Region:	Trentino			**Archetype code:**
Building category:	Educational			EDUC_ 1991-2000_F_TN
Period of construction:	1991-2000			
Climatic zone:	F	**Number of records:**	25	

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	$A_{footprint}$	m^2	-	-	-	-	-
	Heated gross floor area	$A_{H;g}$	m^2	-	-	-	-	-
	Heated net floor area	$A_{H;n}$	m^2	1074	981	516	777	1400
	Heated gross volume	$V_{H;g}$	m^3	-	-	-	-	-
	Heated net volume	$V_{H;n}$	m^3	4772	4185	2213	3760	7122
	Compactness ratio	$A_{env}/V_{H;g}$	m^{-1}	0.49	0.17	0.39	0.45	0.54
	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	$U_{fl;up}$	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	$U_{fl;lw}$	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	Centralized: 60%; Unknown 24%; Autonomous: 16%						
	Heating generator	Boiler (unknown type): 96%; Heat exchanger of district heating/cooling: 4%						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	Natural gas 52%; Solid biomass: 20%; Gas oil: 16%; LPG: 8%; District heating: 4%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 100%						
	Daily operating time of the cooling system *	t_C	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Centralized – coupled with heating: 28%; Autonomous – coupled with heating: 24%; District heating: 16%; Autonomous - detached from heating: 16%; Unknown: 16%						
	DHW generator	Natural gas boiler: 69%; Electric Heat Pump: 19%; Electric boiler: 6%; Unknown 6%						

* These values were not available in the considered sources, and are thus derived from UNI EN Standards

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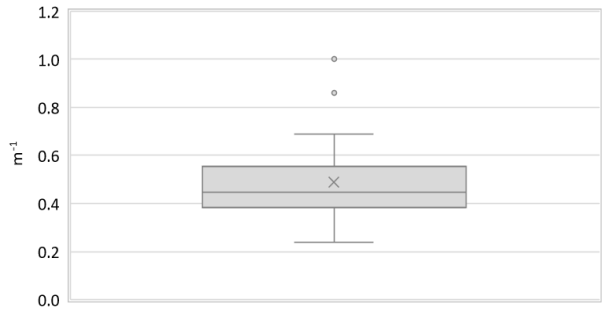
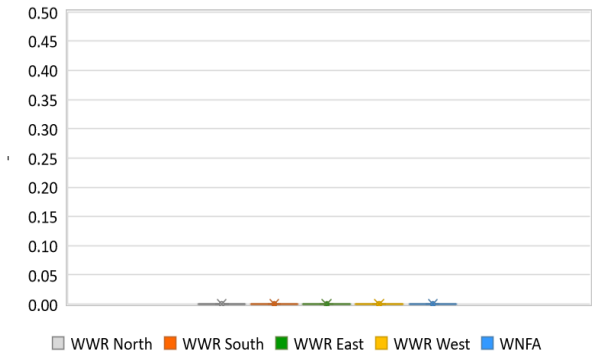
Numerical variables – GEOMETRY

