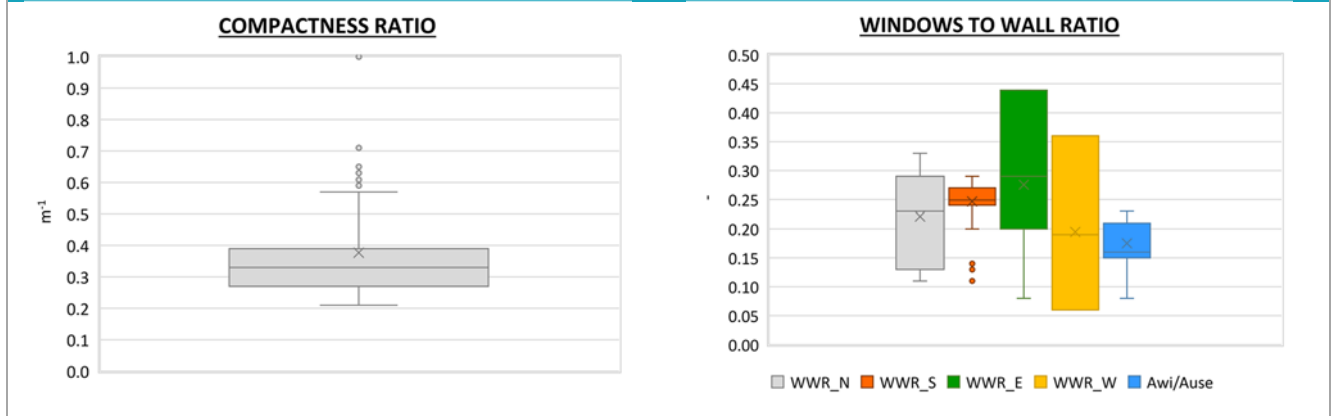


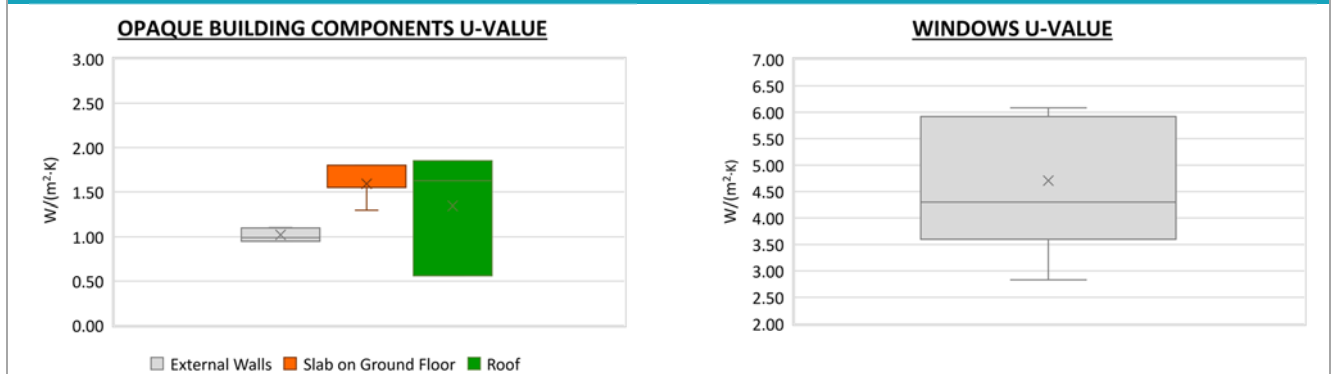
Region:		Sicily					Archetype code: RES_APPBLOCK_ 1961-1970_B_SIC	
Building category:		Residential buildings – Apartments (in multifamily blocks)						
Period of construction:		1961-1970						
Climatic zone:		B	Number of records:		92			
Description (the codes associated with walls and slabs refer to 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	$U_{f;up}$	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	$U_{f;l,w}$	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
GAINS and VENTILATION	Shading system type	Shutter: 100%						
	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							

