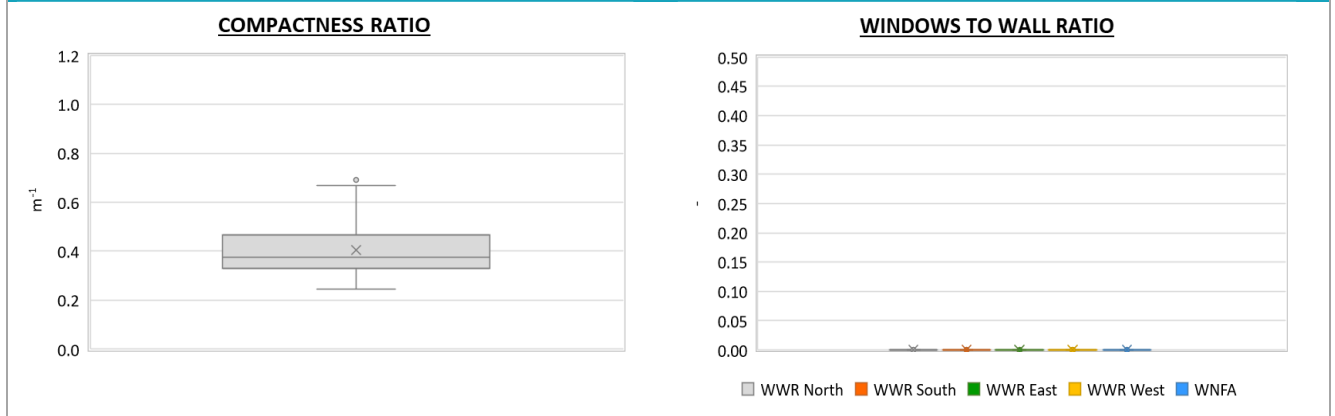


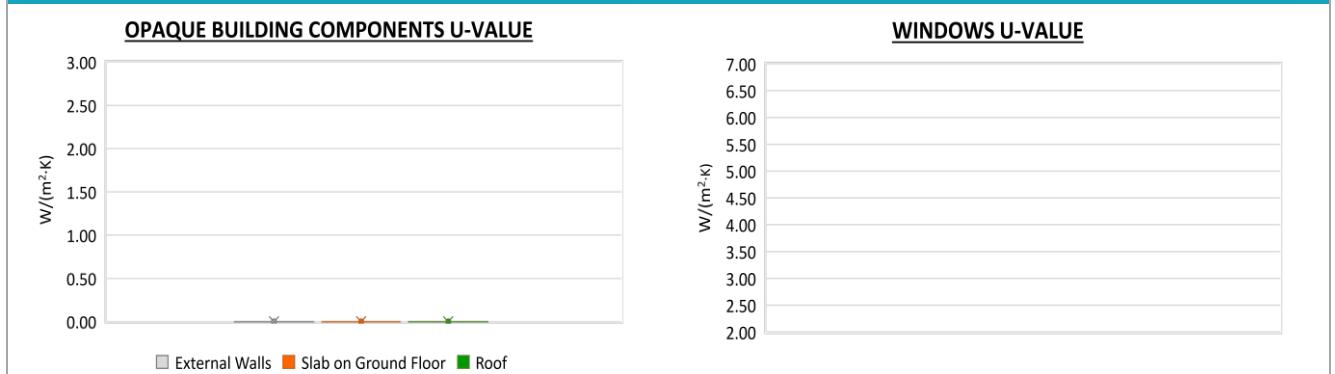
Region:	Trentino Alto Adige						Archetype code: EDUC_-1930_E_TN	
Building category:	Educational buildings							
Period of construction:	<1930							
Climatic zone:	E	Number of records:				92		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): 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	2815	2934	915	1702	3564
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	14527	15067	4723	8493	16657
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.41	0.11	0.33	0.38	0.46
	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_{wl}	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)	-	-	-	-	-
GAINS and VENTILATION	Shading system type	-						
	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%						
THERMAL SYSTEMS	Air exchange rate *	n	h ⁻¹	UNI EN 16798-1				
	Heating system type	Unknown: 44%, Centralized: 33%, Autonomous: 23%						
	Heating generator	Boiler (Unknown): 55%, Condensing boiler: 23%, Heat exchanger of district heating/cooling: 11%, Traditional boiler: 8%, Unknown: 2%, Air source heat pump: 1%						
	Daily operating time of the heating system *	t_H	h	14	-	14	14	14
	Energy carrier	Natural gas: 87%, District heating: 8%, Gas Oil: 2%, LPG: 1%, Solid biomass: 1%, Electricity: 1%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 76%, Air-cooled chiller: 19%, Water-cooled chiller: 5%						
	Daily operating time of the cooling system *	t_C	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Autonomous - detached from heating: 32%, Unknown: 23%, Centralized - coupled with heating: 23%, Autonomous - coupled with heating: 22%, DHC: 3%						
DHW generator	Natural gas boiler: 46%, Unknown: 21%, Electric boiler: 18%, Electric Heat Pump: 15%							
* These values were not available in the considered sources, and are thus derived from NI EN Standards								

