

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Single family houses
 RES\_SINGLE\_

 Period of construction:
 -1950\_E\_LIG

 Climatic zone:
 E
 Number of records:
 1708

Description: Data sources:

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

EPC databases (100%)

Roof slabs: no data available											
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third			
BUILDING GEOMETRY			measure	value	deviation	quartile)	value)	quartile)			
	Number of floors	n <sub>f</sub>	-	-	-	-	-	-			
	Gross height	Hg	m	-	-	-	-	-			
	Footprint area	A <sub>footprint</sub>	m <sup>2</sup>	-	-	-	-	-			
	Heated gross floor area	A <sub>H;g</sub>	m²	-	-	-	-	-			
	Heated net floor area	A <sub>H;n</sub>	m²	-	-	-	-	-			
	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-	-			
	Heated net volume	V <sub>H;n</sub>	m³	-	-	-	-	-			
	Compactness ratio	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.81	1.96	0.60	0.77	0.91			
	WWR – North orientation	WWR <sub>N</sub>	-	-	-	-	-	-			
	WWR – South orientation	<i>WWR</i> <sub>S</sub>	-	-	-	-	-	-			
	WWR – East orientation	WWR <sub>E</sub>	-	-	-	-	-	-			
	WWR – West orientation	<i>WWR</i> <sub>w</sub>	-	-	-	-	-	-			
	Window to useful floor area	A <sub>wi</sub> /A <sub>use</sub>	_	0.10	0.02	0.09	0.10	0.11			
	ratio	, wi, ruse		0.10	0.02	0.03	0.10	0.11			
	Roof type				-						
	<i>U</i> -value of the roof	U <sub>fl;up</sub>	W/(m²·K)	1.50	0.88	0.78	1.54	1.99			
ш	External walls type				-						
ENVELOPE	U-value of the wall	U <sub>wl</sub>	W/(m²⋅K)	1.76	0.66	1.26	1.77	2.28			
Æ	Slab on ground floor type				-						
EN	<i>U</i> -value of the floor	U <sub>fl;lw</sub>	W/(m²·K)	1.67	0.65	1.30	1.65	1.97			
	Windows type				-						
	<i>U</i> -value of the windows	U <sub>W</sub>	W/(m²·K)	4.06	1.17	3.24	4.29	4.90			
	Shading system type	-									
_ Z	Occupancy density *	<b>O</b> C	person/m <sup>2</sup> UNI EN 16798-1 - Table A.19								
anc	Lighting power density *	W∟	W/m²	UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Equipment power density *	W <sub>A</sub>	W/m²			UNI EN 16798	3-1 - A.8.3				
EN GA	Type of ventilation			Natural: 100%							
>	Air exchange rate *	n	h <sup>-1</sup>	0.30	0.00	0.30	0.30	0.30			
	Heating system type			Unkn	own: 95%; Aı	utonomous: 5	%				
THERMAL SYSTEMS	Heating generator	Unknown: 56%; Traditional boiler: 30%; Fireplace: 8%; Condensing boiler: 5%; Air-source heat pump: 1%									
	Daily operating time of the heating system *	t <sub>H</sub>	h	14	0	14	14	14			
	Energy carrier	Unknown: 56%; Natural gas: 21%; Electricity and natural gas: 8%; Electricity and solid biomass: 5%; Solid biomass: 4%; LPG: 4%; Electricity: 1%; Gas Oil: 1%									
	Heating emission sub-system	Unknown: 55%; Radiators: 38%; Air Ducts: 3%; Radiant panels: 1%; Fan-coil 1%; Convectors: 1%; Air Heater: 1%									
	Cooling system type	Unknown: 99%; Heat pump air-air: 1%									
	Daily operating time of the cooling system *	t <sub>C</sub>	h	-	-	-	-	-			
	Cooling emission sub-system				-						
	DHW system type	-									
	DHW generator	Unknown: 72%; Electric boiler: 16%; Condensing boiler: 5%; Natural gas boiler: 4%; Electric heat pump: 3%									
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards										







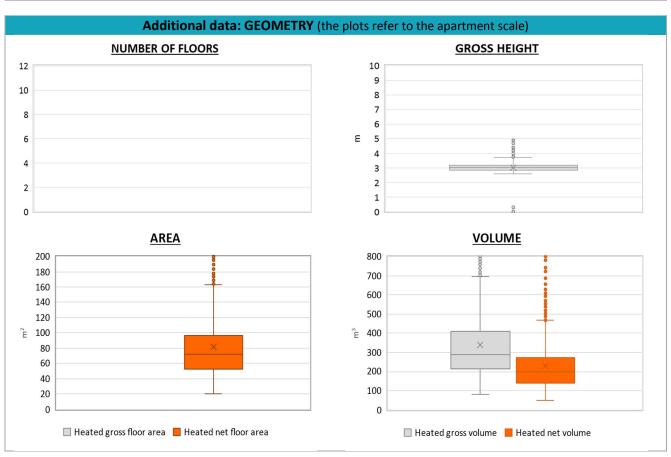
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ADDITIONAL DATA											
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third			
			measure	value	deviation	quartile)	value	quartile)			
GEOMETRY: apartments	Inter-storey height	Hn	m	3.1	0.3	2.9	3.0	3.2			
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	81.9	46.0	52.4	72.2	96.9			
	Heated gross volume	$V_{H;g}$	m³	338.4	193.6	212.5	290.0	407.9			
0 6	Heated net volume	$V_{H;n}$	m³	228.2	134.7	141.0	198.3	271.8			
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{\sf H;gen}$ or $ extit{COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	$P_{H;gen}$	kW	22.0	7.0	22.8	24.0	24.4			
	Cooling efficiency or EER	$\eta_{C;gen}$ or $\mathit{EER}_{C;gen}$	-	This value has to be retrieved from suitable datasheets							
	Total cooling power *	$P_{C;gen}$	kW	-	-	-	-	-			
	Temperature of DHW	$ heta_{\sf W}$	°C	-	-	-	-	-			
Ė	DHW system power *	$P_{ m W;gen}$	kW	16.8	11.1	1.5	24.0	24.0			
	* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 1676; Window to useful floor area ratio: 133; U-value of the roof: 509; U-value of the wall: 1552; U-value of the floor: 203; U-value of the windows: 1708; Inter-storey height: 1701; Heated net floor area: 1701; Heated gross volume: 1675; Heated net volume: 1676; Total heating power: 637; DHW system power: 970; CO2 Emission: 1577; EP\_H\_nren: 1694; EP\_W\_nren: 1634; EP\_GL\_nren: 1682; EP\_H\_ren: 853; EP\_W\_ren: 959