

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Single family houses
 RES_SINGLE_

 Period of construction:
 1991-2000
 1991-2000_C_LIG

 Climatic zone:
 C
 Number of records:
 548

Description: Data sources:

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

EPC databases (100%)

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	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (Median value)	Q3 (third quartile)		
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	- quartile	-	- quartile		
	Gross height	Hg	m	_	_	-	-	_		
	Footprint area	A _{footprint}	m ²	_	-	_	-	-		
	Heated gross floor area	A _{H;g}	m ²	_	-	-	-	_		
	Heated net floor area	A _{H;n}	m ²	-	-	_	-	_		
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m ³	-	-	-	-	-		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.73	0.38	0.46	0.69	0.92		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
5	WWR – South orientation	WWR _S	-	-	-	-	-	-		
—	WWR – East orientation	WWR _E	-	-	-	-	-	-		
	WWR – West orientation	WWR _w	-	-	-	-	-	-		
	Window to useful floor area			0.12	0.00	0.00	0.10	0.12		
	ratio	A _{wi} /A _{use}	-	0.12	0.06	0.09	0.10	0.12		
	Roof type				-					
	<i>U</i> -value of the roof	$U_{fl;up}$	W/(m²·K)	1.20	0.70	0.59	1.15	1.65		
	External walls type				-					
ENVELOPE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²·K)	1.06	0.54	0.66	1.10	1.31		
Æ	Slab on ground floor type				-					
Ë	<i>U</i> -value of the floor	$U_{fl;lw}$	W/(m²⋅K)	1.49	0.51	1.23	1.54	1.70		
	Windows type				-					
	<i>U</i> -value of the windows	U_{W}	W/(m²⋅K)	3.68	1.16	2.86	3.64	4.53		
	Shading system type	-								
_ Z	Occupancy density *	Oc person/m ² UNI EN 16798-1 - Table A.19								
GAINS and VENTILATION	Lighting power density *	W _L W/m ² UNI EN 16798-1 - A.8.3								
INS II LA	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3								
GA 'EN'	Type of ventilation		Natural: 99%; Mechanical: 1%							
	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30		
	Heating system type	Unknown: 94%; Autonomous: 6%								
	Heating generator	Traditional boiler: 45%; Unknown: 40%; Condensing boiler: 8%; Air-source heat pump: 6%; Fireplace: 1%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	10	0	10	10	10		
	Energy carrier	Unknown: 42%; Natural gas: 37%; Electricity and natural gas: 7%; LPG: 7%; Electricity: 6%; Electricity and solid biomass: 1%								
	Heating emission sub-system	Radiators: 53%; Unknown: 40%; Air Ducts: 3%; Fan-coil: 2%; Radiant panels: 1%; Convectors: 1%								
	Cooling system type	Unknown: 88%; Heat pump air-air: 11%; 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: 79%; Condensing boiler: 9%; Electric boiler: 8%; Natural gas boiler: 2%; Electric heat pump: 1%; Solar thermal: 1%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									







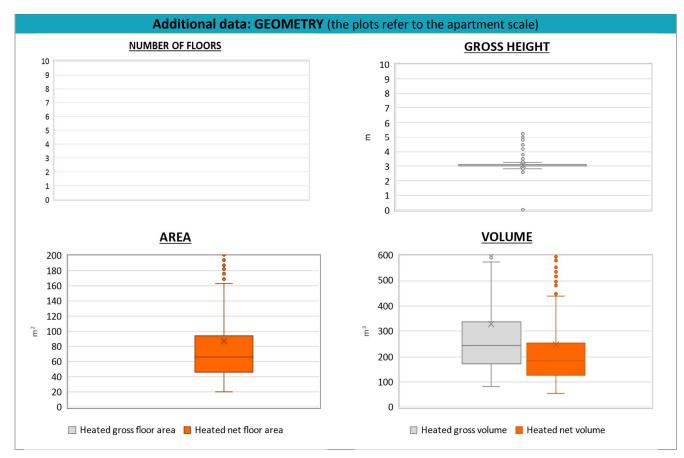
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	Hn	m	3.1	0.3	3.0	3.0	3.1			
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-			
	Heated net floor area	A _{H;n}	m ²	86.7	109.7	46.4	66.1	93.9			
	Heated gross volume	V _{H;g}	m³	327.4	436.6	170.5	243.1	335.6			
0 6	Heated net volume	V _{H;n}	m³	246.6	352.8	126.4	183.2	253.9			
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	22.8	6.5	23.7	24.0	24.9			
	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	-	-	-	-	-			
Ė	DHW system power *	P _{W;gen}	kW	21.6	8.2	23.3	24.0	25.6			
	* These values refer to the apartment s	scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 543; Window to useful floor area ratio: 94; U-value of the roof: 162; U-value of the wall: 480; U-value of the floor: 47; U-value of the windows: 548; Inter-storey height: 544; Heated net floor area: 544; Heated gross volume: 544; Heated net volume: 544; Total heating power: 234; DHW system power: 405; CO2 Emission: 539; EP_H_nren: 535; EP_W_nren: 525; EP_GL_nren: 536; EP_H_ren: 375; EP_W_ren: 243