Region:	Trentino			**Archetype code:** CATR_ 1991-2000_F_TN
Building category:	Catering buildings			
Period of construction:	1991-2000			
Climatic zone:	F	**Number of records:**	98	

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: EPC databases (100%)

	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
BUILDING GEOMETRY	Number of floors	n_f	-	-	-	-	-	-
	Gross height	H_g	m	-	-	-	-	-
	Footprint area	$A_{footprint}$	m^2	-	-	-	-	-
	Heated gross floor area	$A_{H;g}$	m^2	-	-	-	-	-
	Heated net floor area	$A_{H;n}$	m^2	214	296	101	164	271
	Heated gross volume	$V_{H;g}$	m^3	-	-	-	-	-
	Heated net volume	$V_{H;n}$	m^3	893	1159	406	645	1018
	Compactness ratio	$A_{env}/V_{H;g}$	m^{-1}	0.68	0.18	0.53	0.67	0.79
	WWR – North orientation	WWR_N	-	-	-	-	-	-
	WWR – South orientation	WWR_S	-	-	-	-	-	-
	WWR – East orientation	WWR_E	-	-	-	-	-	-
	WWR – West orientation	WWR_W	-	-	-	-	-	-
	Window to useful floor area ratio	A_{wi}/A_{use}	-	-	-	-	-	-
ENVELOPE	Roof type	-						
	U-value of the roof	$U_{fl;up}$	$W/(m^2 \cdot K)$	-	-	-	-	-
	External walls type	-						
	U-value of the wall	U_{wl}	$W/(m^2 \cdot K)$	-	-	-	-	-
	Slab on ground floor type	-						
	U-value of the floor	$U_{fl;lw}$	$W/(m^2 \cdot K)$	-	-	-	-	-
	Windows type	-						
	U-value of the windows	U_W	$W/(m^2 \cdot K)$	-	-	-	-	-
	Shading system type	-						
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}	UNI EN 16798-1				
THERMAL SYSTEMS	Heating system type	Unknown 36%; Autonomous: 35%; Centralized: 29%						
	Heating generator	Boiler (unknown type): 97%; Air-source heat pump: 2%; Fireplace: 1%						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	Electricity: 40%; Electricity from PV, wind turbines, hydraulic turbines: 40%; District heating: 20%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 97%; Air-cooled chiller: 3%						
	Daily operating time of the cooling system *	t_C	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 36%; Unknown: 29%; Autonomous - detached from heating: 19%; Centralized – coupled with heating: 13%; District heating: 3%						
	DHW generator	Natural gas boiler: 64%; Electric Heat Pump: 19%; Unknown 10% Electric boiler: 6%; Solar thermal: 1%						
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards							

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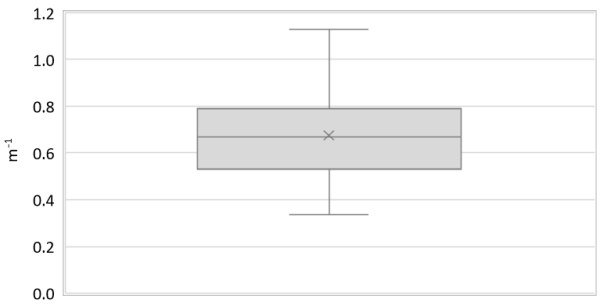
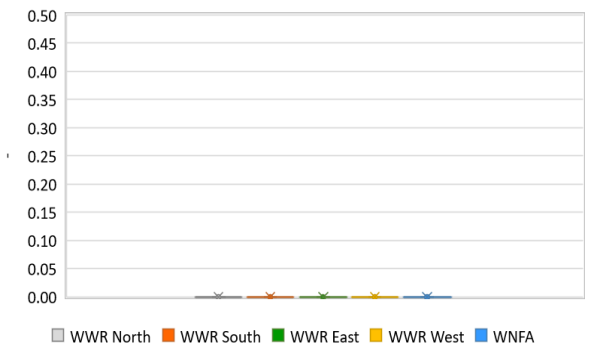
Building category:	Catering buildings			CATR_ 1991-2000_F_TN
Period of construction:	1991-2000			
Climatic zone:	F	**Number of records:**	98	