COMPACTNESS RATIO

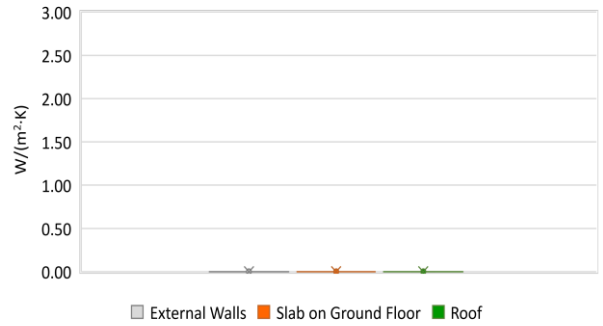


WINDOWS TO WALL RATIO

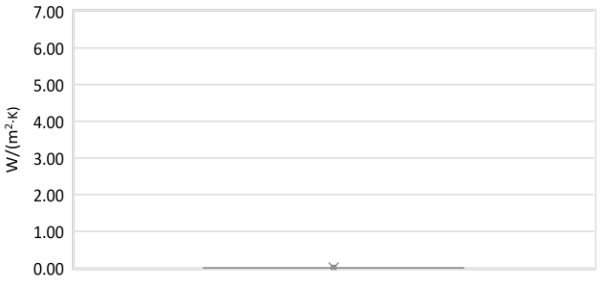


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

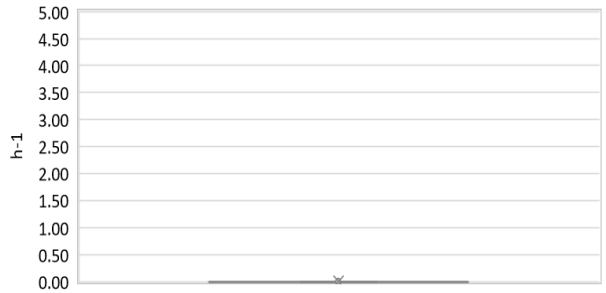


WINDOWS U-VALUE



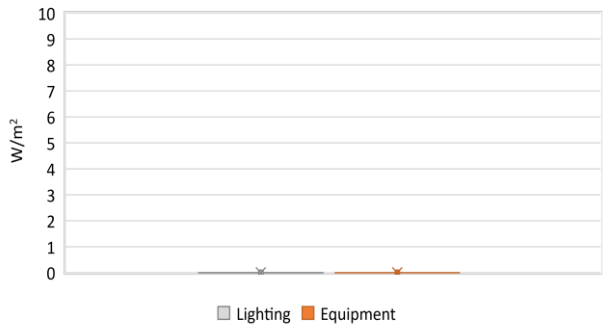
Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE

