

Region: Piedmont							Archetype code:			
Building category: Residential bu		uildings - Ap	artments (in m	nultifamily	v blocks)		RES_APPBLOCK_1991-			
Period of construction: 1991-2000							2000_F_PIE			
imatic	zone:	F	Number of records: 1267							
escript	<b>tion</b> (the codes asso	ciated with walls	and slabs re	fer to the structu	ures descril	ped in UNI/TR	11552:2014):	Data s	ources:	
	<u>l walls</u> : hollow brid <u>bs</u> : reinforced cor	•		-	MCV02).			EPC datab	ases (100%)	
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (thire quartile	
	Number of floor	rs	nf	-	-	-	-	-	-	
	Gross height		Hg	m	-	-	-	-	-	
	Footprint area		A <sub>footprint</sub>	m²	-	-	-	-	-	
~	Heated gross floor area		A <sub>H;g</sub>	m²	-	-	-	-	-	
TR	Heated net floor area		A <sub>H;n</sub>	m²	-	-	-	-	-	
Building geometry	Heated gross volume		V <sub>H;g</sub>	m <sup>3</sup>	-	-	-	-	-	
3EO	Heated net volume		V <sub>H;n</sub>	m <sup>3</sup>	-	-	-	-	-	
ğ	Compactness ratio		A <sub>env</sub> /V <sub>H;g</sub>	m-1	0.63	0.24	0.43	0.64	0.77	
	WWR – North orientation		WWR <sub>N</sub>	-	-	-	-	-	-	
5	WWR – South orientation		WWRs	-	-	-	-	-	-	
	WWR – East orientation		WWR <sub>E</sub>	-	-	-	-	_	-	
	WWR – West orientation		WWRw	_	-	_	_	_	-	
	Window to usef ratio		A <sub>wi</sub> /A <sub>use</sub>	-	0.19	0.10	0.13	0.17	0.21	
	Roof type					-				
	U-value of the r	oof	U <sub>fl;up</sub>	W/(m²·K)	-	-	-	-	-	
	External walls ty				_ ck masonry	. 79%; Solid Br	ick masonry: 18	%; Unknown: 3%	1	
Ы	U-value of the v	-	U <sub>wl</sub>	W/(m <sup>2</sup> ·K)	-	-	-	-	-	
ENVELOPE	Slab on ground	floor type			1	-	I I		1	
	<i>U</i> -value of the f		U <sub>fl;lw</sub>	W/(m²·K)	-	-	-	_	-	
	Windows type		- 11,100		1	-	I I		1	
	<i>U</i> -value of the v	vindows	Uw	W/(m <sup>2</sup> ·K)	2.50	0.87	1.98	2.62	2.96	
	Shading system		0 10		2.50	-	1.50	2.02	2.50	
	Occupancy dens		O <sub>C</sub>							
NO	Lighting power		WL	W/m <sup>2</sup>						
AT	Equipment power	•			UNI EN 16798-1 - A.8.3					
Ē	Type of ventilat		W <sub>A</sub> W/m <sup>2</sup> UNI EN 16798-1 - A.8.3       Natural: 100%							
GAINS an VENTILATIO	Air exchange ra		n	h-1	0.30	0.00	0.30	0.30	0.30	
	ŭ		n				Centralized: 189		0.50	
	Heating system				Autor	10111003. 02%;	Centralizeu. 187	U		
		leating generator								
THERMAL SYSTEMS	heating system		t <sub>H</sub>	h			No limitat	tion		
	Energy carrier								lectricity: 3%	
		n sub-system	-							
	Heating emission sub-system -   Cooling system type -									
	Daily operating					-				
	cooling system		t <sub>C</sub>	h	-	-	-	-	-	
	Cooling emissio				1	-			1	
	DHW system ty		Autonomous, coupled with heating: 75%; Autonomous, detached from heating: 15%; Centralized, coupled with heating: 9%; Centralized, detached from heating: 1%							
	DHW generator		-							







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Period of construction:	1991-2000	2000_F_PIE			
Climatic zone:	F	Number of records:	1267		

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 <sub>n</sub>	m	-	-	-	-	-
	Heated gross floor area	A <sub>H;g</sub>	m²	-	-	-	-	-
	Heated net floor area	A <sub>H;n</sub>	m²	86.6	51.3	49.6	77.2	105.1
	Heated gross volume	V <sub>H;g</sub>	m <sup>3</sup>	321.1	194.5	184.1	283.1	391.4
0,0	Heated net volume	V <sub>H;n</sub>	m <sup>3</sup>	-	-	-	-	-
THERMAL SYSTEMS	Heating efficiency or COP	η <sub>H;gen</sub> or COP <sub>H;gen</sub>	-	This value has to be retrieved from suitable datasheets				tasheets
	Total heating power *	P <sub>H;gen</sub>	kW	24.9	5.0	23.7	24.2	28.0
	Cooling efficiency or EER	η <sub>C;gen</sub> or EER <sub>C;gen</sub>	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	P <sub>C;gen</sub>	kW	7.0	5.5	3.5	5.5	7.8
	Temperature of DHW	$\vartheta_{W}$	°C	40.0	0.0	40.0	40.0	40.0
É	DHW system power *	P <sub>W;gen</sub>	kW	22.5	8.6	23.2	24.0	27.5
	* These values refer to the apartment s	scale						

## Additional data: GEOMETRY (the plots refer to the apartment scale)