Numerical variables – GEOMETRY

COMPACTNESS RATIO

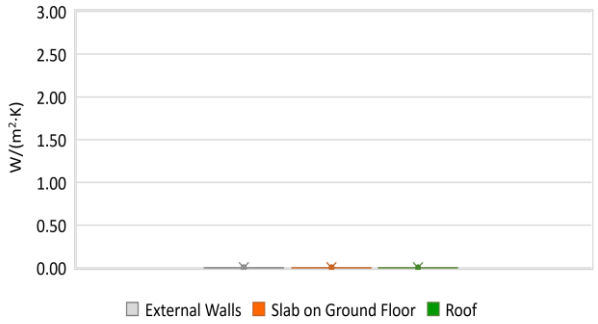


WINDOWS TO WALL RATIO

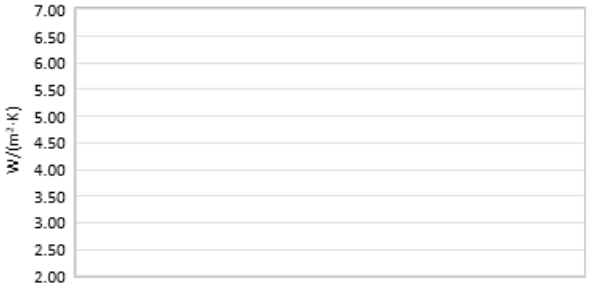


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

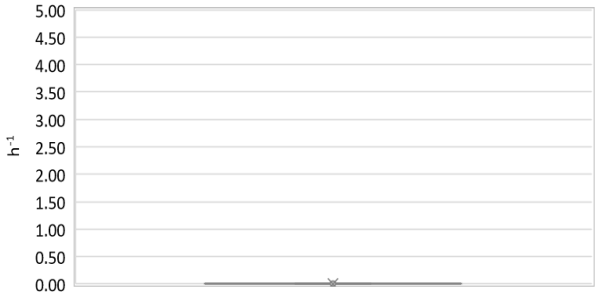


WINDOWS U-VALUE



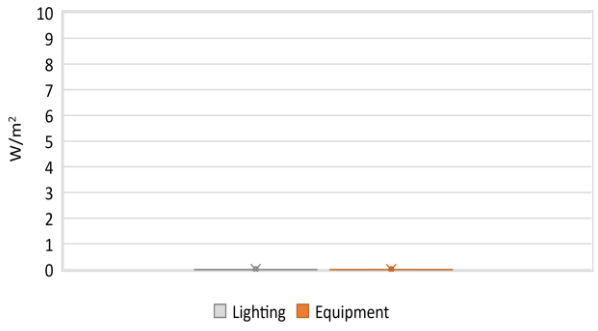
Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE

