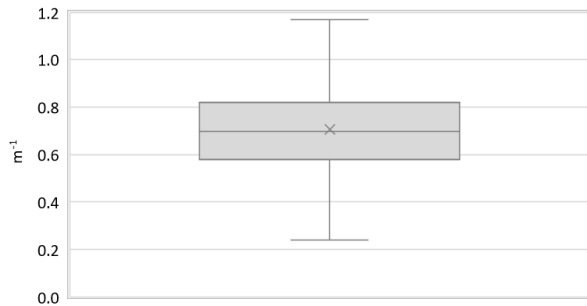


Region:	Trentino						Archetype code: CATR_ 2011-_F_TN	
Building category:	Catering buildings							
Period of construction:	>2011							
Climatic zone:	F	Number of records:		114				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External 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 <sup>2</sup>	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m <sup>2</sup>	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m <sup>2</sup>	263	171	107	169	256
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	1180	703	419	764	1403
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m <sup>-1</sup>	0.71	0.17	0.58	0.70	0.82
	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	$A_{wi}/A_{\text{use}}$	-	-	-	-	-	-
ENVELOPE	Roof type	-						
	U-value of the roof	$U_{\text{fl,up}}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	External walls type	-						
	U-value of the wall	$U_{\text{wl}}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	Slab on ground floor type	-						
	U-value of the floor	$U_{\text{fl,lw}}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	Windows type	-						
	U-value of the windows	$U_{\text{w}}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
GAINS and VENTILATION	Shading system type	-						
	Occupancy density *	$O_c$	person/m <sup>2</sup>	UNI EN 16798-1 - Table A.19				
	Lighting power density *	$W_L$	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3				
	Equipment power density *	$W_A$	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3				
	Type of ventilation	Natural: 100%						
THERMAL SYSTEMS	Air exchange rate *	$n$	h <sup>-1</sup>	UNI EN 16798-1				
	Heating system type	Unknown 46%; Autonomous: 28%; Centralized: 26%						
	Heating generator	Boiler (unknown type): 95%; Air-source heat pump: 3%; Fireplace: 2%;						
	Daily operating time of the heating system *	$t_H$	h	No limitation				
	Energy carrier	Electricity: 50%; District heating: 50%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 93%; Air-cooled chiller: 7%						
	Daily operating time of the cooling system *	$t_C$	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 39%; Unknown: 23%; Autonomous - detached from heating: 18%; Centralized – coupled with heating: 13%; District heating: 7%						
DHW generator	Natural gas boiler: 55%; Electric Heat Pump: 21%; Unknown 17%; Electric boiler: 6%; Solar thermal: 1%							
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

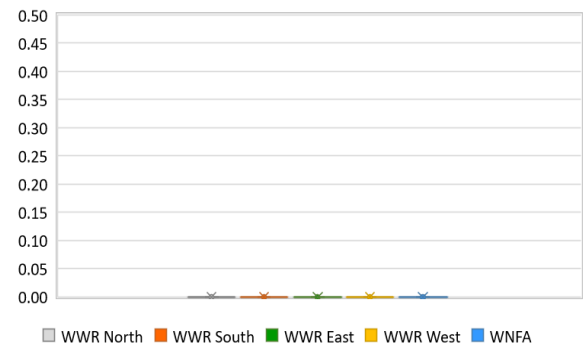
Region:	Trentino	Archetype code: CATR_ 2011-_F_TN
Building category:	Catering buildings	
Period of construction:	>2011	
Climatic zone:	F	
Number of records:		114

