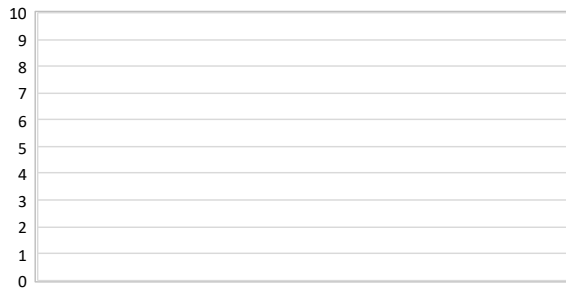


Region:	Piedmont						Archetype code: OFF_1971-1980_E_PIE	
Building category:	Non-residential buildings - Offices							
Period of construction:	1971-1980							
Climatic zone:	E	Number of records:				132		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: hollow brick masonry with thermal insulation (cod. MCV02). Roof slabs: reinforced concrete floor slab for non-walkable flat roof (cod. COP01) or for pitched roof (cod. CIN04).							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	1473.6	4567.1	115.0	378.7	961.0
	Heated gross volume	$V_{H,g}$	m ³	6906.6	21324.5	458.3	1537.4	4197.6
	Heated net volume	$V_{H,n}$	m ³	-	-	-	-	-
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.66	0.31	0.42	0.58	0.84
	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}	-	0.18	0.11	0.11	0.17	0.22
	ENVELOPE	Roof type	-					
U-value of the roof		$U_{fi,up}$	W/(m ² ·K)	-	-	-	-	-
External walls type		Hollow brick masonry: 48%; Solid Brick masonry: 23%; Prefabricated panels: 18%; Unknown: 9%; Concrete wall: 2%						
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)	3.43	1.36	2.48	3.16	4.52
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	14.00	0.00	14.00	14.00	14.00
	Energy carrier	Natural Gas: 90%; Electricity: 9%; Solid biomass: 1%						
	Heating emission sub-system	-						
	Cooling system type	-						
	Daily operating time of the cooling system *	t_C	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Autonomous, detached from heating: 45%; Centralized, coupled with heating: 27%; Autonomous, coupled with heating: 23%; Centralized, detached from heating: 5%						
	DHW generator	-						
* These values are derived from UNI EN ISO Standards								

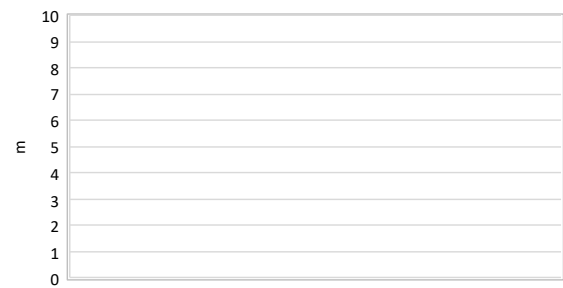
Region:	Piedmont			Archetype code: OFF_1971-1980_E_PIE
Building category:	Non-residential buildings - Offices			
Period of construction:	1971-1980			
Climatic zone:	E	Number of records:	132	

