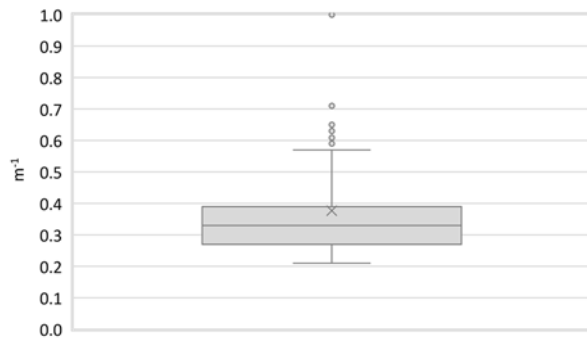


Region:	Sicily					Archetype code: RES_APPBLOCK_ 1961-1970_B_SIC		
Building category:	Residential buildings – Apartments (in multifamily blocks)							
Period of construction:	1961-1970							
Climatic zone:	B	Number of records:			92			
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: double layer of hollow bricks (8 cm + 12 cm) with uninsulated air gap (cod. MCV01). Roof slabs: reinforced brick-concrete slab (22 cm) plus uninsulated concrete screed (4 cm) (cod. SOL04)						Data sources: Survey data (40%) Expert assumptions (35%) Municipal database (11%) Others (14%) #		
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
BUILDING GEOMETRY	Number of floors	n_f	-	7.63	2.11	6.00	6.00	10.00
	Gross height	H_g	m	-	-	-	-	-
	Footprint area	$A_{\text{footprint}}$	m ²	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m ²	-	-	-	-	-
	Heated net floor area	$A_{H;n}$	m ²	-	-	-	-	-
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H;n}$	m ³	-	-	-	-	-
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.38	0.15	0.27	0.33	0.39
	WWR – North orientation	WWR_N	-	0.22	0.08	0.13	0.23	0.29
	WWR – South orientation	WWR_S	-	0.25	0.03	0.24	0.25	0.27
	WWR – East orientation	WWR_E	-	0.27	0.12	0.20	0.29	0.44
	WWR – West orientation	WWR_W	-	0.19	0.12	0.06	0.19	0.36
	Window to useful floor area ratio	A_{wi}/A_{use}	-	0.17	0.04	0.15	0.16	0.21
ENVELOPE	Roof type	Reinforced brick-concrete slab: 100%						
	U-value of the roof	$U_{\text{fl;up}}$	W/(m ² ·K)	1.34	0.60	0.56	1.62	1.85
	External walls type	Hollow brick masonry: 100%						
	U-value of the wall	U_{wl}	W/(m ² ·K)	1.02	0.07	0.95	0.99	1.10
	Slab on ground floor type	Reinforced brick-concrete slab: 100%						
	U-value of the floor	$U_{\text{fl;lw}}$	W/(m ² ·K)	1.59	0.18	1.55	1.55	1.80
	Windows type	Single glazing, aluminium frame: 50%, Double glazing, aluminium frame with thermal break: 44%, Double glazing, PVC frame: 3%, Double glazing, aluminium frame, no thermal break: 3%						
	U-value of the windows	U_{W}	W/(m ² ·K)	4.70	1.18	3.60	4.30	5.92
Shading system type	Shutter: 100%							
GAINS and VENTILATION	Occupancy density *	O_{C}	person/m ²	UNI EN 16798-1 - Table A.19				
	Lighting power density *	W_{L}	W/m ²	UNI EN 16798-1 - A.8.3				
	Equipment power density *	W_{A}	W/m ²	UNI EN 16798-1 - A.8.3				
	Type of ventilation	Natural: 100%						
	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30
THERMAL SYSTEMS	Heating system type	Autonomous: 72%, Absent: 28%						
	Heating generator	Traditional boiler: 68%, Air source heat pump: 32%						
	Daily operating time of the heating system *	t_{H}	h	8.00	0.00	8.00	8.00	8.00
	Energy carrier	Natural gas: 68%, Electricity: 32%						
	Heating emission sub-system	Radiators: 68%, Fan coil: 32%						
	Cooling system type	Air-cooled chiller: 70%, Absent: 30%						
	Daily operating time of the cooling system *	t_{C}	h	8.00	0.00	8.00	8.00	8.00
	Cooling emission sub-system	Fan coil: 100%						
	DHW system type	Autonomous - coupled with heating: 50%, Autonomous - detached from heating: 50%						
	DHW generator	Natural gas boiler: 52%, Electric boiler: 48%						
	# Standards (13%), Simulation (1%). * These values were not available in the considered sources, and are thus derived from UNI EN Standards							

