

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Entire multifamily blocks
 RES\_BLDGS\_

 Period of construction:
 1991-2000
 1991-2000\_E\_LIG

Climatic zone: E Number of records: 28

Description:

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

Data sources: EPC databases (100%)

	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (Median value)	Q3 (third quartile)		
BUILDING GEOMETRY	Number of floors	n <sub>f</sub>	-	-	-	-	-	-		
	Gross height	Hg	m	-	-	-	-	-		
	Footprint area	A <sub>footprint</sub>	m²	-	-	-	-	-		
	Heated gross floor area	A <sub>H;g</sub>	m²	-	-	-	-	-		
	Heated net floor area	A <sub>H;n</sub>	m²	149.9	130.4	72.6	105.4	171.5		
	Heated gross volume	V <sub>H;g</sub>	m³	595.2	586.8	292.7	434.6	720.9		
	Heated net volume	V <sub>H;n</sub>	m³	439.7	448.6	199.5	321.1	501.7		
	Compactness ratio	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.80	0.25	0.66	0.82	1.01		
Į.	WWR - North orientation	WWR <sub>N</sub>	-	-	-	-	-	-		
팅	WWR – South orientation	WWR <sub>s</sub>	-	-	-	-	-	-		
	WWR – East orientation	WWR <sub>E</sub>	-	-	-	-	-	-		
	WWR – West orientation	WWR <sub>w</sub>	-	-	-	-	-	-		
	Window to useful floor area ratio	A <sub>wi</sub> /A <sub>use</sub>	-	-	-	-	-	-		
	Roof type		-							
	<i>U</i> -value of the roof	U <sub>fl;up</sub>	W/(m²⋅K)	1.03	0.76	0.47	0.77	1.35		
ENVELOPE	External walls type	,up	, ,		-		5			
	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²⋅K)	1.12	0.70	0.51	1.10	1.40		
	Slab on ground floor type	-								
	<i>U</i> -value of the floor	U <sub>fl;lw</sub>	W/(m²⋅K)	-	-	-	-	-		
	Windows type									
	<i>U</i> -value of the windows	U <sub>W</sub>	W/(m²⋅K)	3.72	1.13	2.84	3.37	4.66		
	Shading system type		, ,		-					
7	Occupancy density *	O <sub>C</sub> person/m <sup>2</sup> UNI EN 16798-1 - Table A.19								
GAINS and VENTILATION	Lighting power density *	$W_{L}$	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3						
VS a	Equipment power density *	W <sub>A</sub>								
GAINS and ENTILATION	Type of ventilation	Natural: 96%; Mechanical: 4%								
A K	Air exchange rate *	n	h <sup>-1</sup>	0.30	0.00	0.30	0.30	0.30		
	Heating system type	_								
	Heating generator	Unknown: 57%; Traditional boiler: 25%; Condensing boiler: 11%; Fireplace: 7%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t <sub>H</sub>	h	14	0	14	14	14		
	Energy carrier	Unknown: 64%; Natural gas: 18%; Electricity and solid biomass: 7%; LPG: 7%; Electricity and natural gas: 4%								
	Heating emission sub- system	Unknown: 57%; Radiators: 39%; Radiant panels: 4%								
	Cooling system type	Unknown: 93%; Heat pump air-air: 7%								
	Daily operating time of the cooling system *	t <sub>C</sub>	h	-	-	-	-	-		
_	Cooling emission sub-system	-								
	DHW system type	-								
	DHW generator	Unknown: 46%; Condensing boiler: 25%; Electric boiler: 11%; Natural gas boiler: 7%; Electric heat pump: 7%; Solar thermal: 4%								
	* These values were not availa	able in the considered sources, and are thus derived from UNI EN Standards								







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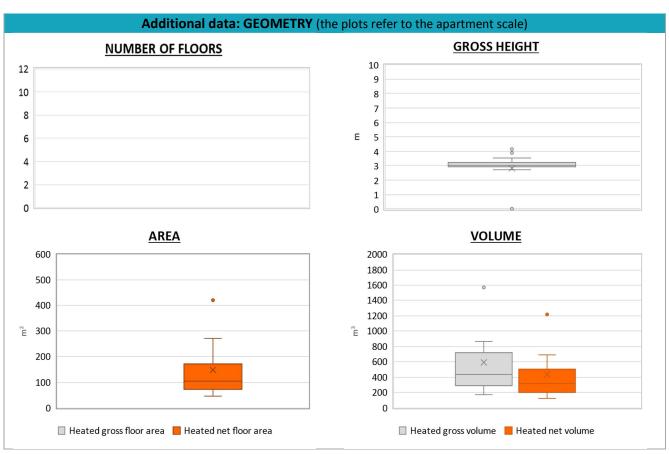
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	Hn	m	3.1	0.3	2.9	3.0	3.2			
	Heated gross floor area	A <sub>H;g</sub>	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	-	-	-	-	-			
THERMAL SYSTEMS	Heating efficiency or COP	η <sub>H;gen</sub> or <i>COP</i> H;gen	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	P <sub>H;gen</sub>	kW	27.6	2.9	25.0	28.0	28.0			
	Cooling efficiency or EER	η <sub>C;gen</sub> or <i>EER</i> <sub>C;gen</sub>	-	This value has to be retrieved from suitable datasheets							
	Total cooling power *	P <sub>C;gen</sub>	kW	-	-	-	-	-			
	Temperature of DHW	$\theta_{W}$	°C	-	-	-	-	-			
	DHW system power *	$P_{ m W;gen}$	kW	22.5	11.1	19.0	26.0	28.0			
	* These values refer to the apa	rtment scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 25; U-value of the roof: 16; U-value of the wall: 25; U-value of the windows: 28; Inter-storey height: 25; Heated net floor area: 25; Heated gross volume: 25; Heated net volume: 25; Total heating power: 8; DHW system power: 21; CO2 Emission: 25; EP\_H\_nren: 25; EP\_W\_nren: 25; EP\_B\_nren: 23; EP\_H\_ren: 23; EP\_W\_ren: 19