

 Region:
 Liguria
 Archetype code:

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

 Period of construction:
 1961-1970
 1961-1970_C_LIG

 Climatic zone:
 C
 Number of records:
 7723

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	Number of floors		measure	value -	deviation	quartile)	value) -	quartile)		
	Gross height	n _f	- m	-	-	-	-	-		
	Footprint area	H _g	m m²	-	-		-	-		
	Heated gross floor area	A _{footprint}	m ²	-	-	-	-	-		
	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-		
	Heated gross volume	A _{H;n} V _{H;g}	m ³	_	-		_			
	Heated net volume	i	m ³	-	-	-	-	-		
	Compactness ratio	V _{H;n}	m ⁻¹	0.53	0.39	0.33	0.47	0.68		
	WWR – North orientation	A _{env} /V _{H;g} WWR _N						0.00		
불	WWR – South orientation	WWR _S	-	-	-	-	-	<u>-</u>		
B		-	<u>-</u>					-		
	WWR – East orientation	WWRE	-	-	-	-	-	<u>-</u>		
	WWR – West orientation Window to useful floor area	WWR _W	-	-	-	-	-	-		
	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)	1.49	0.46	1.40	1.62	1.74		
	External walls type	- п,ир	, , ,	1 21.15	-	21.10	1.02			
핊	<i>U</i> -value of the wall	U _{wl}	W/(m²·K)	1.22	0.33	1.10	1.22	1.35		
99	Slab on ground floor type									
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²·K)	1.46	0.43	1.33	1.54	1.65		
	Windows type	.,	, , ,		-					
	<i>U</i> -value of the windows	Uw	W/(m ² ·K)	4.18	1.25	3.26	4.47	5.20		
	Shading system type				-					
7	Occupancy density *	O _C person/m ² UNI EN 16798-1 - Table A.19								
GAINS and VENTILATION	Lighting power density *	W _L	W/m²	UNI EN 16798-1 - A.8.3						
GAINS and ENTILATION	Equipment power density *	W _A								
A P	Type of ventilation	Natural: 99%; Mechanical: 1%								
G THERMAL SYSTEMS VE	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30		
	Heating system type			Unknown: 97%; Autonomous: 3%						
	Heating generator	Traditional boiler: 41%; Unknown: 37%; Condensing boiler: 17%; Air-source heat pump: 4%; Fireplace: 1%								
	Daily operating time of the heating system *	t _H	h	10	0	10	10	10		
	Energy carrier	Natural gas: 41%; Unknown: 37%; Electricity and natural gas: 13%; Electricity: 4%; Gas Oil: 3%; Electricity and gas oil: 1%; LPG: 1%								
	Heating emission sub-system	Radiators: 59%; Unknown: 36%; Air Ducts: 2%; Fan-coil: 1%; Radiant panels: 1%; Convectors: 1%								
	Cooling system type	Unknown: 91%; Heat pump air-air: 8%; 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: 60%; Electric boiler: 23%; Condensing boiler: 8%; Natural gas boiler: 5%; Electric heat pump: 4%								
	* These values were not availa	alues were not available in the considered sources, and are thus derived from UNI EN Standards								



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The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

■ Heating ■ Cooling



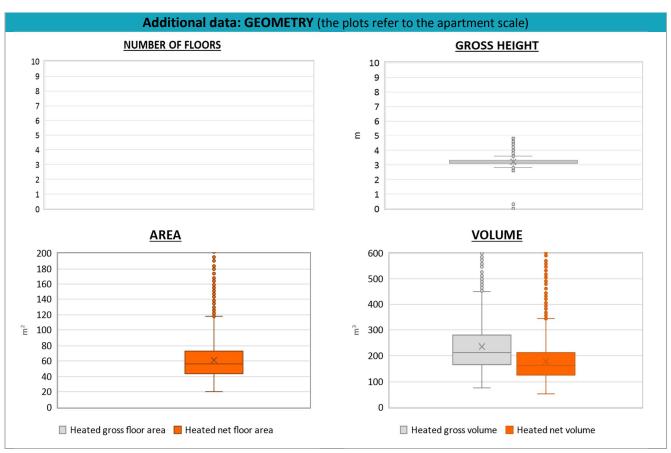
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	H_{n}	m	3.2	0.2	3.1	3.2	3.3			
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	61.2	27.1	43.4	56.1	73.2			
	Heated gross volume	V _{H;g}	m³	237.0	122.5	166.0	213.7	280.3			
	Heated net volume	V _{H;n}	m³	178.9	83.2	125.8	162.1	213.7			
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	20.8	7.5	20.0	24.0	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	$ heta_{\sf W}$	°C	-	-	-	-	-			
	DHW system power *	$P_{W;gen}$	kW	14.4	11.0	1.2	20.0	24.0			
	* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 7690; Window to useful floor area ratio: 1787; U-value of the roof: 1103; U-value of the wall: 6642; U-value of the floor: 345; U-value of the windows: 7723; Inter-storey height: 7716; Heated net floor area: 7716; Heated gross volume: 7689; Heated net volume: 7690; Total heating power: 2347; DHW system power: 5319; CO2 Emission: 7620; EP_H_nren: 7680; EP_W_nren: 7458; EP_GL_nren: 7682; EP_H_ren: 5323; EP_W_ren: 4852