

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Entire multifamily blocks
 RES_BLDGS_

 Period of construction:
 2001-_C_LIG

 Climatic zone:
 C
 Number of records:
 279

Description: Data sources:

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

EPC databases (100%)

	Data	Symbol	Unit of	Mean value	Standard	Q1 (first	Q2 (Median	Q3 (third		
BUILDING GEOMETRY	Number of floors	n _f	measure -	value -	deviation -	quartile)	value) -	quartile)		
	Gross height	H _g	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	261.6	737.2	53.1	84.7	143.1		
	Heated gross volume	V _{H;g}	m ³	1138.5	3152.5	229.1	353.9	656.3		
	Heated net volume	V _{H;n}	m ³	818.7	2389.8	149.5	235.8	450.0		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.81	0.33	0.64	0.78	0.98		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
Ⅎ	WWR – South orientation	WWR _S	-	-	-	-	-	-		
a	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									
	U-value of the roof	U _{fl;up}	W/(m²·K)	0.63	0.62	0.26	0.35	0.68		
	External walls type	Off;up	VV/(IIIK)	0.03	0.62	0.26	0.35	0.08		
光	U-value of the wall	U _{wl}	W/(m²·K)	0.57	0.51	0.25	0.34	0.65		
ENVELOPE	Slab on ground floor type	U _W	VV/(III 'K)	0.57	0.51	0.25	0.34	0.05		
⋚	U-value of the floor	U _{fl;lw}	W/(m²·K)	0.91	0.60	0.38	0.71	1.54		
Ē	Windows type	OTI;IW	VV/(III ·K)	0.91	0.00	0.36	0.71	1.54		
	<i>U</i> -value of the windows	U _W	W/(m²·K)	2.39	1.18	1.50	1.91	3.09		
	Shading system type	Ow .	VV/(III ·K)	2.33	1.10	1.30	1.91	3.03		
	Occupancy density *	O _C person/m ² UNI EN 16798-1 - Table A.19								
. S	Lighting power density *	W _L								
VENTILATION	Equipment power density *	W _A								
Ē	Type of ventilation	W _A W/m² UNI EN 16798-1 - A.8.3 Natural: 72%; Mechanical: 28%								
, <u>P</u>	Air exchange rate *	n	h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system type	"								
	Heating system type Heating generator	Unknown: 91%; Autonomous: 9% Unknown: 48%; Air-source heat pump: 27%; Traditional boiler: 11%; Condensing boiler:								
		11%; Fireplace: 2%; Water-source heat pump: 1%								
	Daily operating time of the heating system *	t _H	h	10	0	10	10	10		
THERMAL SYSTEMS	Energy carrier	Unknown: 42%; Electricity: 34%; Natural gas: 13%; LPG: 4%; Electricity and natural gas: 4%; Solid biomass: 1%; Electricity and solid biomass: 1%								
	Heating emission sub-system	Unknown: 41%; Radiators: 23%; Air Ducts: 14%; Radiant panels: 11%; Fan-coil: 10%; Convectors: 1%								
	Cooling system type	Unknown: 55%; Heat pump air-air: 23%; Heat pump air-water: 22%; Heat pump water-air: 1%								
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type									
	DHW generator	Unknown: 69%; Condensing boiler: 22%; Electric boiler: 4%; Natural gas boiler: 3%; Solar thermal: 3%								









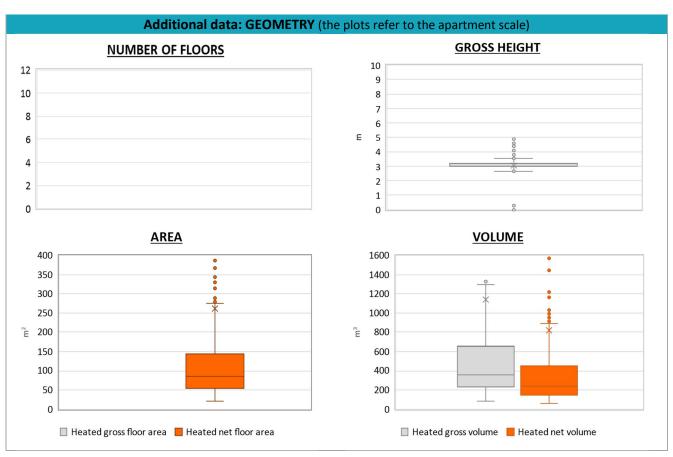
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	H _n	m	3.1	0.4	3.0	3.0	3.2			
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-			
	Heated net floor area	A _{H;n}	m²	-	-	-	-	-			
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m³	-	-	-	-	-			
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	P _{H;gen}	kW	17.0	9.8	8.3	16.0	24.0			
	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 *	$P_{ m W;gen}$	kW	15.5	10.6	4.4	16.0	24.0			
	* These values refer to the apa	rtment scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 269; Window to useful floor area ratio: 47; U-value of the roof: 168; U-value of the wall: 262; U-value of the floor: 48; U-value of the windows: 280; Inter-storey height: 276; Heated net floor area: 276; Heated gross volume: 269; Heated net volume: 269; Total heating power: 114; DHW system power: 206; CO2 Emission: 272; EP_H_nren: 273; EP_W_nren: 262; EP_GL_nren: 268; EP_H_ren: 248; EP_W_ren: 210