## Numerical variables – GEOMETRY

COMPACTNESS RATIO

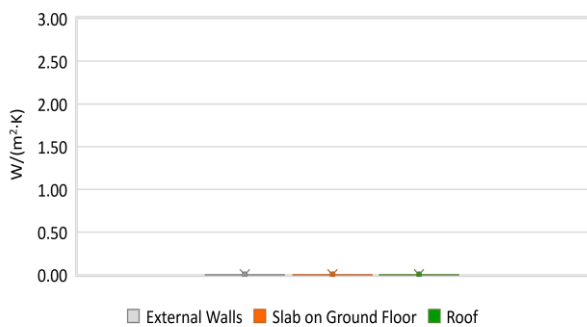


WINDOWS TO WALL RATIO



## Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

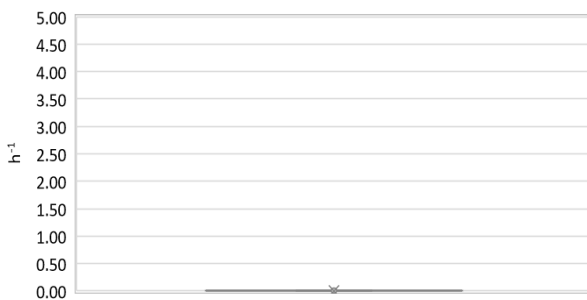


WINDOWS U-VALUE



## Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

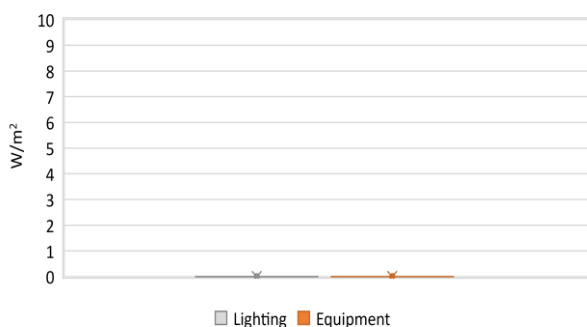
AIR EXCHANGE RATE



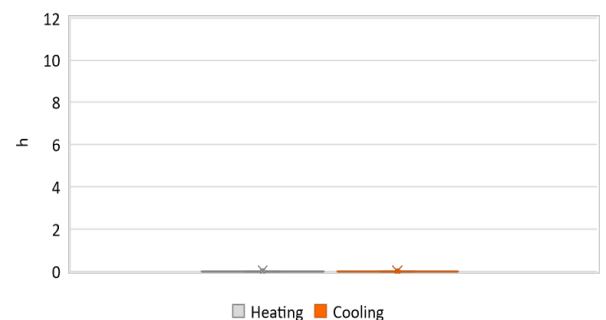
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