Region:	Trentino Alto Adige	Archetype code: EDUC_-1930_E_TN
Building category:	Educational buildings	
Period of construction:	<1930	
Climatic zone:	E	
Number of records:		92

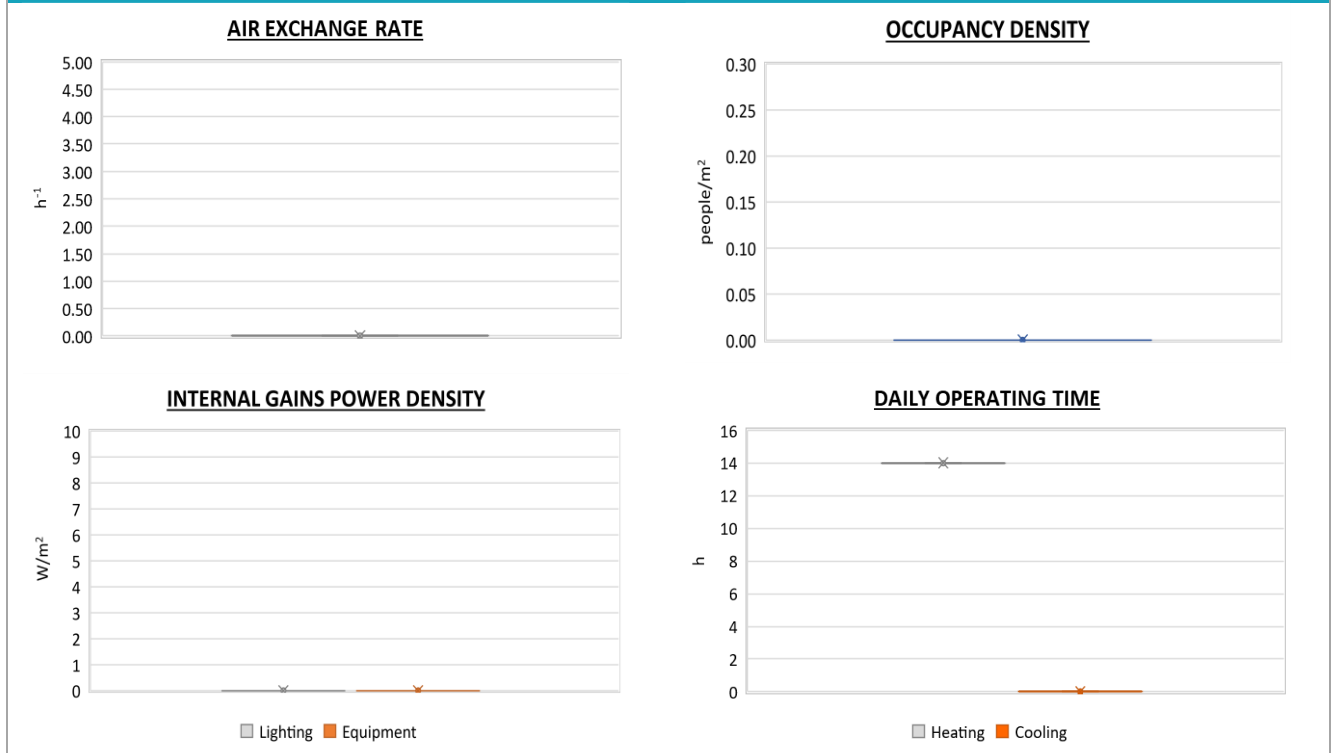
Numerical variables – GEOMETRY



Numerical variables – ENVELOPE



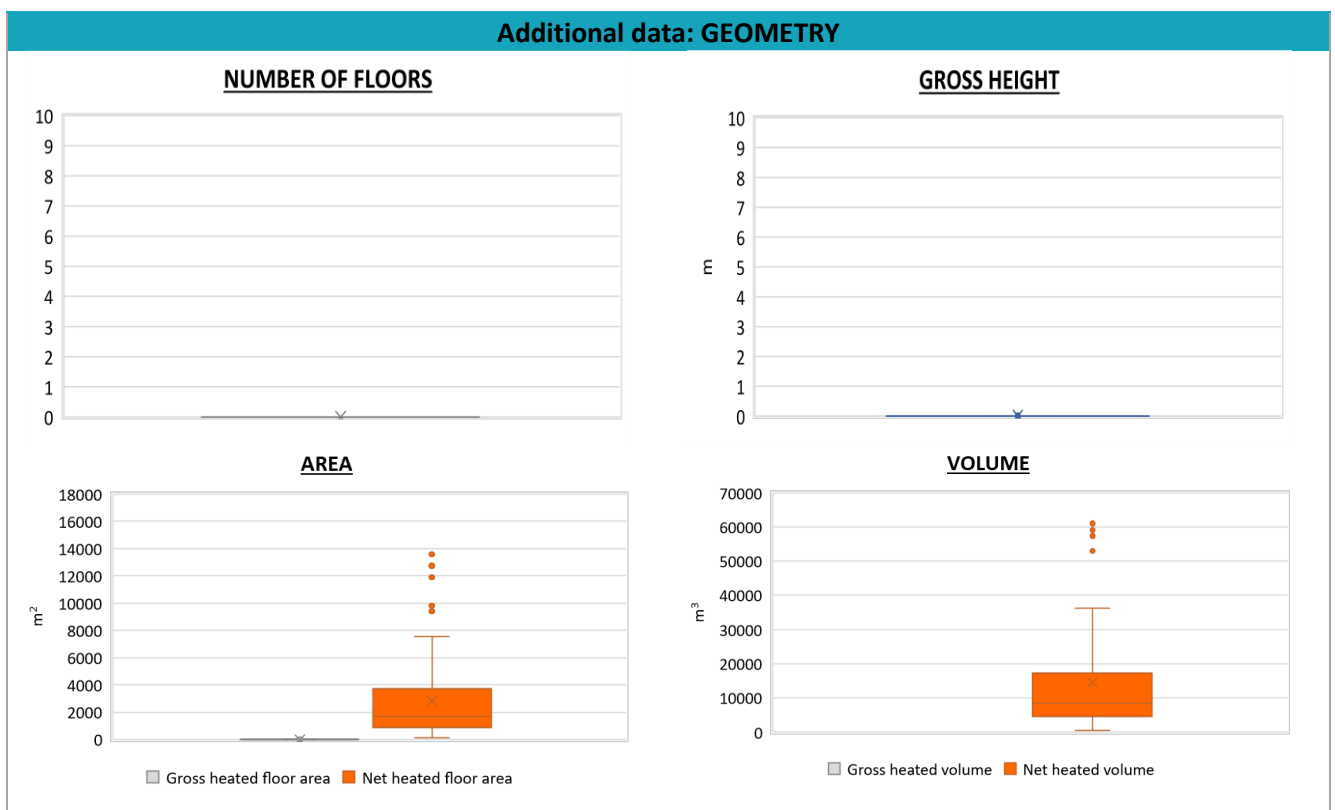
Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



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-1930_E_TN
Building category:	Educational buildings	
Period of construction:	<1930	
Climatic zone:	E	
Number of records:		92

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	223	251	33	150	313
