

Description:

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Entire multifamily blocks
 RES_BLDGS_

 Period of construction:
 1961-1970
 1961-1970_D_LIG

Climatic zone: D Number of records: 419

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

Data sources: 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	-	- value	-	- qual tile)	- value)	- quartile			
	Gross height	H _g	m	_	_	_	_				
	Footprint area	A _{footprint}	m ²	_	_	_	_				
	Heated gross floor area		m ²	_	_	_	_				
	Heated net floor area	A _{H;g}	m ²	702 5	2640.1	90.1	120.0	405.2			
	Heated gross volume	A _{H;n}	m ³	783.5	2649.1	80.1	128.9	495.3			
		V _{H;g}	m ³	2432.3	5467.2	311.1	471.9	1296.6			
	Heated net volume	V _{H;n}		1875.2	4321.5	229.7	343.9	955.7			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.68	0.27	0.43	0.67	0.91			
2	WWR – North orientation	WWR _N	-	-	-	-	-	-			
BL	WWR – South orientation	WWR _S	-	-	-	-	-	-			
	WWR – East orientation	WWRE	-	-	-	-	-	-			
	WWR – West orientation	WWR _W	-	-	-	-	-	-			
	Window to useful floor area	A _{wi} /A _{use}	-	0.12	0.06	0.08	0.10	0.12			
	ratio										
	Roof type		\A///2 (/)	4.42	0.76	0.00	4.50	4.70			
	U-value of the roof	U _{fl;up}	W/(m²⋅K)	1.43	0.76	0.99	1.53	1.79			
ш	External walls type		14// 21/								
O O	<i>U</i> -value of the wall	U _{wl}	W/(m²⋅K)	1.26	0.55	0.98	1.21	1.52			
ENVELOPE	Slab on ground floor type										
	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²⋅K)	1.52	0.45	1.27	1.55	1.69			
	Windows type				-						
	<i>U</i> -value of the windows	U _W	W/(m²⋅K)	3.82	1.25	3.01	3.75	4.80			
_ Z	Shading system type	-									
	Occupancy density *	<i>O</i> _C									
an	Lighting power density *	W _L		W/m ² UNI EN 16798-1 - A.8.3							
GAINS and	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3									
GA EN	Type of ventilation			Natural 96%; Mechanical 4%							
>	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30			
	Heating system type	Unknown: 96%; Autonomous: 3%; Centralized: 1%									
THERMAL SYSTEMS	Heating generator	Unknown: 45%; Traditional boiler: 33%; Condensing boiler: 16%; Air-source heat pump: 4%; Fireplace: 2%									
	Daily operating time of the heating system *	t _H	h	12	0	12	12	12			
	Energy carrier	Unknown: 45%; Natural gas: 34%; Electricity and natural gas: 11%; Electricity: 4%; Electricity and solid biomass: 2%; LPG: 2%; Gas Oil: 1%; Electricity and gas oil: 1%									
	Heating emission sub-	Radiators: 48%; Unknown: 45%; Air Ducts: 3%; Fan-coil: 2%; Convectors: 1%;									
	system	Radiant panels: 1%									
	Cooling system type	Unknown: 85%; Heat pump air-air: 11%; Heat pump air-water: 4%									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system	-									
	DHW system type	-									
	DHW generator	Unknown: 65%; Electric boiler: 14%; Condensing boiler: 13%; Natural gas boiler: 4%; Electric heat pump: 3%; Solar thermal: 1%									
	* These values were not available in the	the considered sources, and are thus derived from UNI EN Standards									







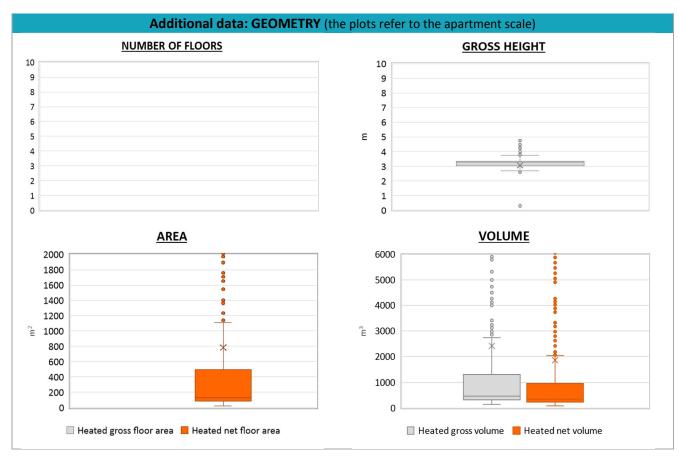
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	Hn	m	3.3	0.3	3.1	3.3	3.4			
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-			
	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 <i>COP</i> H;gen	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	P _{H;gen}	kW	55.6	103.5	23.8	24.0	30.9			
	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	-	-	-	-	-			
	DHW system power *	$P_{ m W;gen}$	kW	17.3	10.8	4.3	23.6	24.3			
	* These values refer to the apa	rtment scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 386; Window to useful floor area ratio: 83; U-value of the roof: 189; U-value of the wall: 385; U-value of the floor: 83; U-value of the windows: 419; Inter-storey height: 419; Heated net floor area: 419; Heated gross volume: 386; Heated net volume: 386; Total heating power: 135; DHW system power: 252; CO2 Emission: 394; EP_H_nren: 415; EP_W_nren: 355; EP_GL_nren: 416; EP_H_ren: 329; EP_W_ren: 254