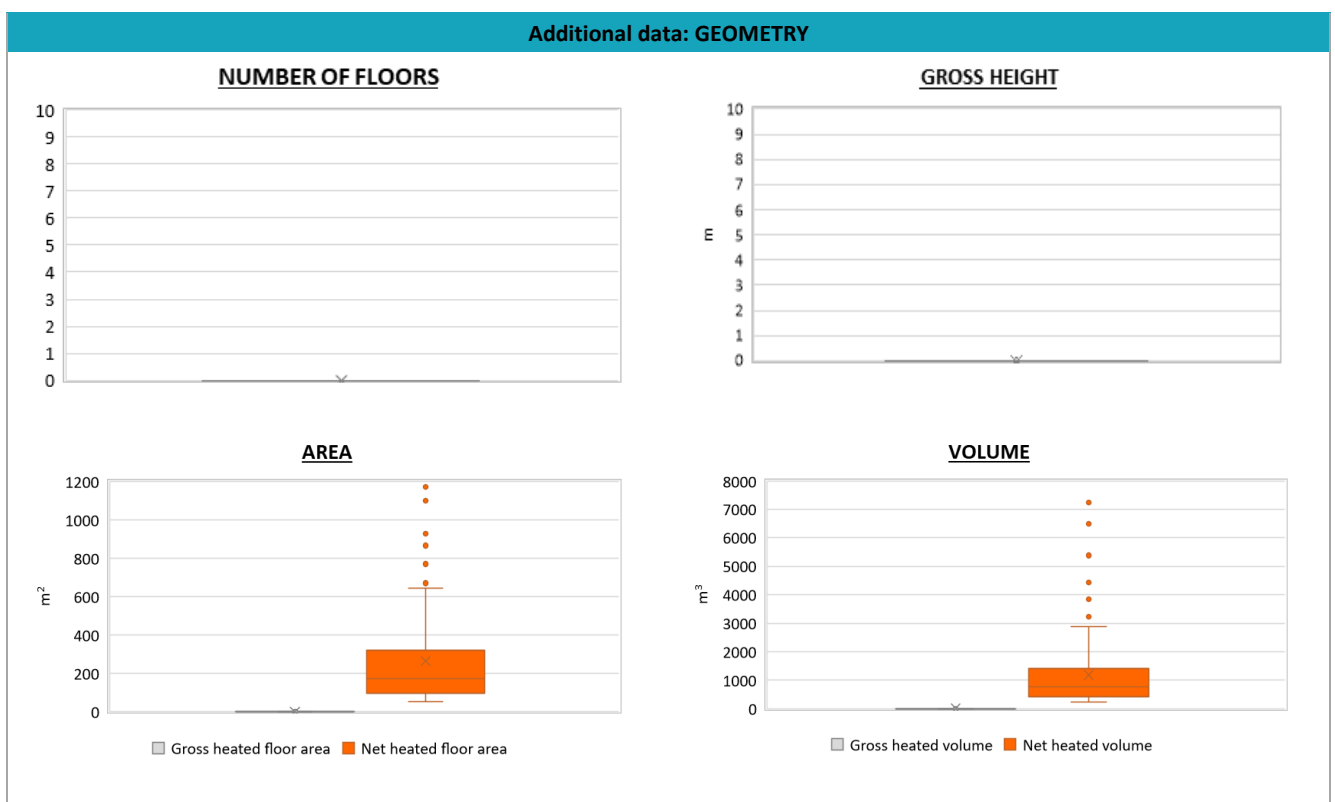
DAILY OPERATING TIME



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.

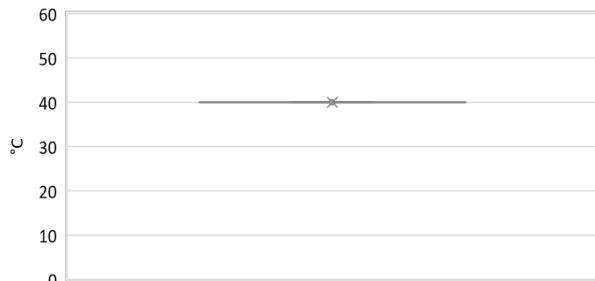
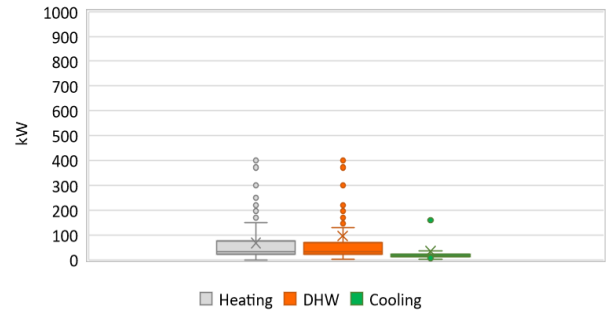
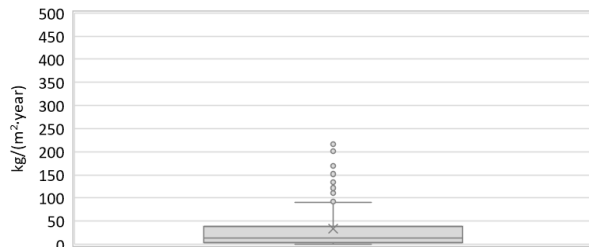
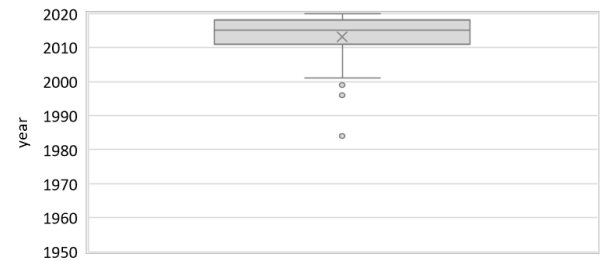
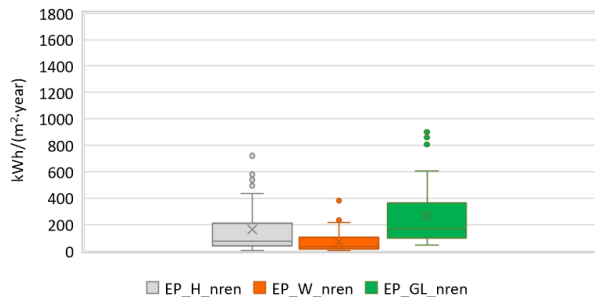
Region:	Trentino	Archetype code: CATR_ 2011-_F_TN
Building category:	Catering buildings	
Period of construction:	>2011	
Climatic zone:	F	
Number of records:		114

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	68	99	25	32	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	34	48	11	16	24
	Temperature of DHW	$\vartheta_W$	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	96	96	22	30	54



<b>Region:</b>	Trentino	<b>Archetype code:</b> CATR_ 2011-_F_TN
<b>Building category:</b>	Catering buildings	
<b>Period of construction:</b>	>2011	
<b>Climatic zone:</b>	F	
<b>Number of records:</b>		114

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

DHW SUPPLY TEMPERATURE

SYSTEM POWER

CO<sub>2</sub> EMISSION

HEATING SYSTEM INSTALLATION YEAR

NON-RENEWABLE PRIMARY ENERGY USE

RENEWABLE PRIMARY ENERGY USE