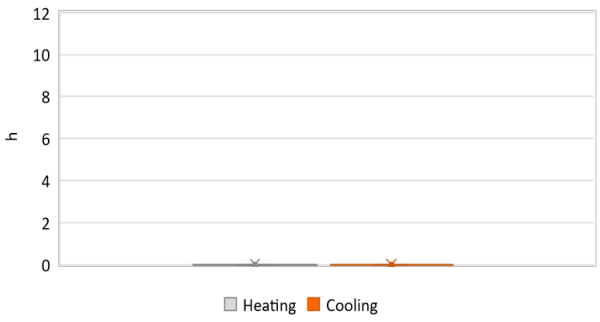


OCCUPANCY DENSITY

INTERNAL GAINS POWER DENSITY



DAILY OPERATING TIME

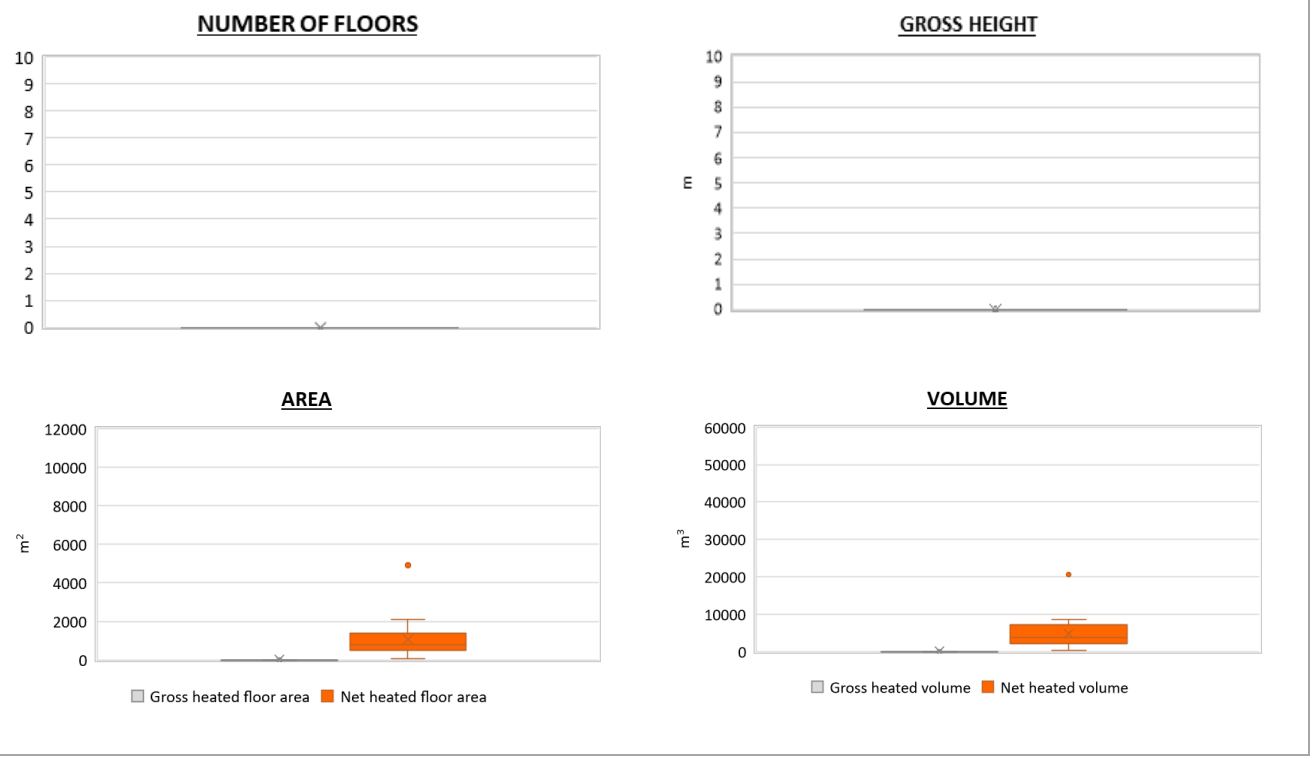


Region:	Trentino			**Archetype code:**
Building category:	Educational			EDUC_ 1991-2000_F_TN
Period of construction:	1991-2000			
Climatic zone:	F	**Number of records:**	25	

ADDITIONAL DATA

	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or *COP*	$\eta_{H;gen}$ or $COP_{H;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power	$P_{H;gen}$	kW	145	112	57	100	200
	Cooling efficiency or *EER*	$\eta_{C;gen}$ or $EER_{C;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	$P_{C;gen}$	kW	-	-	-	-	-
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W;gen}$	kW	104	103	33	63	182

Additional data: GEOMETRY

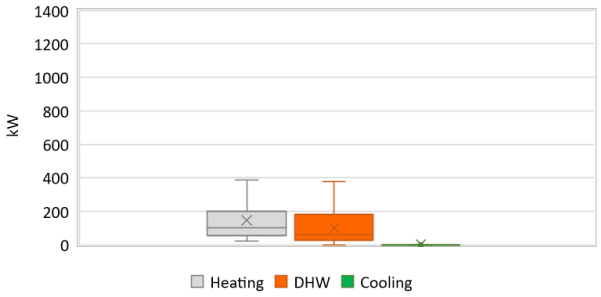


Region:	Trentino			**Archetype code:**
Building category:	Educational			EDUC_ 1991-2000_F_TN
Period of construction:	1991-2000			
Climatic zone:	F	**Number of records:**	25	

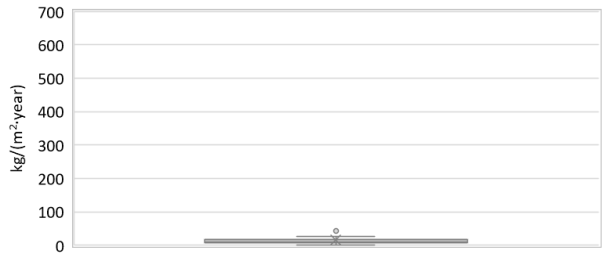
Additional data: other numerical variables that are not included in the archetype

DHW SUPPLY TEMPERATURE

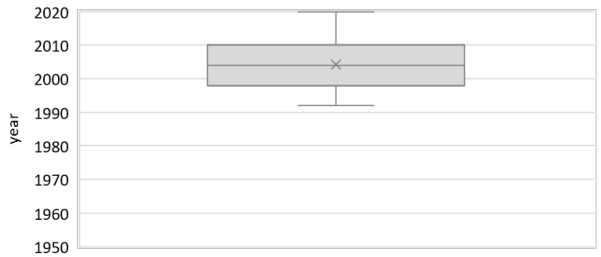
SYSTEM POWER



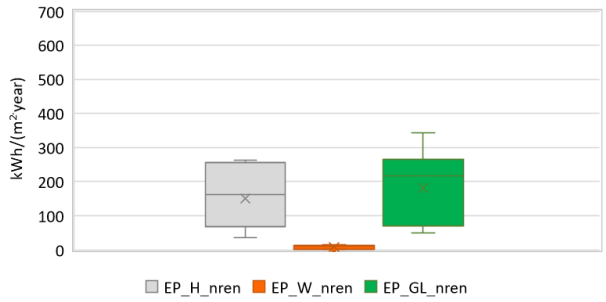
CO_2 EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE