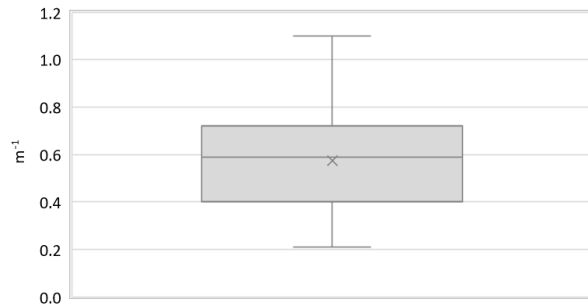


Region:	Trentino						Archetype code: OFF_ 1981-1990_F_TN	
Building category:	Office buildings							
Period of construction:	1981-1990							
Climatic zone:	F	Number of records:				135		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External 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>	268	304	86	1000	298
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	1064	1254	325	358	1170
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m <sup>-1</sup>	0.57	0.21	0.40	0.59	0.72
	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		$U_{fl;up}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
External walls type		-						
U-value of the wall		$U_{wl}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
Slab on ground floor type		-						
U-value of the floor		$U_{fl;lw}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
Windows type		-						
U-value of the windows		$U_W$	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				
	Lighting power density *	$W_L$	W/m <sup>2</sup>	UNI EN 16798-1				
	Equipment power density *	$W_A$	W/m <sup>2</sup>	UNI EN 16798-1				
	Type of ventilation	Natural: 100%						
THERMAL SYSTEMS	Air exchange rate *	$n$	h <sup>-1</sup>	UNI EN 16798-1				
	Heating system type	Centralized: 44%; Unknown 34%; Autonomous: 22%						
	Heating generator	Boiler (unknown type): 92%; Heat exchanger of district heating/cooling: 4%; Unknown: 3%; Fireplace: 1%						
	Daily operating time of the heating system *	$t_H$	h	No limitation				
	Energy carrier	Natural Gas: 55%; Gas Oil: 26%; Solid biomass: 8%; LPG: 6%; District heating: 4%; Electricity: 1%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 91%; Air-cooled chiller: 8%; Water-cooled chiller: 1%						
	Daily operating time of the cooling system *	$t_c$	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 27%; Autonomous - detached from heating: 27%; Centralized – coupled with heating: 21%; Unknown: 19%; District heating: 6%						
	DHW generator	Natural gas boiler: 49%; Electric Heat Pump: 21%; Unknown: 15%; Electric boiler: 15%						
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards							

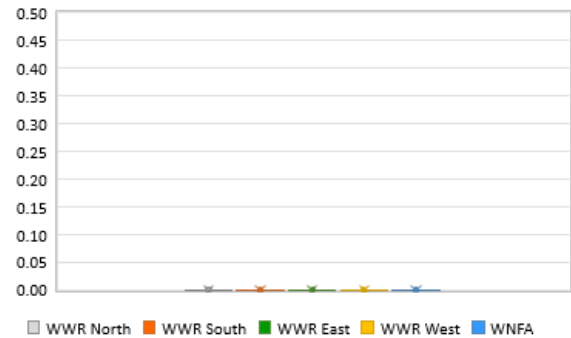
Region:	Trentino	Archetype code: OFF_ 1981-1990_F_TN
Building category:	Office buildings	
Period of construction:	1981-1990	
Climatic zone:	F	
Number of records:		135

