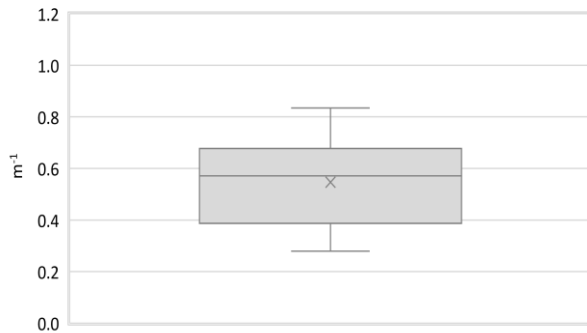


Region:	Trentino Alto Adige					Archetype code: EDUC_1991-2000_E_TN		
Building category:	Educational buildings							
Period of construction:	1991-2000							
Climatic zone:	E	Number of records:		35				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: no data available Roof slabs: no data available						Data sources: APE (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	1412	1108	472	1148	1847
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	6676	5638	2079	4632	8872
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.55	0.16	0.40	0.57	0.67
	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	$U_{fi,up}$	W/(m ² ·K)	-	-	-	-	-
	External walls type	-						
	U-value of the wall	U_{wi}	W/(m ² ·K)	-	-	-	-	-
	Slab on ground floor type	-						
	U-value of the floor	$U_{fi,lw}$	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	UNI EN 16798-1				
THERMAL SYSTEMS	Heating system type	Autonomous: 14%, Centralized: 43%, , Unknown: 43%						
	Heating generator	Traditional boiler: 14%, Condensing boiler: 17%, Boiler (Unknown type): 57%, DHC: 9%, Unknown: 3%						
	Daily operating time of the heating system *	t_H	h	14	0	14	14	14
	Energy carrier	Natural gas: 100%						
	Heating emission sub-system	-						
	Cooling system type	Air-cooled chiller: 9%, Unknown: 91%						
	Daily operating time of the cooling system *	t_C	h	0	0	0	0	0
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 26%, Autonomous - detached from heating: 17%, Centralized – coupled with heating: 34%, District heating: 3%, Unknown: 20%						
	DHW generator	Natural gas boiler: 65%, Electric heat pump: 9%, Unknown: 29%						
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards							

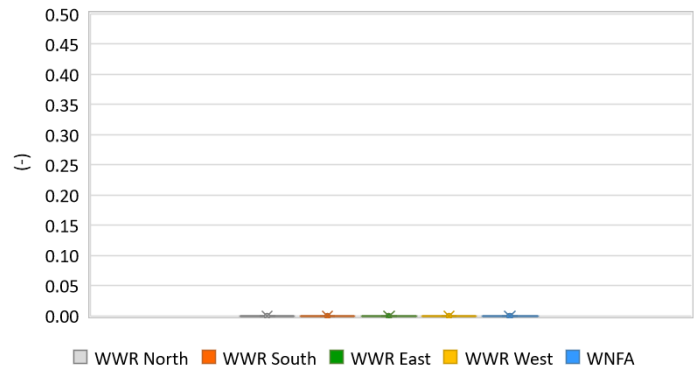
Region:	Trentino Alto Adige	Archetype code: EDUC_1991-2000_E_TN
Building category:	Educational buildings	
Period of construction:	1991-2000	
Climatic zone:	E	
Number of records:		35