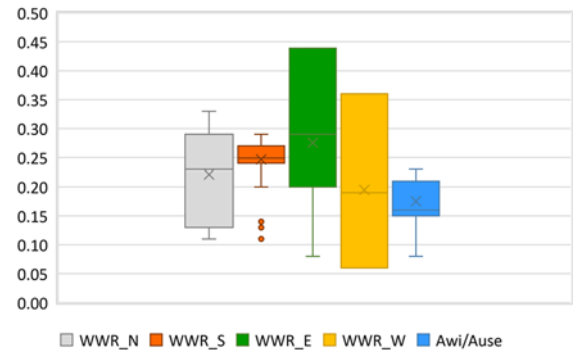
Region:	Sicily	Archetype code: RES_APPBLOCK_ 1961-1970_B_SIC
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1961-1970	
Climatic zone:	B	
Number of records:		92

Numerical variables – GEOMETRY

COMPACTNESS RATIO



WINDOWS TO WALL RATIO

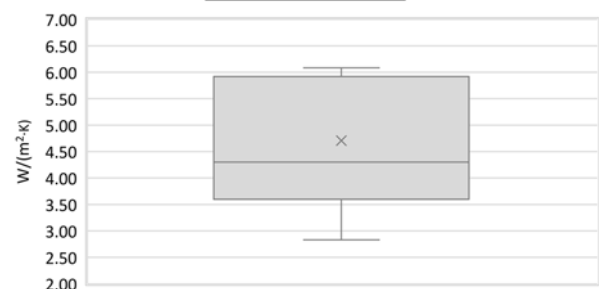


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE



WINDOWS U-VALUE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE



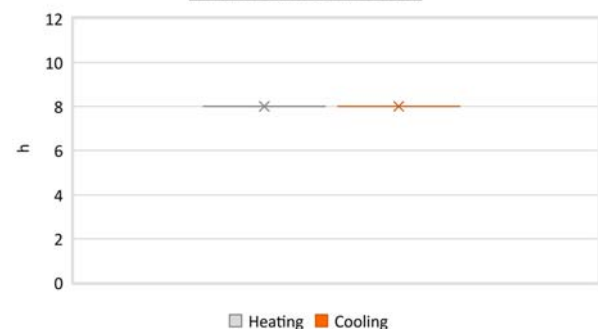
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



