region:	Trentino						Archetype code: COMM_ 1971-1980_F_TN	
Building category:	Commercial							
Period of construction:	1971-1980							
Climatic zone:	F	Number of records:				211		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External 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	196	247	69	97	183
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	798	1123	276	359	745
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.63	0.18	0.53	0.61	0.74
	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 45%; Centralized: 37%; Autonomous: 18%						
	Heating generator	Boiler (unknown type): 88%; Unknown: 11%; Heat exchanger of district heating/cooling: 1%						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	Natural gas: 42%; Gas Oil: 41%; Solid Biomass: 6%; LPG: 5%; Electricity: 4%; Electricity from PV, wind turbines, hydraulic turbines: 1%; District heating: 1%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 98%; Air-cooled chiller: 2%						
	Daily operating time of the cooling system *	t_c	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Unknown: 34%; Autonomous - detached from heating: 28%; Centralized – coupled with heating: 18%; Autonomous – coupled with heating: 17%; District heating: 3%						
	DHW generator	Natural gas boiler: 38%; Unknown: 25%; Electric heat pump:23%; Electric boiler: 13%; Solar thermal: 1%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

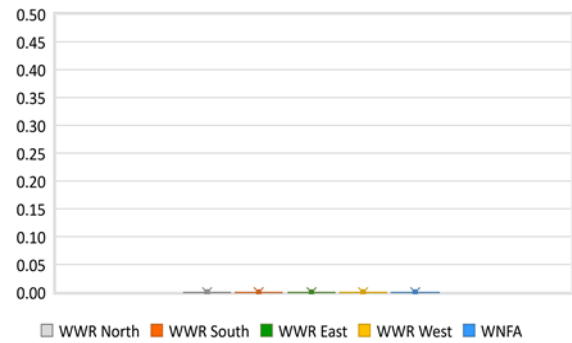
Region:	Trentino	Archetype code: COMM_ 1971-1980_F_TN
Building category:	Commercial	
Period of construction:	1971-1980	
Climatic zone:	F	
Number of records:		211

