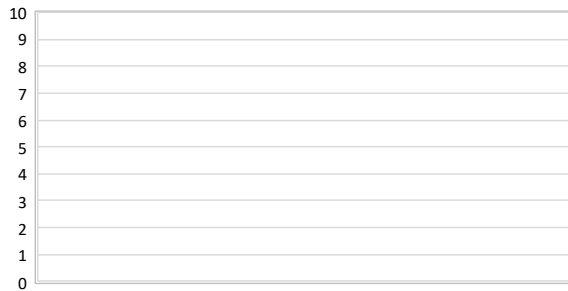


Region:	Piedmont						Archetype code: EDUC_1981-2000_F_PIE	
Building category:	Non-residential buildings - Educational buildings							
Period of construction:	1981-2000							
Climatic zone:	F	Number of records:				6		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: hollow brick masonry with thermal insulation (cod. MCV02). Roof slabs: insulated reinforced concrete floor slab for walkable flat roof (cod. COP03), for pitched roof (cod. CIN03) or insulated wooden floor slab for pitched roof (cod. CIN02).							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 ²	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m ²	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m ²	3086.4	3419.9	486.8	1745.2	4850.1
	Heated gross volume	$V_{H,g}$	m ³	14030.8	16988.8	1978.8	5989.1	22323.7
	Heated net volume	$V_{H,n}$	m ³	-	-	-	-	-
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.54	0.21	0.36	0.52	0.71
	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}	-	0.14	0.02	0.12	0.14	0.16
ENVELOPE	Roof type	-						
	U-value of the roof	$U_{f,up}$	W/(m ² ·K)	-	-	-	-	-
	External walls type	Hollow brick masonry: 83%; Solid Brick masonry: 17%						
	U-value of the wall	U_{wl}	W/(m ² ·K)	-	-	-	-	-
	Slab on ground floor type	-						
	U-value of the floor	$U_{f,lw}$	W/(m ² ·K)	-	-	-	-	-
	Windows type	-						
	U-value of the windows	U_w	W/(m ² ·K)	2.59	1.30	1.89	3.23	3.47
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	-						
	Air exchange rate *	n	h ⁻¹	-	-	-	-	-
THERMAL SYSTEMS	Heating system type	Autonomous: 100%						
	Heating generator	-						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	Natural Gas: 100%						
	Heating emission sub-system	-						
	Cooling system type	-						
	Daily operating time of the cooling system *	t_C	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Centralized, coupled with heating: 100%						
	DHW generator	-						
	* These values are derived from UNI EN ISO Standards							

Region:	Piedmont			Archetype code: EDUC_1981-2000_F_PIE
Building category:	Non-residential buildings - Educational buildings			
Period of construction:	1981-2000			
Climatic zone:	F	Number of records:	6	