DAILY OPERATING TIME



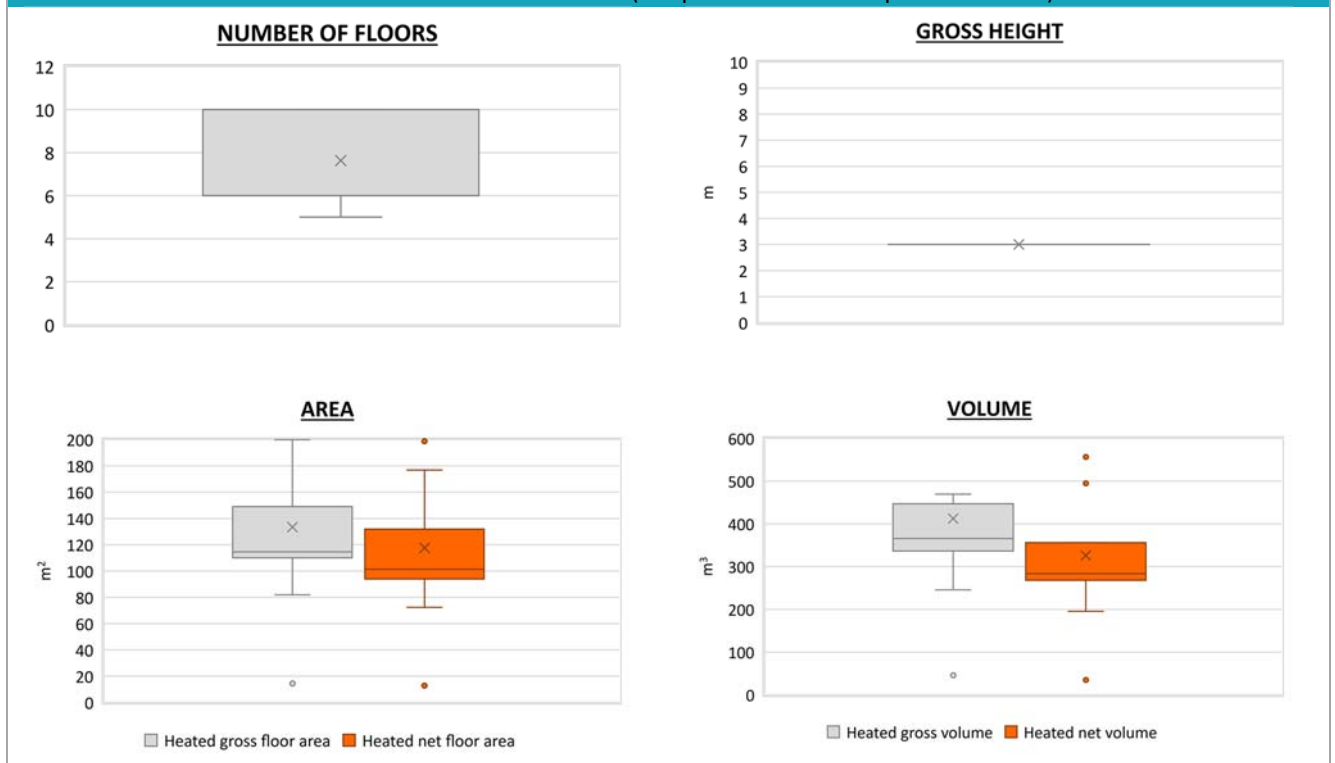
The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

Region:	Sicily	Archetype code: RES_APPBLOCK_ 1961-1970_B_SIC
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1961-1970	
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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	3.01	0.00	3.00	3.00	3.10
	Heated gross floor area	$A_{H,g}$	m ²	133.33	45.52	110.00	114.55	149.10
	Heated net floor area	$A_{H,n}$	m ²	117.57	40.47	94.00	101.30	131.87
	Heated gross volume	$V_{H,g}$	m ³	412.39	143.16	336.60	365.55	447.30
	Heated net volume	$V_{H,n}$	m ³	325.81	114.63	267.95	283.64	356.12
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{H,gen}$ Or $COP_{H,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	$P_{H,gen}$	kW	15.75	7.17	9.20	20.00	20.00
	Cooling efficiency or EER	$\eta_{C,gen}$ Or $EER_{C,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	$P_{C,gen}$	kW	3.48	2.72	2.30	2.30	2.30
	Temperature of DHW	θ_w	°C	40.00	0.00	40.00	40.00	40.00
	DHW system power *	$P_{W,gen}$	kW	10.81	9.45	1.20	10.00	20.00

* These values refer to the apartment scale

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



Region:	Sicily	Archetype code: RES_APPBLOCK_ 1961-1970_B_SIC
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1961-1970	
Climatic zone:	B	
Number of records:		92

Additional data: other numerical variables that are not included in the archetype

