

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Apartments in multi-family block
 RES_APPBLOCK_

 Period of construction:
 1991-2000
 1991-2000_C_LIG

 Climatic zone:
 C
 Number of records:
 817

Description: Data sources:

External walls: no data available Roof slabs: no data available

EPC databases (100%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third		
			measure	value	deviation	quartile)	value)	quartile)		
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	-	-	-		
	Gross height	Hg	m	-	-	-	-	-		
	Footprint area	A _{footprint}	m²	-	-	-	-	-		
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-		
	Heated net floor area	A _{H;n}	m²	-	-	-	-	-		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m³	-	-	-	-	-		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.61	0.24	0.40	0.64	0.78		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
5	WWR – South orientation	WWR _S	-	-	-	-	-	-		
-	WWR – East orientation	WWRE	-	-	-	-	-	-		
	WWR – West orientation	WWR _W	-	-	-	-	-	-		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.11	0.03	0.09	0.10	0.12		
	Roof type				-					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²·K)	1.24	0.52	0.85	1.30	1.64		
	External walls type				-					
PE	<i>U</i> -value of the wall	U _{wl}	W/(m²·K)	1.03	0.46	0.66	1.03	1.27		
ENVELOPE	Slab on ground floor type	-								
	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²·K)	1.42	0.41	1.18	1.54	1.59		
	Windows type			-						
	<i>U</i> -value of the windows	Uw	W/(m²·K)	3.84	1.13	3.00	3.71	4.84		
	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/m²	UNI EN 16798-1 - A.8.3						
NS 8	Equipment power density *	W _A								
GAINS and ENTILATION	Type of ventilation		Natural: 98%; Mechanical: 2%							
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Air exchange rate *	n	h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system type	Unknown: 94%; Autonomous: 6%								
THERMALSYSTEMS	Heating generator	Traditional boiler: 46%; Unknown: 36%; Electric heating: 9%; Condensing boiler: 5%; Airsource heat pump: 3%; Fireplace: 1%								
	Daily operating time of the heating system *	t _H	h	10	0	10	10	10		
	Energy carrier	Unknown: 37%; Natural gas: 34%; Electricity: 13%; Electricity and natural gas: 8%; LPG 6%; Electricity and solid biomass: 1%; Gas Oil: 1%								
	Heating emission sub-system	Radiators: 61%; Unknown: 35%; Air Ducts: 2%; Fan-coil: 1%; Radiant panels: 1%								
	Cooling system type	Unknown: 93%; Heat pump air-air: 6%; Heat pump air-water: 1%								
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	-								
	DHW generator	Unknown: 81%; Condensing boiler: 13%; Electric boiler: 4%; Electric heat pump: 1%; Natural gas boiler: 1%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									







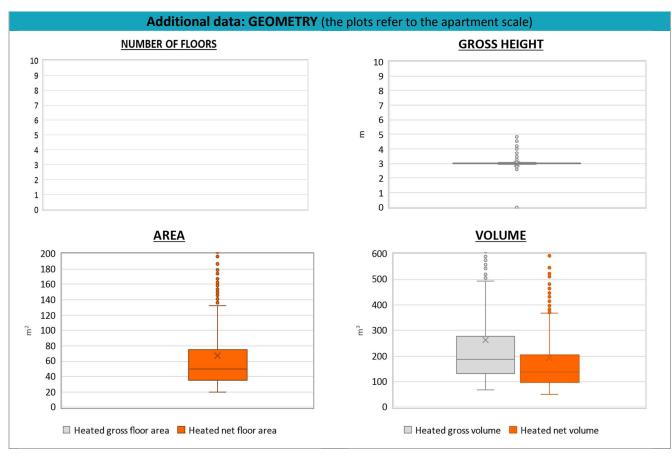
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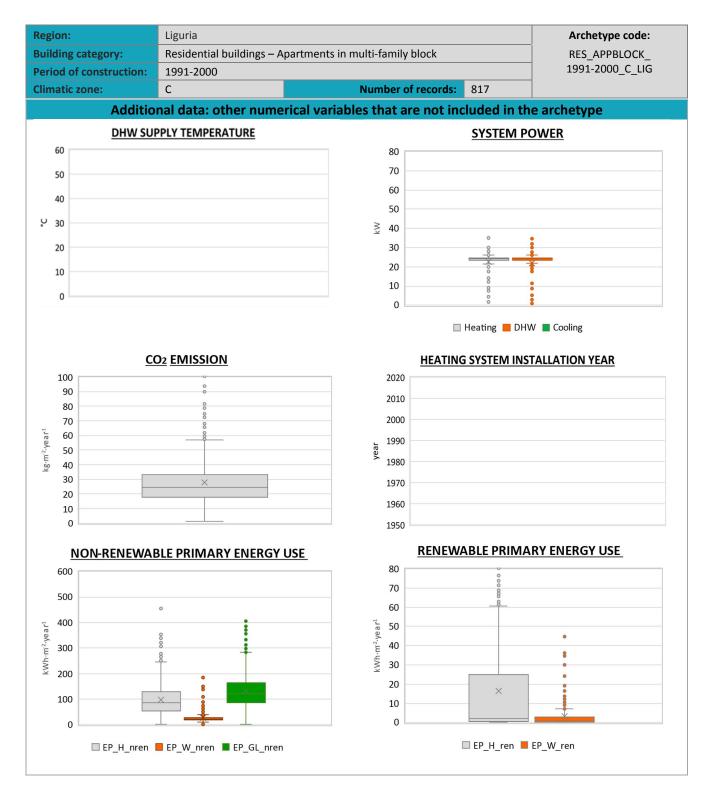
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	H _n	m	3.1	0.2	3.0	3.0	3.0			
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-			
	Heated net floor area	A _{H;n}	m²	67.3	74.0	35.8	50.0	75.0			
	Heated gross volume	V _{H;g}	m³	263.7	364.5	132.3	187.3	277.4			
	Heated net volume	V _{H;n}	m³	192.2	249.7	97.7	138.2	206.1			
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or <i>COP</i> _{H;gen}	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	P _{H;gen}	kW	22.6	5.9	23.3	24.0	24.5			
	Cooling efficiency or EER	η _{C;gen} or <i>EER</i> _{C;gen}	-	This value has to be retrieved from suitable datasheets							
	Total cooling power *	P _{C;gen}	kW	-	-	-	-	-			
	Temperature of DHW	θ_{W}	°C	-	-	-	-	-			
	DHW system power *	P _{W;gen}	kW	22.0	6.9	23.3	24.0	24.4			
	* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 803; Window to useful floor area ratio: 147; U-value of the roof: 189; U-value of the wall: 728; U-value of the floor: 44; U-value of the windows: 817; Inter-storey height: 803; Heated net floor area: 803; Heated gross volume: 803; Heated net volume: 803; Total heating power: 351; DHW system power: 506; CO2 Emission: 811; EP_H_nren: 813; EP_W_nren: 775; EP_GL_nren: 812; EP_H_ren: 561; EP_W_ren: 318