Numerical variables – GEOMETRY

COMPACTNESS RATIO

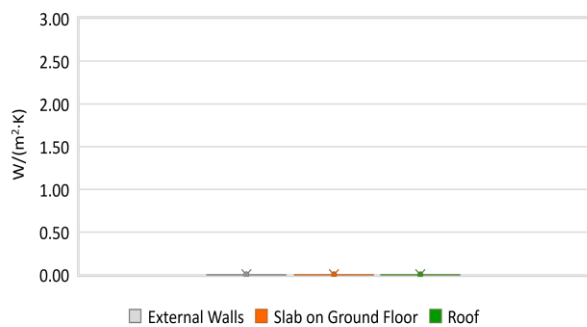


WINDOWS TO WALL RATIO



Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

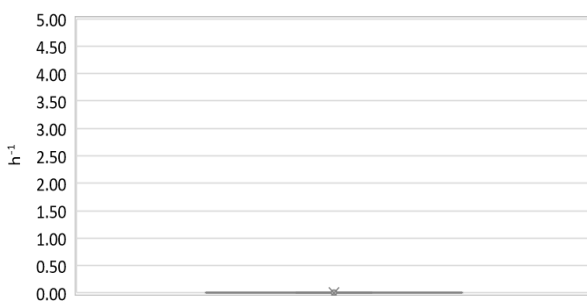


WINDOWS U-VALUE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

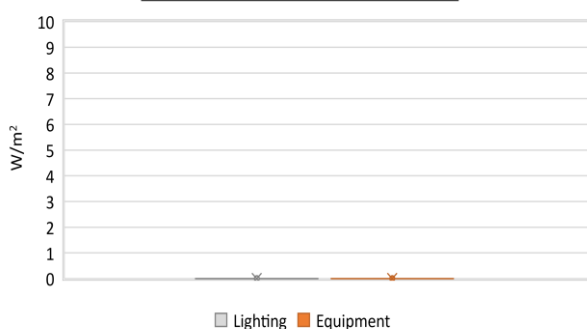
AIR EXCHANGE RATE



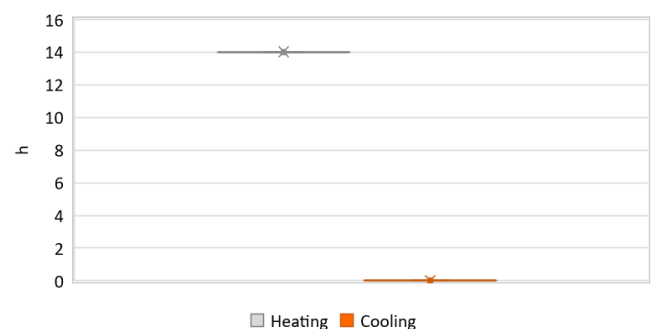
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