Numerical variables – GEOMETRY

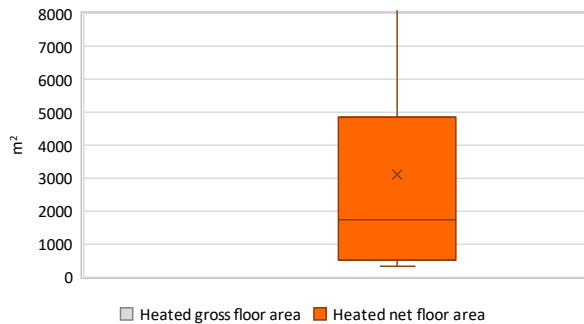
NUMBER OF FLOORS



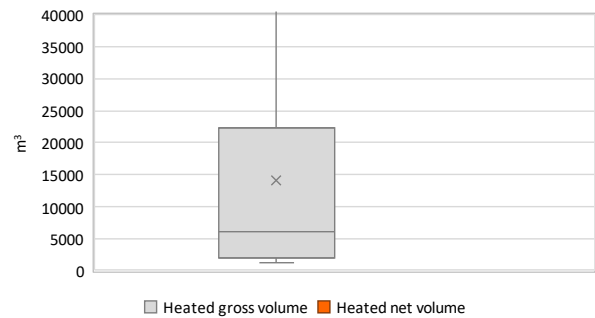
GROSS HEIGHT



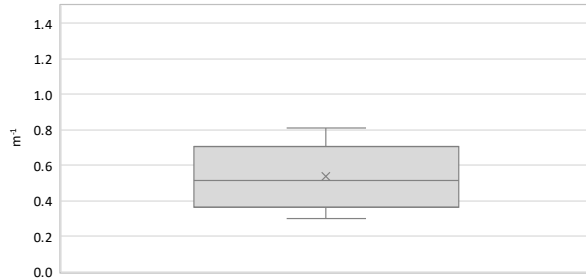
AREA



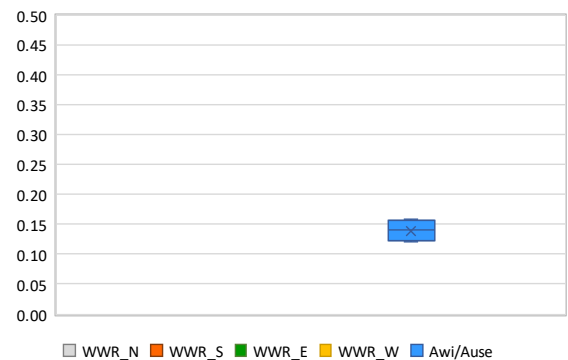
VOLUME



COMPACTNESS RATIO



WINDOWS TO WALL RATIO

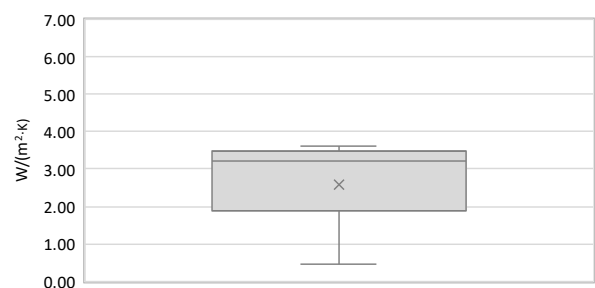


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

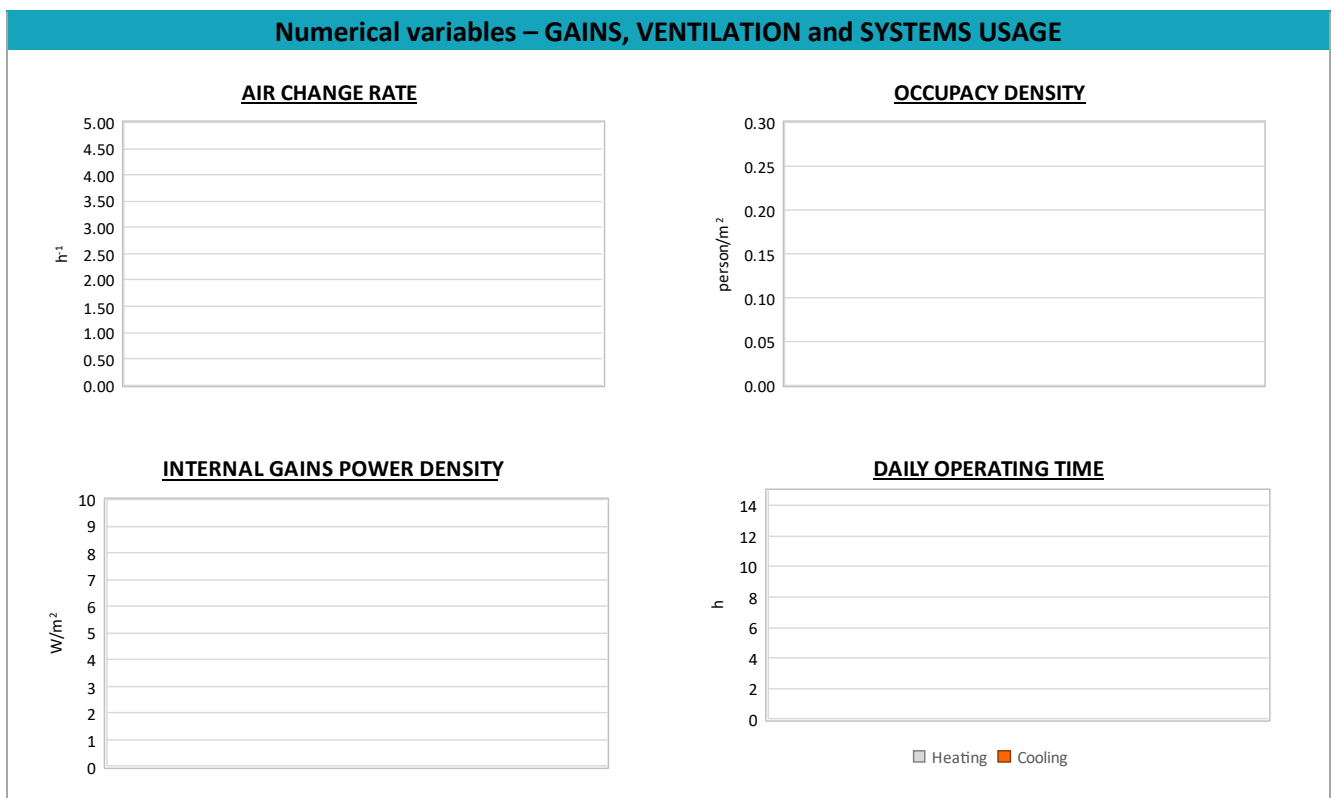


WINDOWS U-VALUE



Region:	Piedmont	Archetype code: EDUC_1981-2000_F_PIE	
Building category:	Non-residential buildings - Educational buildings		
Period of construction:	1981-2000		
Climatic zone:	F	Number of records:	6

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	296.5	260.3	113.8	203.4	424.6
