

 Region:
 Trentino Alto Adige
 Archetype code:

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

 Period of construction:
 <1930</td>
 -1930_E_TN

 Climatic zone:
 E
 Number of records:
 4107

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

External walls: no data available Roof slabs: no data available

Data sources: APE (100%)

				1						
	Data	Symbol	Unit of	Mean	Standard deviation	Q1 (first	Median	Q3 (third		
BUILDING GEOMETRY	Number of floors	n _f	measure	value	deviation	quartile)	value -	quartile)		
	Gross height	Иg	m	_		_		_		
	Footprint area	A _{footprint}	m ²	_		-	-	_		
	Heated gross floor area	A _{H;g}	m ²	_	-	-	-	_		
	Heated net floor area	Ан;g Ан;n	m ²	830	953	370	483	737		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	- 757		
	Heated net volume	V _{H;n}	m³	3631	4492	1557	2087	3259		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.51	0.13	0.43	0.50	0.58		
	WWR – North orientation	WWR _N	-	- 0.51	-	-	-	- 0.56		
=	WWR – South orientation	WWR _S		_	_	_	_	_		
Ĭ 8	WWR – East orientation	WWR _E	-	_	_	-	-	_		
	WWR – West orientation	WWR _W	_	_	_	-		-		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	-	-	-	-	-		
	Roof type									
	U-value of the roof	$U_{\mathrm{fl;up}}$	W/(m ² ·K)	_	_	_	-	_		
	External walls type	O fi;up	vv/(iii ·k)	_		_		_		
퓚	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	_	_	_	_	_		
ENVELOPE	Slab on ground floor type	Owl	vv/(iii ix)		_					
	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	_	_	_	_	_		
	Windows type	Offi;IW	vv/(III IX)		_					
	<i>U</i> -value of the windows	U _w	W/(m ² ·K)	_	_	_	_	_		
	Shading system type	O W	****		_					
	Occupancy density *	O _C	O _C person/m ² UNI EN 16798-1 - Table A.19							
GAINS and	Lighting power density *	W _L	W/m ²	UNI EN 16798-1 - A.8.3						
IS a LAT	Equipment power density *	W _A	W/m ²	UNI EN 16798-1 - A.8.3						
GAINS and ENTILATION	Type of ventilation	· · · ·	***************************************	Natural: 100%						
A A	Air exchange rate *	n	h ⁻¹	0.30 0.00 0.30 0.30 0.30						
	Heating system type			tonomous: 54%, Centralized: 14%, Unknown: 32%						
	Heating generator	Traditional boiler: 14%; Air source heat pump: 3%, Condensing boiler: 9%, Boiler (unknown type): 68%, DHC: 1%, Unknown: 5%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	14	0	14	14	14		
	Energy carrier	Natural gas: 95%, Electricity: 1%, Gas Oil: 2%, Solid biomass: 1%, LPG: 1%								
	Heating emission sub-system	-								
	Cooling system type	Air-cooled chiller: 2%, Unknown: 98%								
	Daily operating time of the cooling system *	t _C	h	0	0	0	0	0		
	Cooling emission sub-system	-								
	DHW system type	Autonomous – coupled with heating: 59%, Autonomous - detached from heating: 9%, Centralized – coupled with heating: 11%, Unknown: 21%								
	DHW generator	Natural gas boiler: 70%, Electric boiler: 2%, Electric Heat Pump: 7%, Unknown: 21%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									



Region: Trentino Alto Adige Archetype code: **Building category:** Residential buildings - Apartments (in multifamily blocks) RES APPBLOCK -1930_E_TN **Period of construction:** <1930 4107 apts Climatic zone: Ε **Number of records:**



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.

0

(cc) (i) (ii)

☐ Heating Cooling



 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_
-1930_E_TN

 Period of construction:
 <1930</td>
 -1930_E_TN

 Climatic zone:
 E
 Number of records:
 4107

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	89	38	63	78	102		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m³	370	168	260	323	428		
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	34	77	24	25	29		
	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	15	31	4	6	14		
	Temperature of DHW	ϑw	°C	40	0	40	40	40		
Ē	DHW system power *	P _{W;gen}	kW	34	77	24	25	29		
	* These values refer to the apartment	scale								