Numerical variables – GEOMETRY

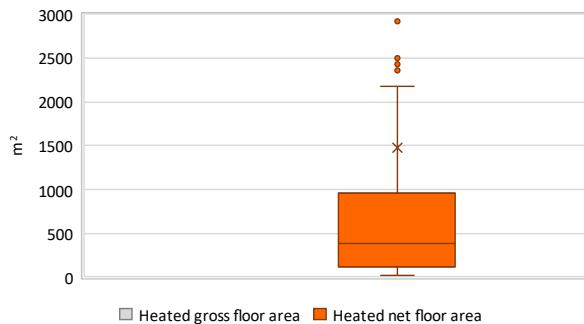
NUMBER OF FLOORS



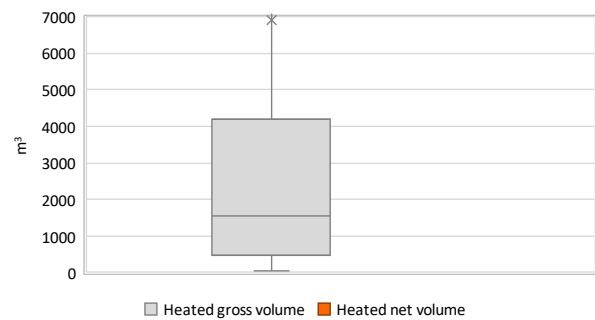
GROSS HEIGHT



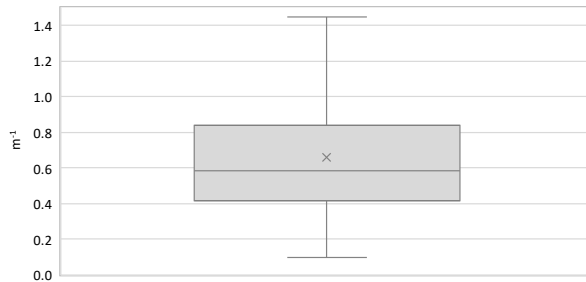
AREA



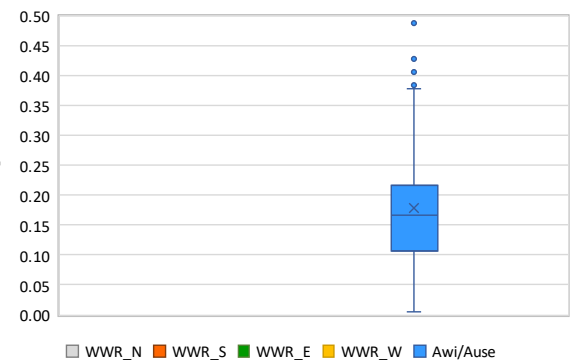
VOLUME



COMPACTNESS RATIO



WINDOWS TO WALL RATIO

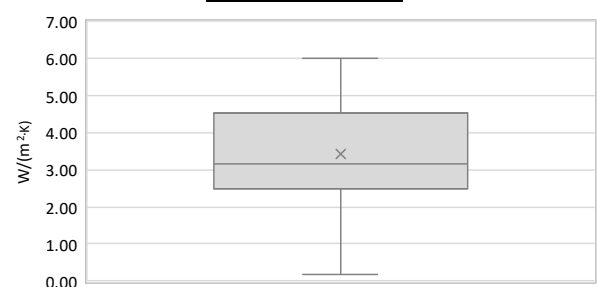


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

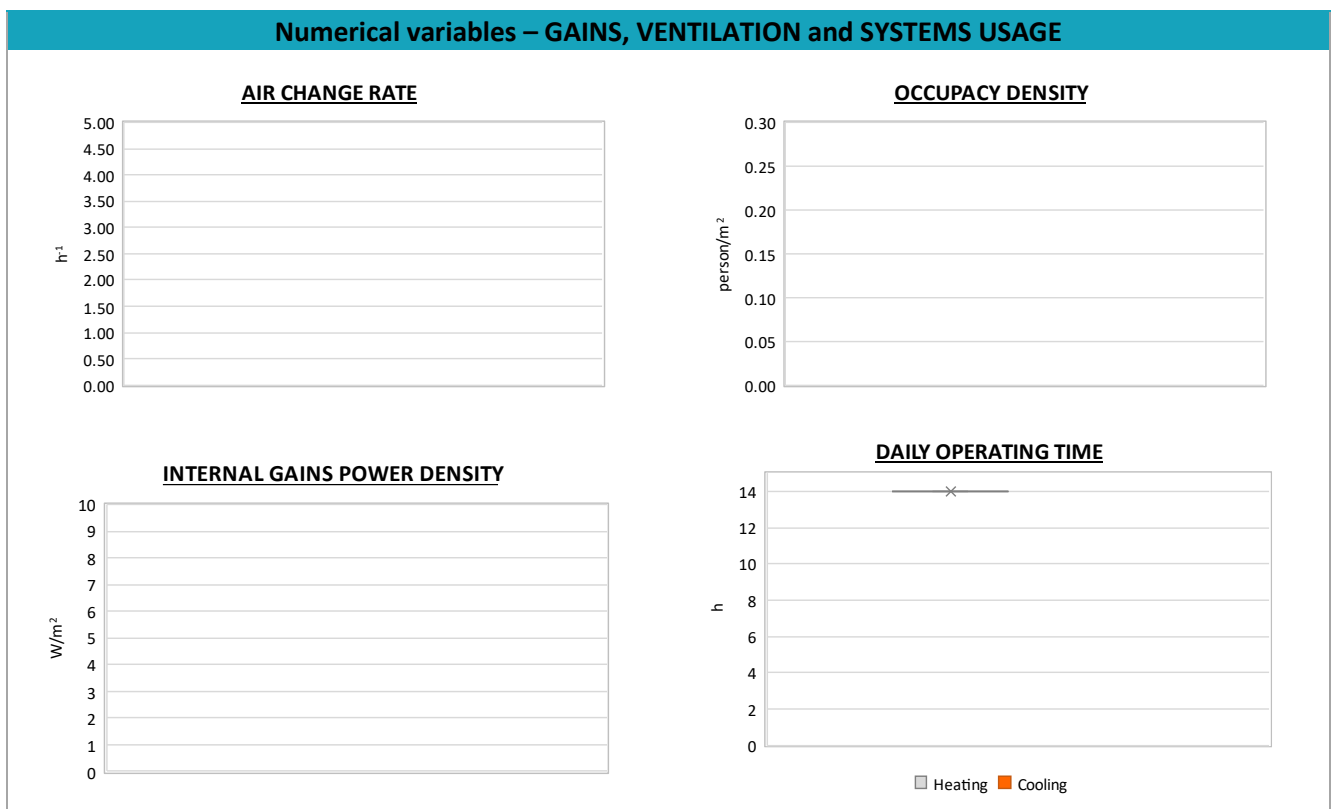


WINDOWS U-VALUE



Region:	Piedmont	Archetype code: OFF_1971-1980_E_PIE
Building category:	Non-residential buildings - Offices	
Period of construction:	1971-1980	
Climatic zone:	E	
Number of records:		132

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	207.7	526.5	25.5	55.2	199.7