### Numerical variables – GEOMETRY

**COMPACTNESS RATIO**

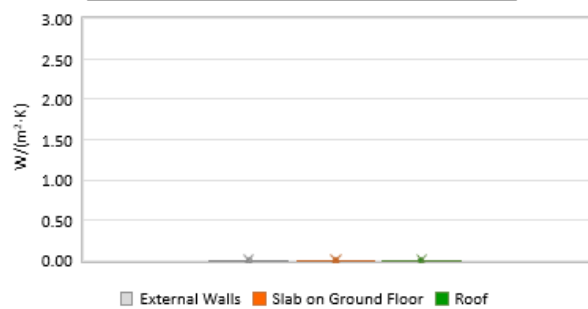


**WINDOWS TO WALL RATIO**

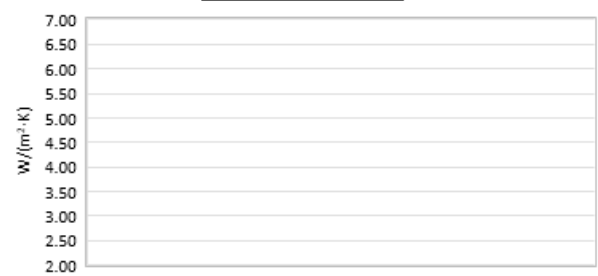


### Numerical variables – ENVELOPE

**OPAQUE BUILDING COMPONENTS U-VALUE**

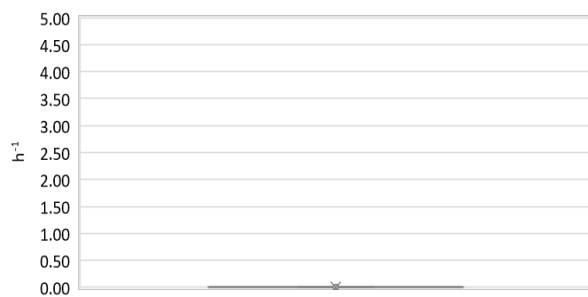


**WINDOWS U-VALUE**



### Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

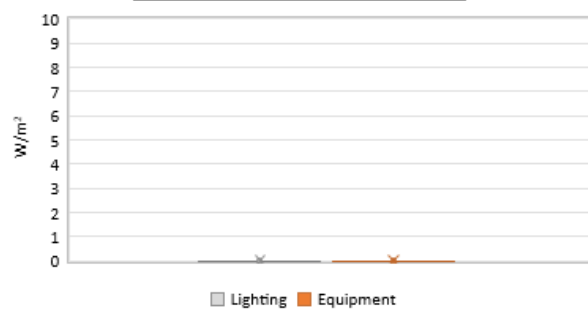
**AIR EXCHANGE RATE**



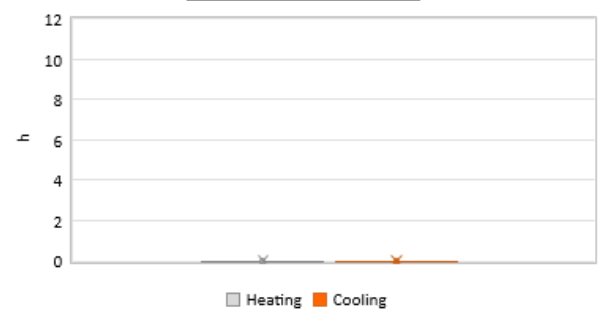
**OCCUPANCY DENSITY**



**INTERNAL GAINS POWER DENSITY**



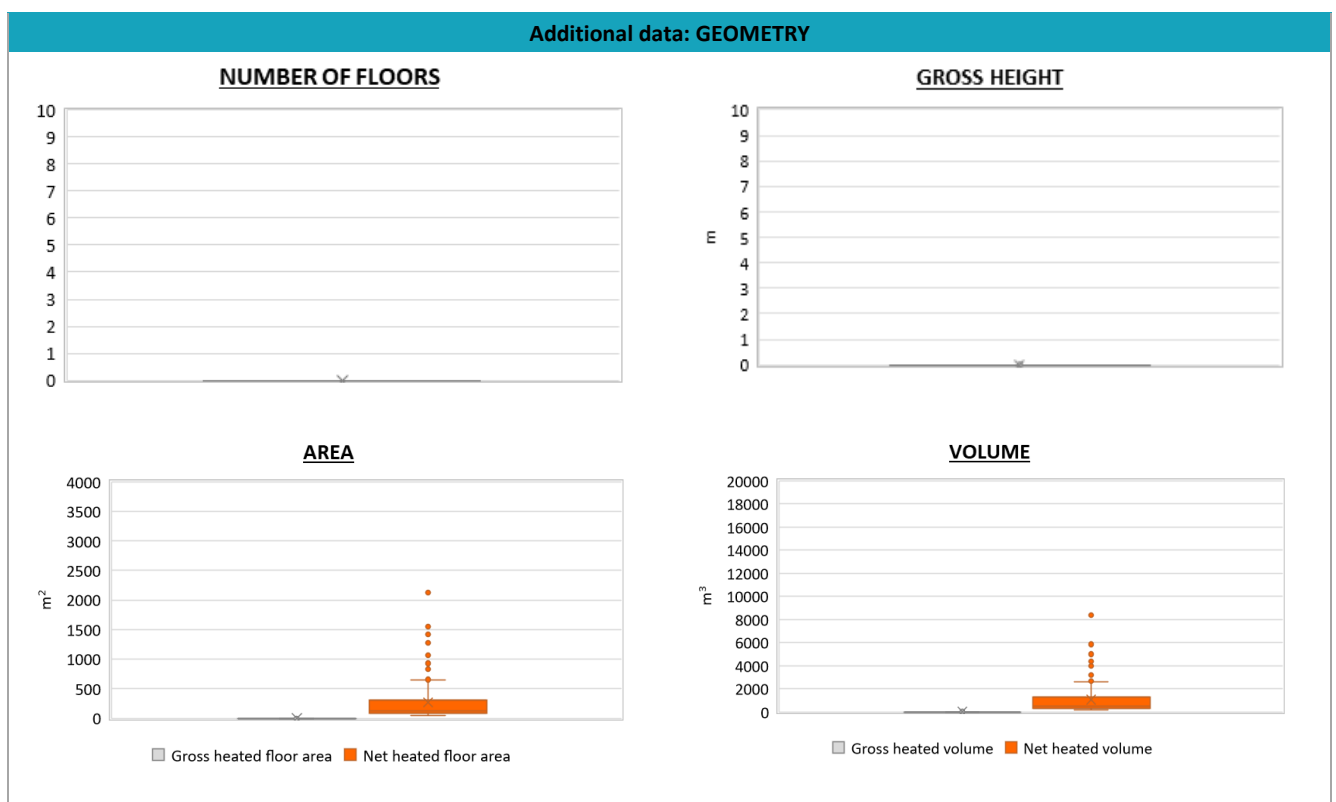
**DAILY OPERATING TIME**



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: OFF_ 1981-1990_F_TN
Building category:	Office buildings			
Period of construction:	1981-1990			
Climatic zone:	F	Number of records:	135	

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	79	105	27	57	109
	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	40	53	7	15	36
	Temperature of DHW	$\vartheta_W$	°C	-	-	-	-	-
	DHW system power	$P_{W,gen}$	kW	-	-	-	-	-



Region:	Trentino	Archetype code: OFF_ 1981-1990_F_TN
Building category:	Office buildings	
Period of construction:	1981-1990	
Climatic zone:	F	
Number of records:		135

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

