

 Region:
 Piedmont
 Archetype code:

 Building category:
 Residential buildings - Apartments (in multifamily blocks)
 RES_APPBLOCK_1991-2000_F_PIE

 Period of construction:
 1991-2000
 Number of records:
 1267

Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):

External walls: hollow brick masonry with thermal insulation (cod. MCV02).

Roof slabs: reinforced concrete floor slab (cod. SOL04).

Data sources:

EPC databases (100%)

	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
BUILDING GEOMETRY	Number of floors	nf	-	- value	-	- qual tile)	-	- quartile)		
	Gross height	Hg	m	_	_	-	-	-		
	Footprint area	A _{footprint}	m²	_	-	-	_	-		
	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	_	-	-	_	-		
9 9	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.63	0.24	0.43	0.64	0.77		
N	WWR – North orientation	WWR _N	-	-	-	-	-	-		
3	WWR – South orientation	WWR _S	_	_	_	_	_	_		
<u> </u>	WWR – East orientation	WWR _E		_	_	_		_		
	WWR – West orientation	WWR _W		_	_	-	_	_		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.19	0.10	0.13	0.17	0.21		
PE	Roof type	oof type -								
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²⋅K)	-	-	-	-	-		
	External walls type	7-1	Hollow brick masonry: 79%; Solid Brick masonry: 18%; Unknown: 3%							
	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	-	-	-	-	-		
EFC	Slab on ground floor type	-								
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-		
	Windows type	-								
	<i>U</i> -value of the windows	U _w	W/(m ² ·K)	2.50	0.87	1.98	2.62	2.96		
	Shading system type				-					
7	Occupancy density *	O _C	person/m ²	m ² UNI EN 16798-1 - Table A.19						
<u> </u>	Lighting power density *	W _L	W/m ²	UNI EN 16798-1 - A.8.3						
SS [Ε]	Equipment power density *	W _A	W/m²			UNI EN 16798	-1 - A.8.3			
GAINS and VENTILATION	Type of ventilation			Natural: 100%						
© ₩	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30			
	Heating system type	Autonomous: 82%; Centralized: 18%								
	Heating generator	-								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	No limitation						
	Energy carrier	Natural Gas: 76%; LPG: 6%; District heating: 6%; Solid biomass: 5%; Gas Oil: 4%; Electricity: 3%								
	Heating emission sub-system	-								
	Cooling system type	-								
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	Autonomous, coupled with heating: 75%; Autonomous, detached from heating: 15%; Centralized, coupled with heating: 9%; Centralized, detached from heating: 1%								
	DHW generator	-								
	* These values are derived from UNI EN ISO 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.



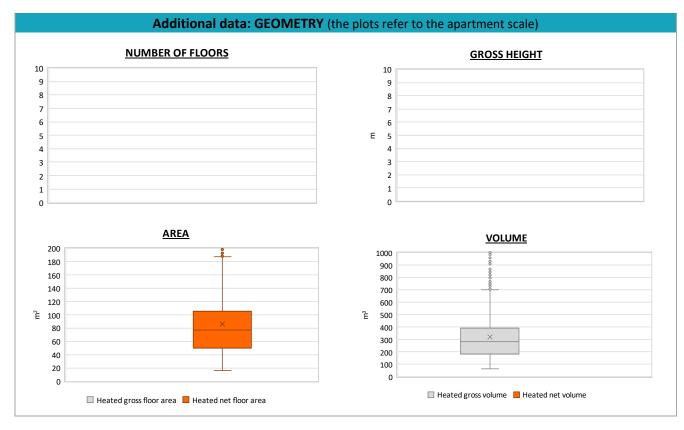
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	-	-	-	-	-
	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m ²	86.6	51.3	49.6	77.2	105.1
	Heated gross volume	V _{H;g}	m³	321.1	194.5	184.1	283.1	391.4
	Heated net volume	V _{H;n}	m³	-	-	-	-	-
S	Heating efficiency or COP	$\eta_{\sf H;gen}$ or $COP_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets				
THERMAL SYSTEMS	Total heating power *	P _{H;gen}	kW	24.9	5.0	23.7	24.2	28.0
	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	7.0	5.5	3.5	5.5	7.8
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0
	DHW system power *	P _{W;gen}	kW	22.5	8.6	23.2	24.0	27.5
	* These values refer to the apartment scale							





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