Numerical variables – GEOMETRY

COMPACTNESS RATIO

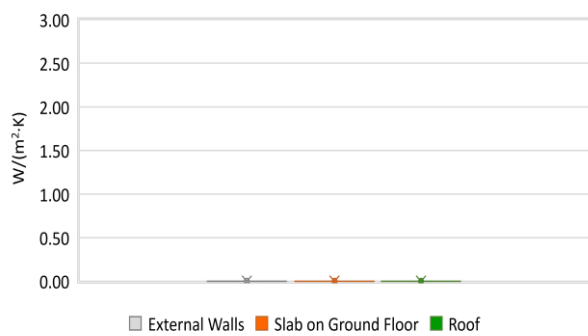


WINDOWS TO WALL RATIO



Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

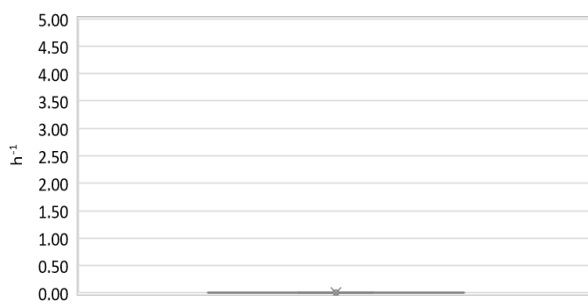


WINDOWS U-VALUE

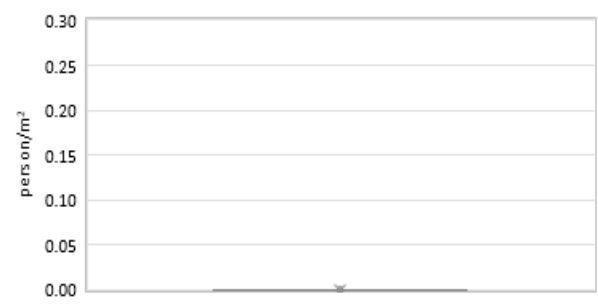


Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

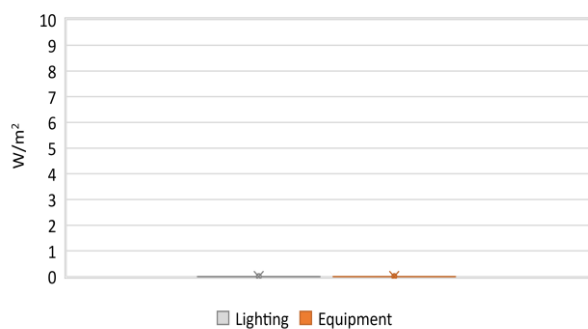
AIR EXCHANGE RATE



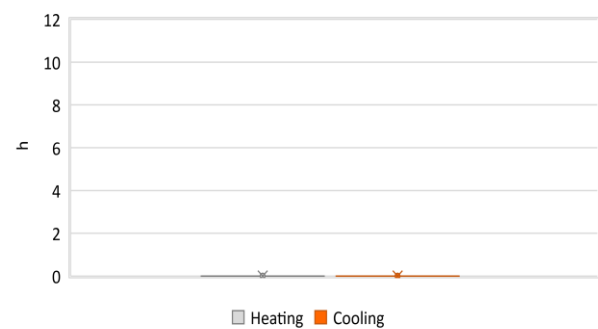
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