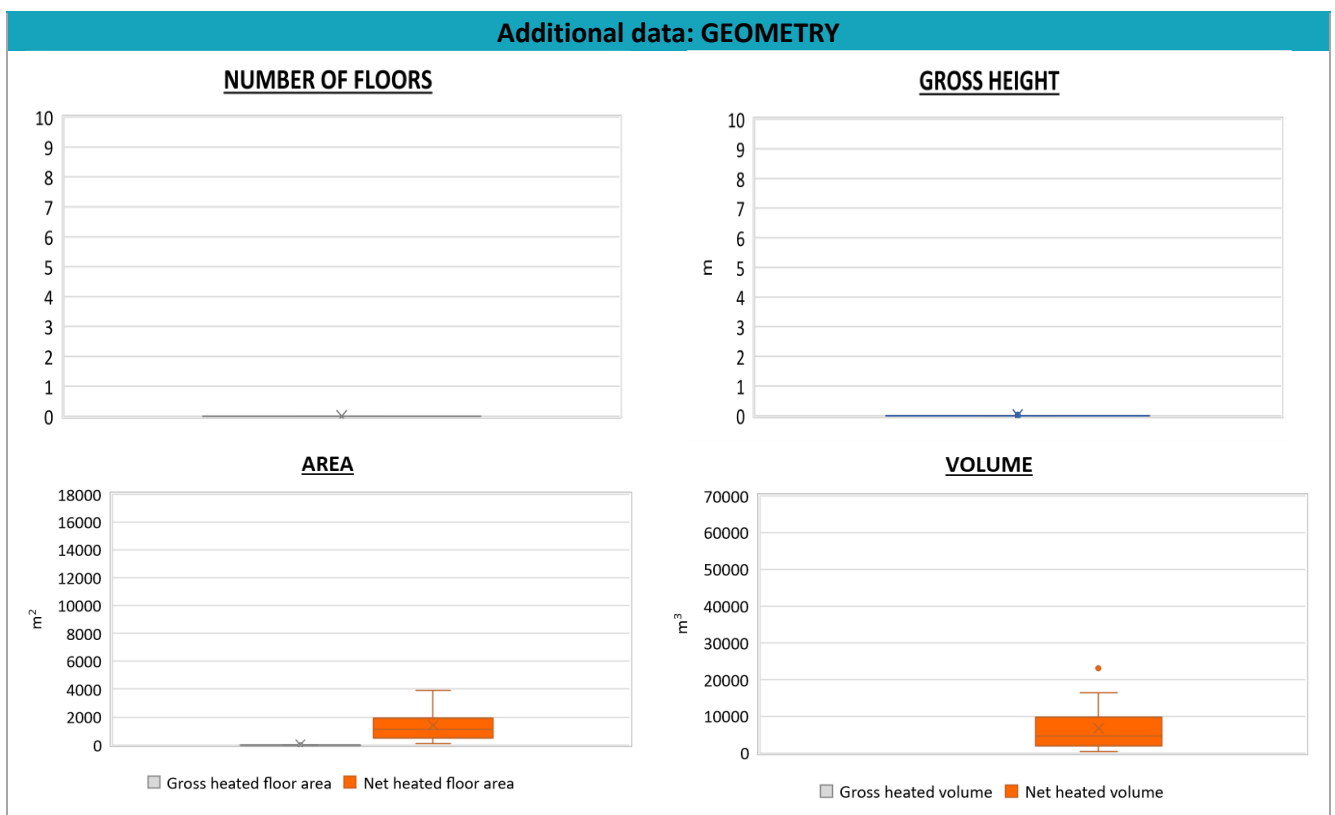
DAILY OPERATING TIME



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 Alto Adige			Archetype code: EDUC_1991-2000_E_TN
Building category:	Educational buildings			
Period of construction:	1991-2000			
Climatic zone:	E	Number of records:	35	

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	195	191	43	113	300
	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	43	40	8	37	57
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	195	191	43	113	300



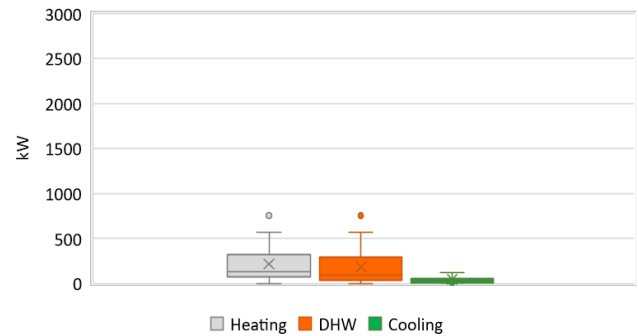
Region:	Trentino Alto Adige	Archetype code: EDUC_1991-2000_E_TN
Building category:	Educational buildings	
Period of construction:	1991-2000	
Climatic zone:	E	
Number of records:		35

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

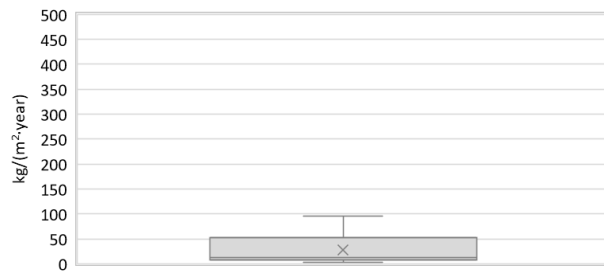
DHW SUPPLY TEMPERATURE



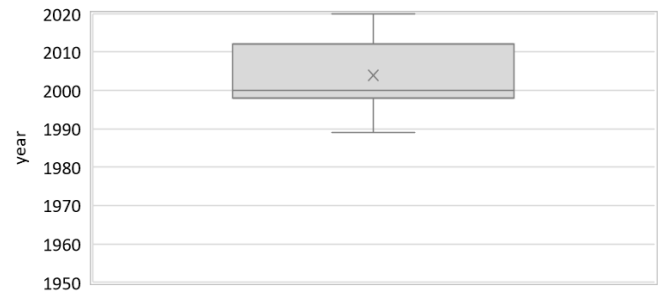
SYSTEM POWER



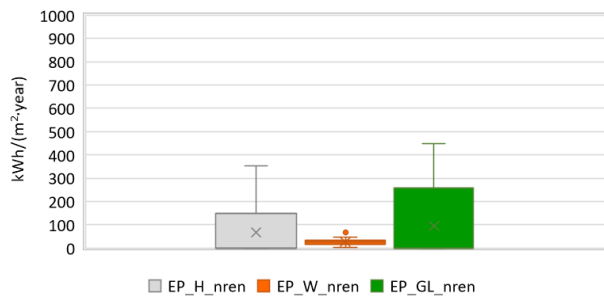
CO₂ EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