	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	8.0	0.0	8.0	8.0	8.0
	Temperature of DHW	ϑ_w	°C	40.0	0.0	40.0	40.0	40.0
	DHW system power	$P_{W,gen}$	kW	296.5	260.3	113.8	203.4	424.6



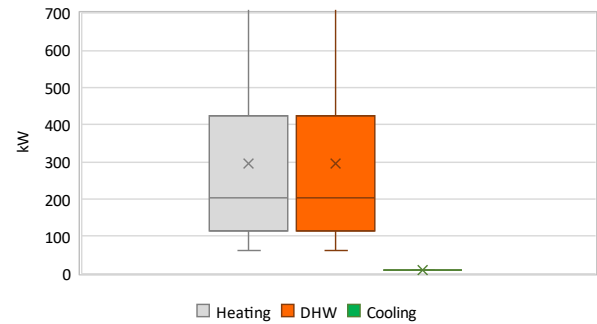
Region:	Piedmont	Archetype code: EDUC_1981-2000_F_PIE
Building category:	Non-residential buildings - Educational buildings	
Period of construction:	1981-2000	
Climatic zone:	F	
Number of records:		6

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

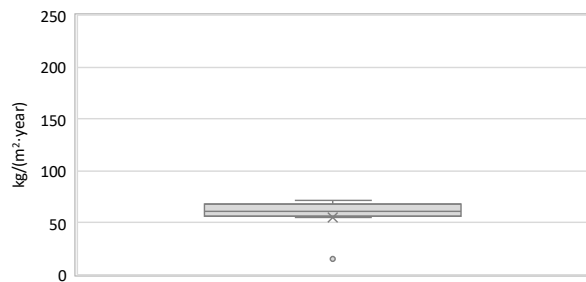
DHW SUPPLY TEMPERATURE



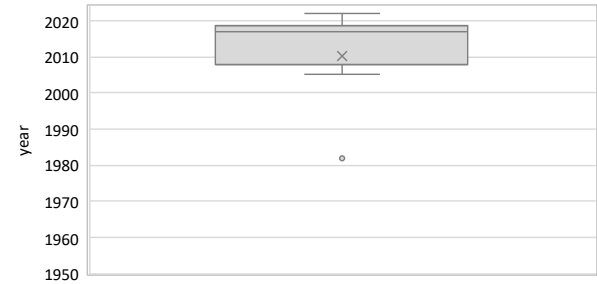
SYSTEM POWER



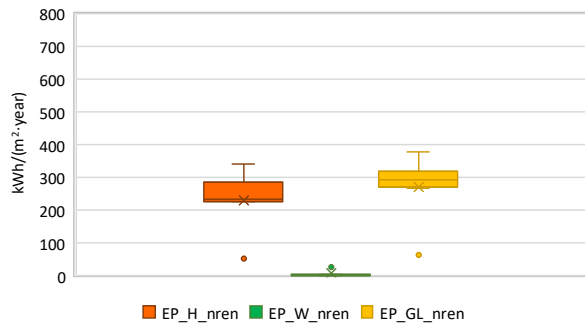
CO₂ EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

