

 Region:
 Piedmont
 Archetype code:

 Building category:
 Residential buildings - Apartments (in multifamily blocks)
 RES_APPBLOCK_

 Period of construction:
 < 1930</td>
 1930_F_PIE

 Climatic zone:
 F
 Number of records:
 7739

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

External walls: solid brick masonry (cod. MLP01). Roof slabs: concrete floor slab (cod. SOL06).

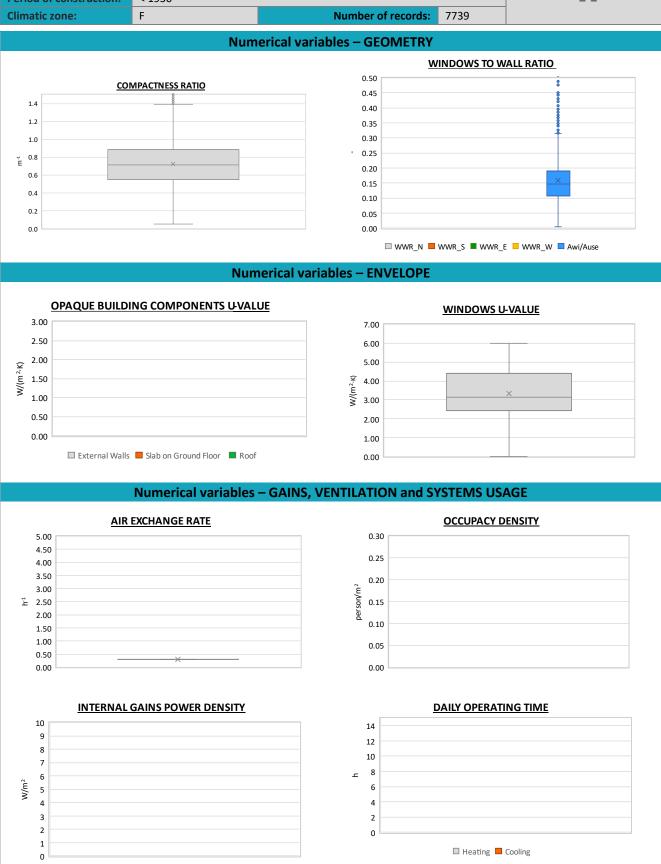
Data sources: EPC databases (100%)

Data Symbol Unit of Mean **Standard** Q1 (first Median Q3 (third measure value deviation quartile) value quartile) Number of floors $n_{\rm f}$ Gross height H_{g} m Footprint area $A_{\text{footprint}}$ m^2 Heated gross floor area m^2 $A_{H;g}$ **BUILDING GEOMETRY** Heated net floor area $A_{H;n}$ m² Heated gross volume m^3 $V_{\rm H;g}$ Heated net volume m^3 $V_{\rm H;n}$ Compactness ratio $A_{\rm env}/V_{\rm H;g}$ m^{-1} 0.73 0.29 0.55 0.71 0.88 WWR - North orientation WWR_{N} _ WWR - South orientation WWR_S WWR - East orientation WWR_E WWR - West orientation WWR_{W} Window to useful floor area 0.16 0.20 0.11 0.15 0.19 A_{wi}/A_{use} ratio Roof type U-value of the roof $W/(m^2 \cdot K)$ $U_{\mathsf{fl};\mathsf{up}}$ External walls type Solid Brick masonry: 89%; Unknown: 6%; Hollow brick masonry: 5% ENVELOPE U-value of the wall $W/(m^2 \cdot K)$ $U_{\rm wl}$ Slab on ground floor type *U*-value of the floor $U_{fl;\underline{lw}}$ $W/(m^2 \cdot K)$ Windows type *U*-value of the windows U_{W} $W/(m^2 \cdot K)$ 3.33 1.24 2.42 3.14 4.41 Shading system type person/m² UNI EN 16798-1 - Table A.19 Occupancy density * O_{C} /ENTILATION Lighting power density * W_{L} W/m^2 UNI EN 16798-1 - A.8.3 Equipment power density * UNI EN 16798-1 - A.8.3 W_A W/m² Type of ventilation Natural: 100% h-1 0.30 Air exchange rate * 0.30 0.00 0.30 0.30 n Autonomous: 89%; Centralized: 11% Heating system type Heating generator Daily operating time of the No limitation t_{H} heating system * **THERMAL SYSTEMS** Natural Gas: 72%; Solid biomass: 14%; LPG: 6%; Gas Oil: 4%; Electricity: 3%; District heating: 1% **Energy carrier** Heating emission sub-system Cooling system type Daily operating time of the h t_{C} cooling system * Cooling emission sub-system Autonomous, coupled with heating: 41%; Autonomous, detached from heating: 32%; Centralized, DHW system type coupled with heating: 24%; Centralized, detached from heating: 3% DHW generator

* These values are derived from UNI EN ISO Standards



Region:	Piedmont	Archetype code:		
Building category:	Residential buildings - Apartments (in multifamily blocks)			RES_APPBLOCK
Period of construction:	< 1930			1930_F_PIE
Climatic zone:	F	Number of records:	7739	





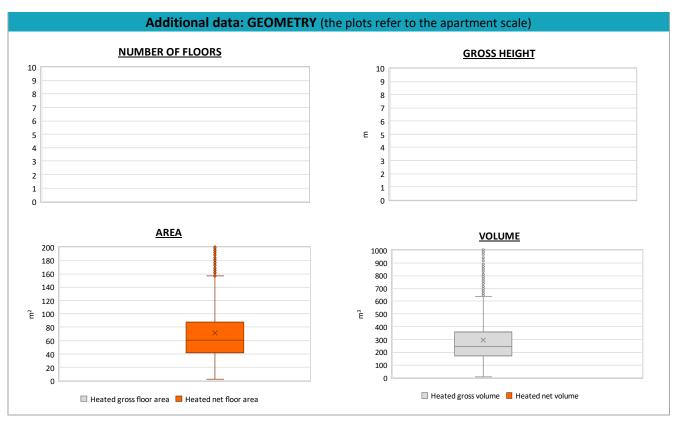
 Region:
 Piedmont
 Archetype code:

 Building category:
 Residential buildings - Apartments (in multifamily blocks)
 RES_APPBLOCK_

 Period of construction:
 < 1930</td>
 1930_F_PIE

 Climatic zone:
 F
 Number of records:
 7739

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}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m ²	71.6	46.4	42.1	60.3	88.0
	Heated gross volume	V _{H;g}	m³	293.9	198.6	170.1	245.4	358.0
U m	Heated net volume	V _{H;n}	m³	-	-	-	-	-
S	Heating efficiency or COP	η _{H;gen} or <i>COP</i> _{H;gen}	-	This value has to be retrieved from suitable datasheets				
THERMAL SYSTEMS	Total heating power *	P _{H;gen}	kW	21.7	8.1	19.0	24.0	26.0
	Cooling efficiency or EER	η _{C;gen} or EER _{C;gen}	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	P _{C;gen}	kW	5.6	3.0	3.5	4.9	7.0
ER	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0
Ĕ	DHW system power *	P _{W;gen}	kW	16.2	11.8	1.5	23.3	24.6
	* These values refer to the apartment s	scale						





Region:	Piedmont	Archetype code:		
Building category:	Residential buildings - Apartments (in multifamily blocks)			RES_APPBLOCK
Period of construction:	< 1930			1930_F_PIE
Climatic zone:	F	Number of records:	7739	