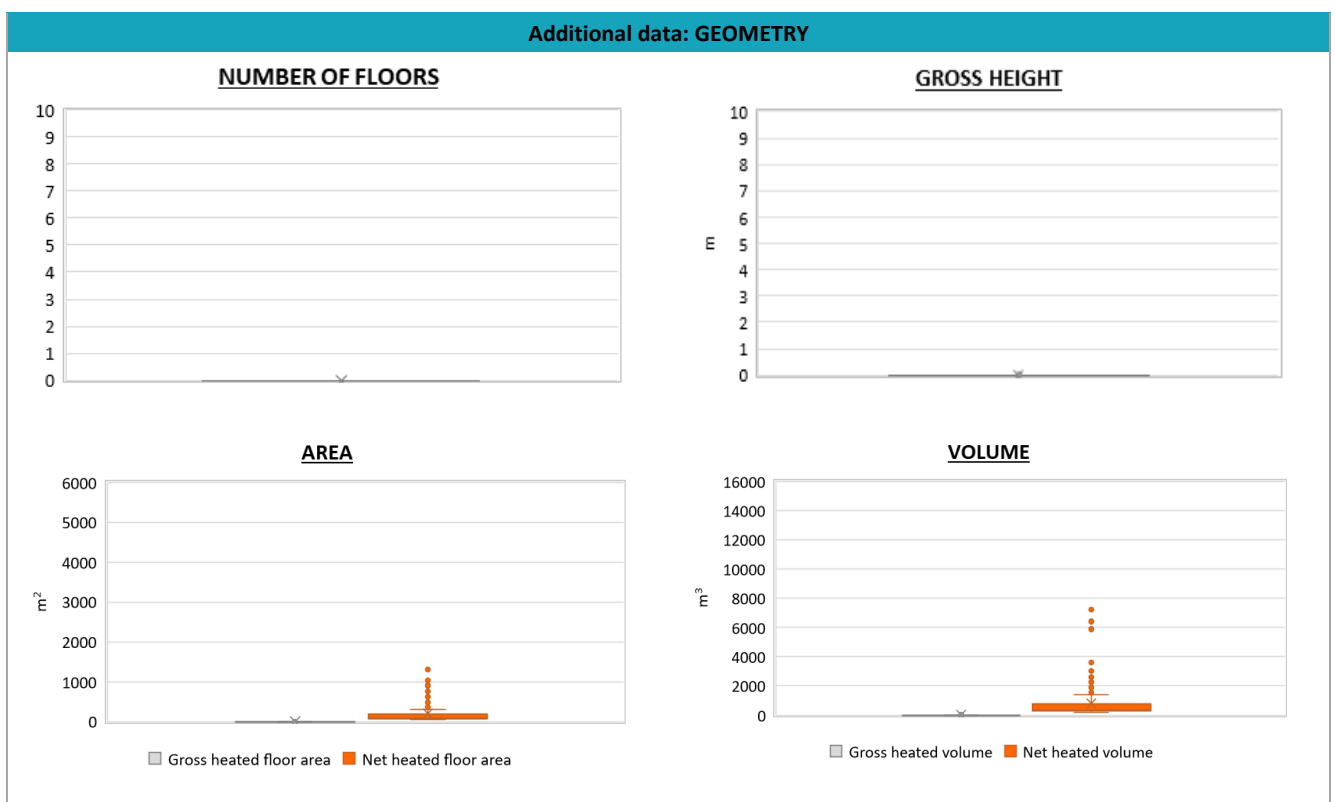
DAILY OPERATING TIME



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	Archetype code: COMM_ 1971-1980_F_TN
Building category:	Commercial	
Period of construction:	1971-1980	
Climatic zone:	F	
Number of records:		211

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	132	298	27	39	119
	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	53	30	25	55	80
	Temperature of DHW	ϑ_W	°C	-	-	-	-	-
	DHW system power	$P_{W,gen}$	kW	101	313	2	27	65



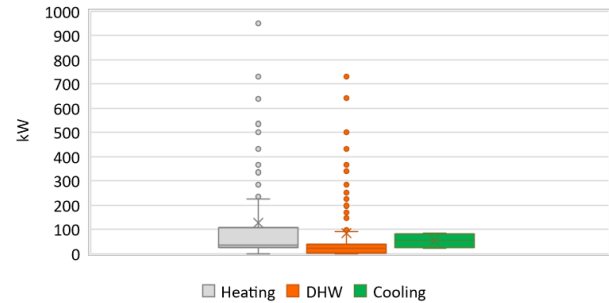
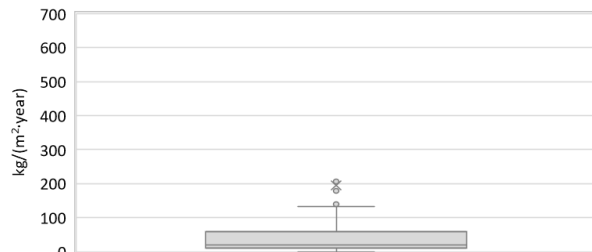
Region:	Trentino	Archetype code: COMM_ 1971-1980_F_TN
Building category:	Commercial	
Period of construction:	1971-1980	
Climatic zone:	F	
Number of records:		211

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

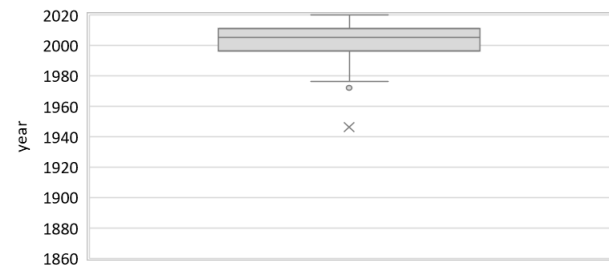
DHW SUPPLY TEMPERATURE



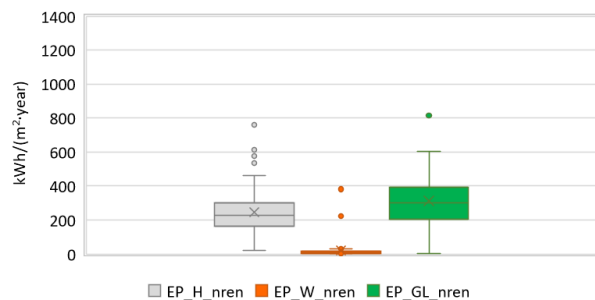
SYSTEM POWER


CO₂ EMISSION


HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