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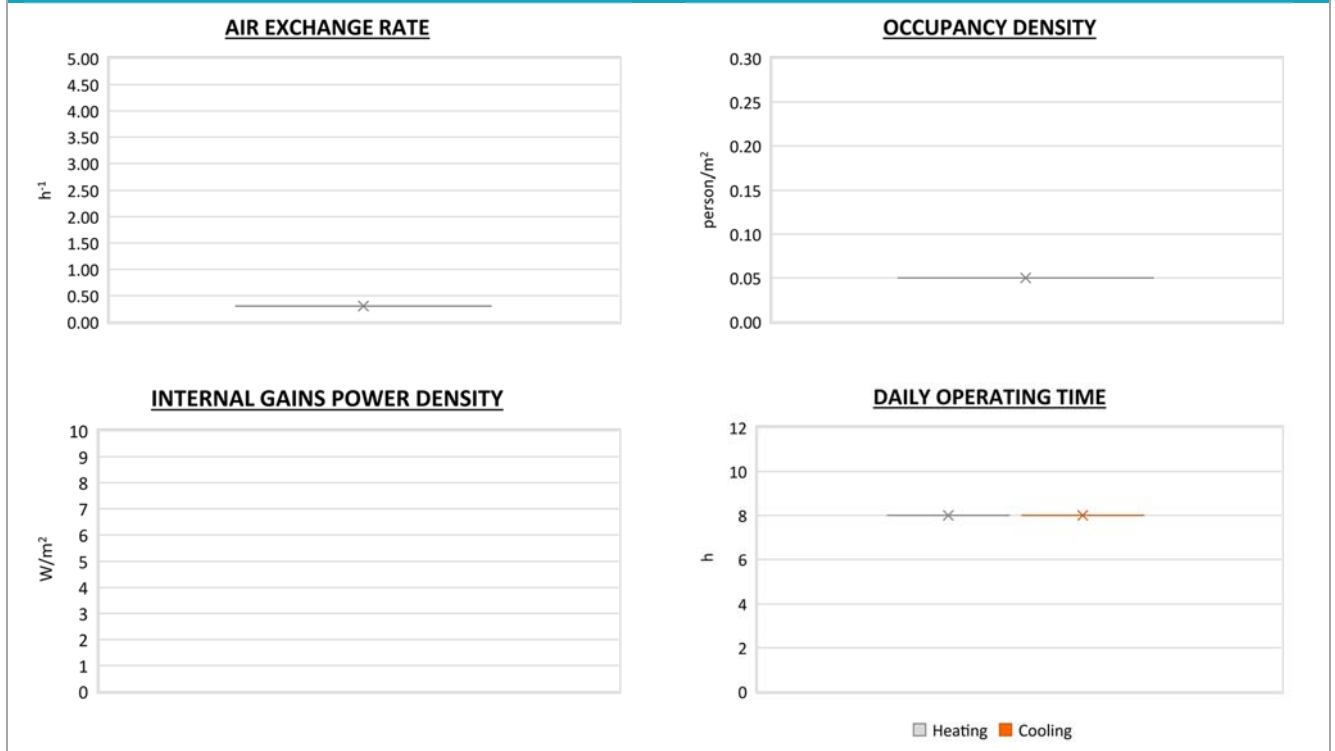
Numerical variables – GEOMETRY



Numerical variables – ENVELOPE



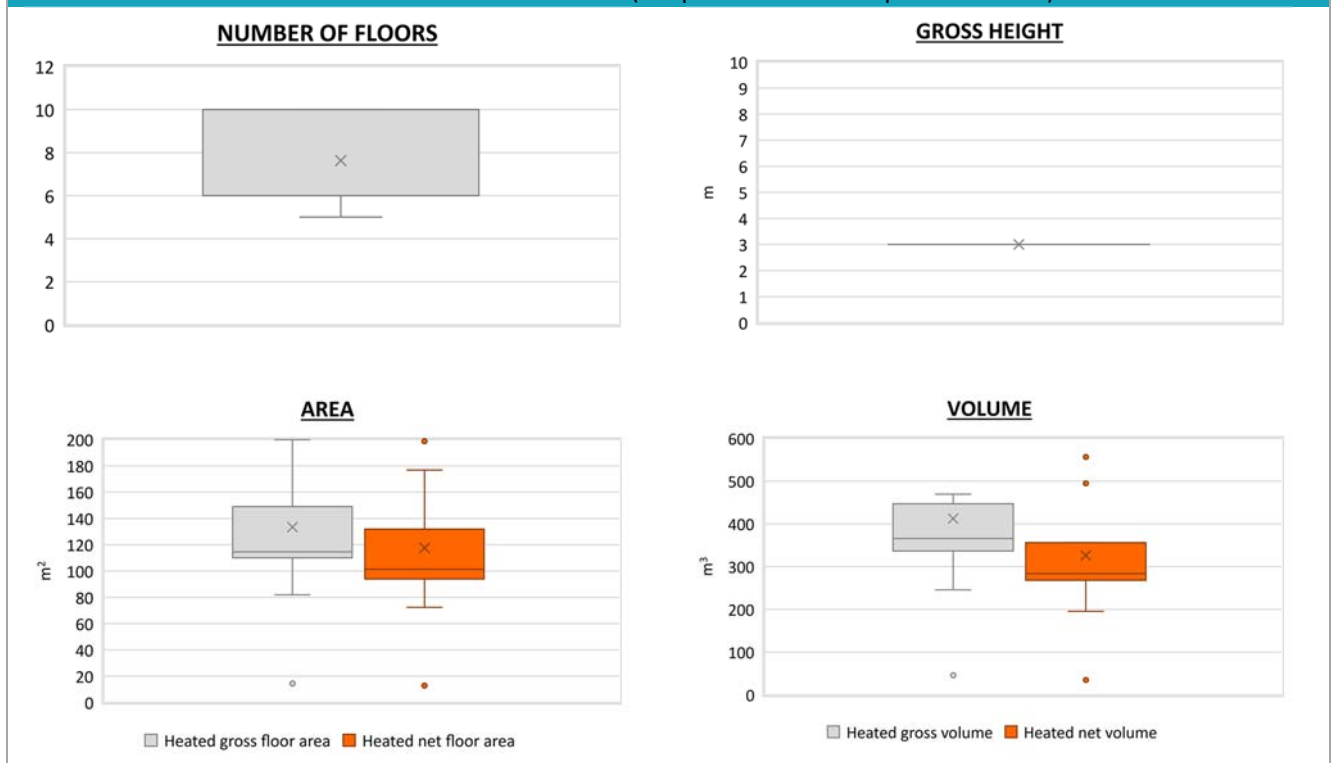
Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



Region:	Sicily	Archetype code: RES_APPBLOCK_ 1961-1970_B_SIC
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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
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Additional data: other numerical variables that are not included in the archetype