	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	271	300	38	164	404
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W,gen}$	kW	177	241	5	114	229



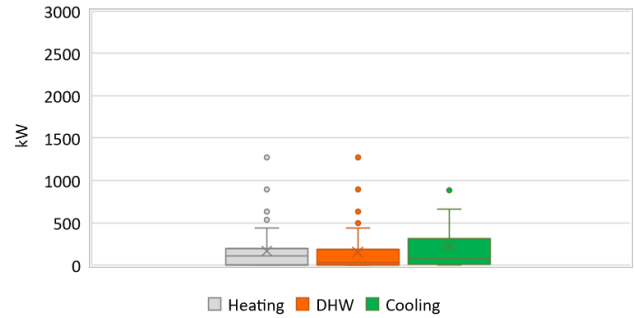
Region:	Trentino Alto Adige	Archetype code: EDUC_-1930_E_TN
Building category:	Educational buildings	
Period of construction:	<1930	
Climatic zone:	E	
Number of records:		298

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

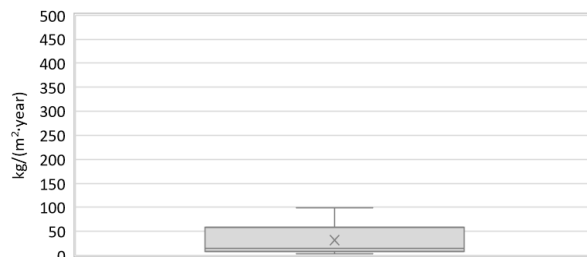
DHW SUPPLY TEMPERATURE



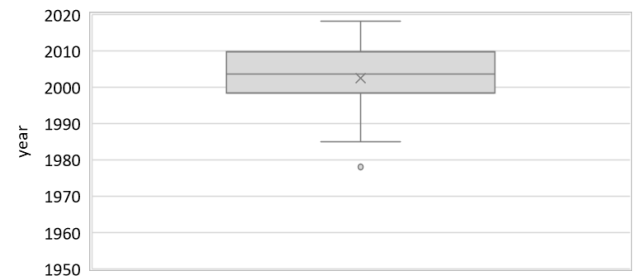
SYSTEM POWER



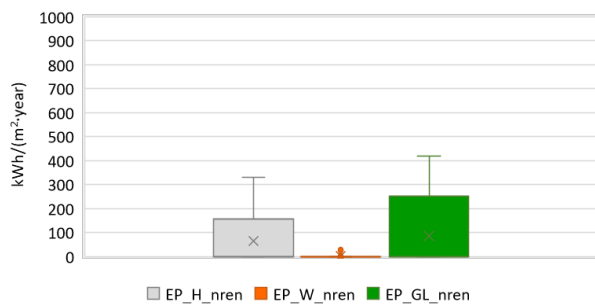
CO₂ EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

