

Region: Piedmont		Piedmont						Archetype code:		
Building category: Residential building category		uildings - Ap	artments (in n	hultifamily	/ blocks)		RES_APPBLOCK_1971-			
Period of construction: 1971-1980		1971-1980						1980_E_PIE		
imatio	zone:	E			Number	of records:	33754			
escrip	tion (the codes asso	ciated with walls	and slabs re	fer to the struct	ures descri	bed in UNI/TR	11552:2014):	Data s	ources:	
	<u>l walls</u> : hollow brig <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 (thir quartile	
	Number of floor	rs	nf	-	-	-	-	-	-	
	Gross height		Hg	m	-	-	-	-	-	
	Footprint area		A _{footprint}	m²	-	-	-	-	-	
_	Heated gross floor area		A _{H;g}	m²	-	-	-	-	-	
TR)	Heated net floor area		A _{H;n}	m²	-	-	-	-	-	
Ĕ	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
<u>e</u>	Heated net volume		V _{H;n}	m ³	-	-	-	-	-	
BUILDING GEOMETRY	Compactness ratio		A _{env} /V _{H;g}	m ⁻¹	0.56	1.06	0.34	0.56	0.71	
	WWR – North orientation		WWR _N	-	-	-	-	_	-	
5	WWR – South orientation		WWRs	-	-	-	-	-	-	
8	WWR – East orientation		WWR _E	_	-	-	_	_	-	
	WWR – West or		WWRw	_	-	-	-	-	-	
	Window to useful floor area ratio		A _{wi} /A _{use}	-	0.17	0.06	0.14	0.17	0.20	
	Roof type					-				
	U-value of the r	oof	U _{fl;up}	W/(m²⋅K)	-	-	-	-	-	
	External walls ty	/pe		brick masonry:	, 79%; Solid I	Brick masonry:	17%; Unknown	: 2%; Prefabricat	ed panels: 1%	
H	U-value of the v	vall	U _{wl}	W/(m²⋅K)	-	-	-	-	-	
ENVELOPE	Slab on ground	floor type			1	-			1	
Ž	U-value of the f		U _{fl;lw}	W/(m²·K)	-	-	-	-	-	
	Windows type		,		1	-		I	1	
	U-value of the windows		Uw	W/(m²·K)	3.28	1.29	2.28	3.10	4.49	
	Shading system			, (1	
_			O _C	O _C person/m ² UNI EN 16798-1 - Table A.19						
GAINS and VENTILATION		Occupancy density * Lighting power density *		W/m ²	UNI EN 16798-1 - Table A. 19 UNI EN 16798-1 - A.8.3					
	Equipment pow		WL WA	W/m ²	UNI EN 16798-1 - A.8.3 UNI EN 16798-1 - A.8.3					
	Type of ventilat		WA W/M² UNI EN 16/98-1 - A.8.3 Natural: 100% Natural: 100%							
	Air exchange ra		n	h-1	0.30	0.00	0.30	0.30	0.30	
	Heating system				1	1	utonomous: 439		0.50	
THERMAL SYSTEMS	Heating system				centi			-		
	Daily operating					-				
	heating system		t _H	h	14.00	0.00	14.00	14.00	14.00	
	Energy carrier		Natura	Gas: 80%; Elect	ricity: 7%;	District heating	g: 5%; Solid bion	nass: 4%; LPG: 2%	, 6; Gas Oil: 2%	
	Heating emissio	n sub-system								
	Cooling system									
	Daily operating cooling system	time of the	t _C	h	-	-	-	-	-	
	Cooling emissio									
	DHW system ty		Autonomous, detached from heating: 38%; Autonomous, coupled with heating: 36%; Centralized, coupled with heating: 19%; Centralized, detached from heating: 7%							
	DHW generator		-							







Region:	Region: Piedmont				
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Period of construction:	1971-1980	1980_E_PIE			
Climatic zone:	E	Number of records:	33754		

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}	m²	87.1	40.5	64.9	80.0	99.1
	Heated gross volume	V _{H;g}	m ³	333.9	167.7	244.4	303.6	379.1
0,0	Heated net volume	V _{H;n}	m ³	-	-	-	-	-
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P _{H;gen}	kW	24.4	6.1	23.6	24.0	28.0
	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	5.0	3.6	3.0	3.8	6.0
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0
É	DHW system power *	P _{W;gen}	kW	18.6	10.1	12.0	23.1	24.5
	* These values refer to the apartment s	scale						

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





