

Region: **Piedmont** Archetype code: **Building category:** Residential buildings - Apartments (in multifamily blocks) RES APPBLOCK 2011-_F_PIE **Period of construction:** > 2010 Number of records: Climatic zone: 1165 F

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).

Data sources: EPC databases (100%)

Roof slabs: reinforced concrete floor slab (cod. SOL04). **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 $V_{\rm H;g}$ m^3 Heated net volume $V_{\rm H;n}$ Compactness ratio $A_{\rm env}/V_{\rm H;g}$ m^{-1} 0.62 0.24 0.45 0.64 0.75 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 0.20 0.07 0.15 0.20 0.24 A_{wi}/A_{use} ratio Roof type U-value of the roof $W/(m^2 \cdot K)$ $U_{fl;up}$ External walls type Hollow brick masonry: 73%; Solid Brick masonry: 19%; Unknown: 7%; Prefabricated panels: 1% 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} $W/(m^2 \cdot K)$ 1.59 0.68 1.20 1.44 1.74 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 * W/m² UNI EN 16798-1 - A.8.3 W_A Type of ventilation Natural: 100% h-1 0.30 Air exchange rate * 0.30 0.00 0.30 0.30 n Heating system type Autonomous: 61%; Centralized: 39% Heating generator Daily operating time of the No limitation t_{H} heating system * Natural Gas: 57%; Electricity: 25%; District heating: 8%; Solid biomass: 6%; LPG: 2%; Liquid and **THERMAL SYSTEMS Energy carrier** gaseous biomass: 1%; Gas Oil: 1% Heating emission sub-system Cooling system type Daily operating time of the h tc cooling system * Cooling emission sub-system Autonomous, coupled with heating: 47%; Centralized, coupled with heating: 35%; Autonomous, DHW system type detached from heating: 17%; Centralized, detached from heating: 1% DHW generator * These values are derived from UNI EN ISO Standards



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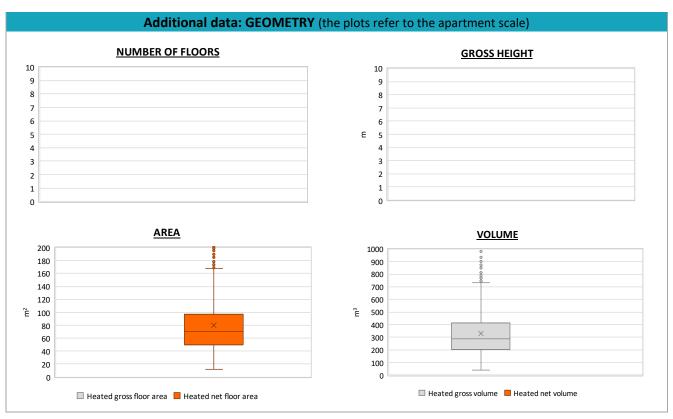
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
ν	Inter-storey height	H _n	m	-	-	-	-	-
TRY ent	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-
GEOMETRY: apartments	Heated net floor area	A _{H;n}	m ²	79.8	40.4	49.8	70.8	97.4
	Heated gross volume	V _{H;g}	m³	330.0	176.7	202.0	287.8	414.6
0 6	Heated net volume	V _{H;n}	m³	-	-	-	-	-
S	Heating efficiency or COP	$\eta_{\sf H;gen}$ or ${\it COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets				
THERMAL SYSTEMS	Total heating power *	P _{H;gen}	kW	20.7	9.7	11.7	23.7	27.6
	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	7.7	3.6	6.6	6.6	6.6
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0
	DHW system power *	P _{W;gen}	kW	20.0	10.8	9.6	24.0	27.7
	* These values refer to the apartment scale							





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