

 Region:
 Liguria
 Archetype code:

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

 Period of construction:
 1951-1960
 1951-1960_C_LIG

 Climatic zone:
 C
 Number of records:
 3784

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			
		ĺ	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	0.54	0.83	0.34	0.49	0.69			
9	WWR – North orientation	WWR _N	-	-	-	-	-	-			
ID B	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}	-	0.11	0.04	0.09	0.10	0.12			
	Roof type				-						
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²·K)	1.41	0.56	1.22	1.57	1.73			
	External walls type				-						
OPE	<i>U</i> -value of the wall	U_{wl}	W/(m²⋅K)	1.24	0.43	1.10	1.22	1.41			
Œ	Slab on ground floor type	-									
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²⋅K)	1.46	0.41	1.37	1.54	1.66			
	Windows type				-						
	<i>U</i> -value of the windows	Uw	W/(m²·K)	4.07	1.28	3.18	4.33	5.09			
	Shading system type										
_ Z	Occupancy density *	O _C	person/m²	UNI EN 16798-1 - Table A.19							
and	Lighting power density *	W _L	W/m²	UNI EN 16798-1 - A.8.3							
NS F	Equipment power density *	W _A	W/m²	UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation			Natural: 99%; Mechanical: 1%							
- >	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30			
THERMAL SYSTEMS	Heating system type		Unknown: 96%; Autonomous: 4%								
	Heating generator	Traditional boiler: 40%; Unknown: 40%; Condensing boiler: 11%; Air-source heat pump: 8%; Fireplace: 1%									
	Daily operating time of the heating system *	t _H	h	10	0	10	10	10			
	Energy carrier	Unknown: 42%; Natural gas: 38%; Electricity and natural gas: 11%; Electricity 8%; Gas Oil: 1%									
	Heating emission sub-system	Radiators: 51%; Unknown: 40%; Air Ducts: 3%; Convectors: 2%; Fan-coil: 2%; Radiant panels: 2%									
ΑĀ	Cooling system type	Unknown: 89%; Heat pump air-air: 11%									
THERI	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system	-									
	DHW system type										
	DHW generator	Unknown: 71%; Electric boiler: 14%; Condensing boiler: 9%; Natural gas boiler: 4%; Electric heat pump: 2%									
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards										



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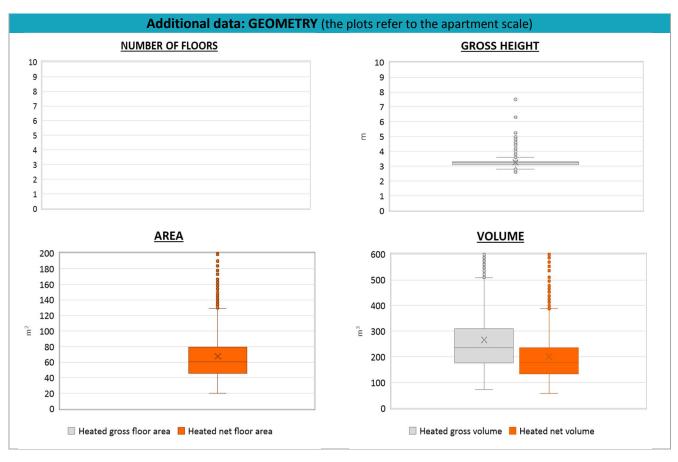
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	Hn	m	3.3	0.3	3.1	3.3	3.3			
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	67.5	46.7	45.5	60.6	79.3			
	Heated gross volume	$V_{H;g}$	m³	266.0	195.2	176.2	235.9	309.8			
	Heated net volume	$V_{H;n}$	m³	200.2	152.8	132.9	177.3	234.8			
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ ext{H;gen}}$ or $ ext{ extit{COP}}_{ ext{H;gen}}$	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	$P_{H;gen}$	kW	21.3	6.8	23.0	24.0	24.0			
	Cooling efficiency or EER	η _{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	$ heta_{\sf W}$	°C	-	-	-	-	-			
	DHW system power *	$P_{ m W;gen}$	kW	18.1	9.8	7.5	24.0	24.0			
	* These values refer to the apa	rtment scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 3784; Window to useful floor area ratio: 767; U-value of the roof: 631; U-value of the wall: 3265; U-value of the floor: 190; U-value of the windows: 3784; Inter-storey height: 3784; Heated net floor area: 3784; Heated gross volume: 3784; Heated net volume: 1602; Total heating power: 2657; CO2 Emission: 3744; EP_H_nren: 3755; EP_W_nren: 3642; EP_GL_nren: 3770; EP_H_ren: 2351; EP_W_ren: 1962