	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	82.0	138.9	7.4	31.2	60.1
	Temperature of DHW	ϑ_W	°C	40.0	0.0	40.0	40.0	40.0
	DHW system power	$P_{W,gen}$	kW	80.7	247.6	1.5	23.2	34.0



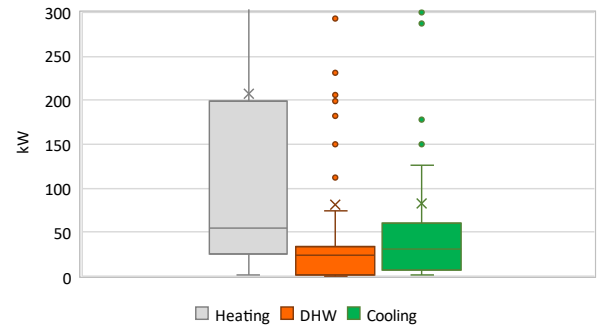
Region:	Piedmont	Archetype code: OFF_1971-1980_E_PIE
Building category:	Non-residential buildings - Offices	
Period of construction:	1971-1980	
Climatic zone:	E	
Number of records:		132

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

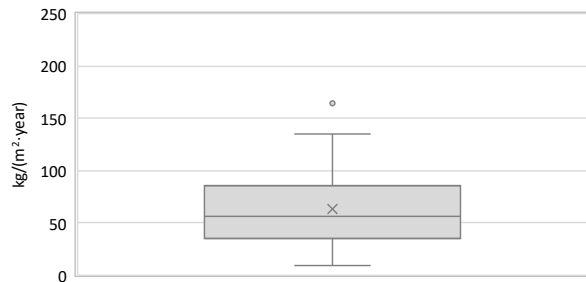
DHW SUPPLY TEMPERATURE



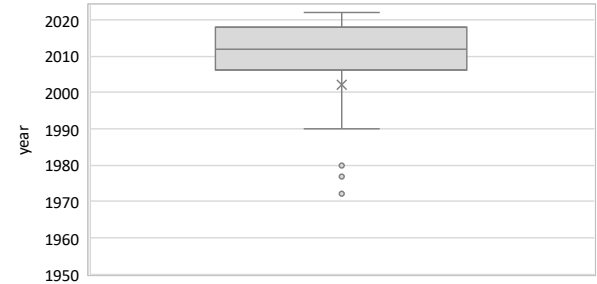
SYSTEM POWER



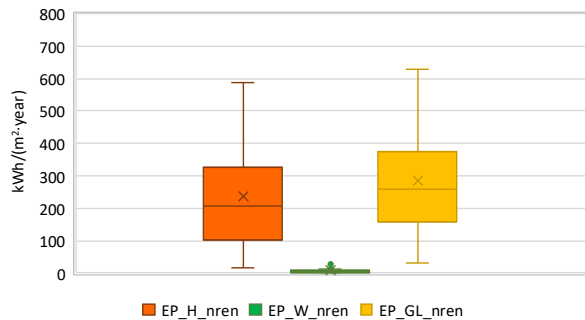
CO₂ EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