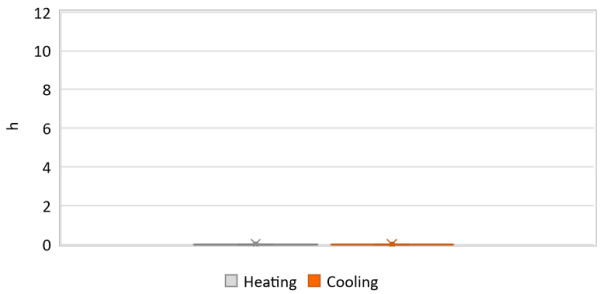


OCCUPANCY DENSITY

INTERNAL GAINS POWER DENSITY



DAILY OPERATING TIME



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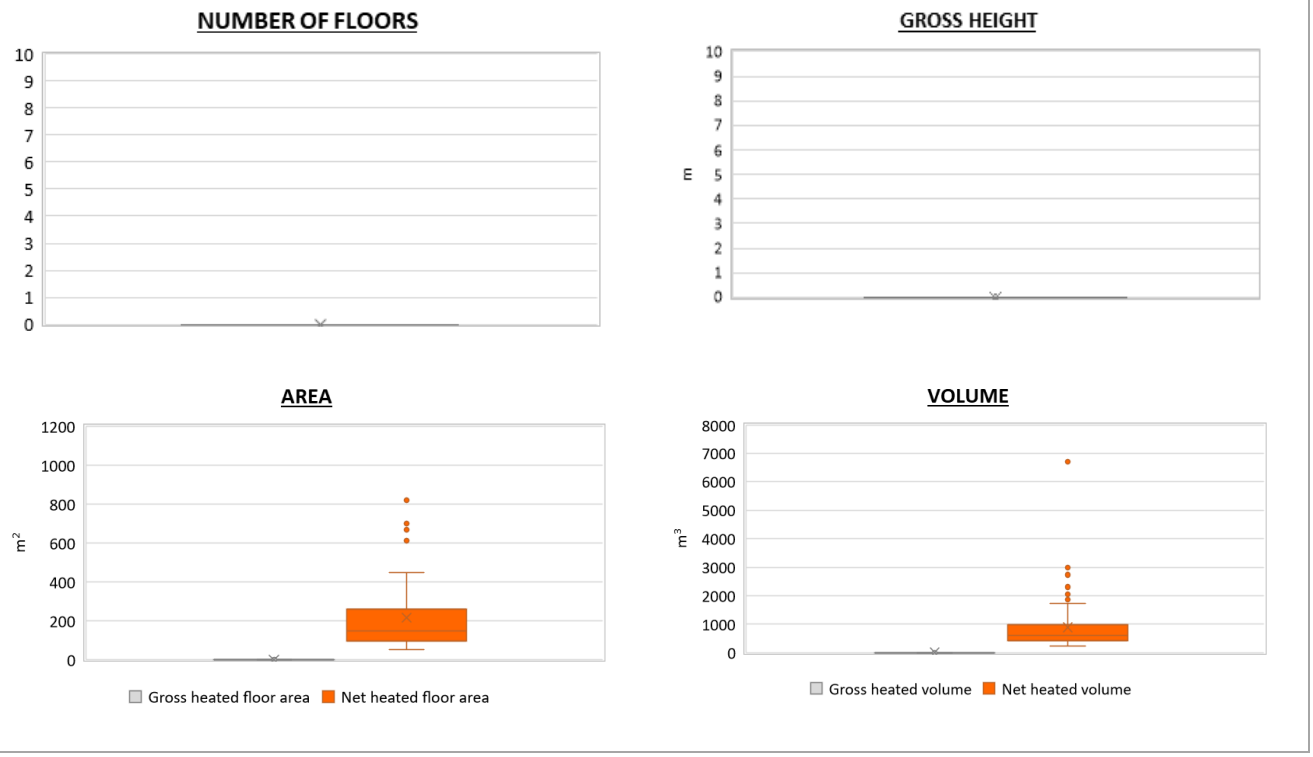
Building category:	Catering buildings			CATR_ 1991-2000_F_TN
Period of construction:	1991-2000			
Climatic zone:	F	**Number of records:**	98	

ADDITIONAL DATA								
	Data	**Symbol**	**Unit of measure**	**Mean value**	**Standard deviation**	**Q1 (first quartile)**	**Median value**	**Q3 (third quartile)**
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	72	93	29	35	78
	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	15	21	4	5	22
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W;gen}$	kW	48	93	25	32	71

Additional data: GEOMETRY



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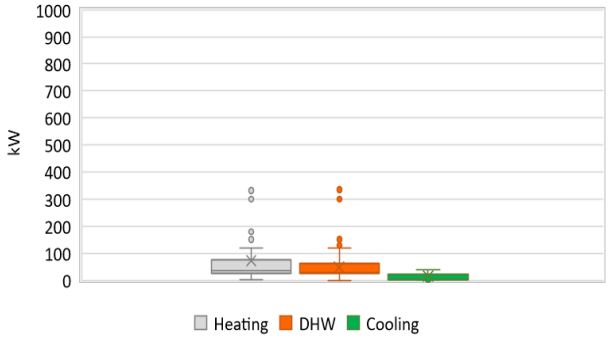
Building category:	Catering buildings			CATR_ 1991-2000_F_TN
Period of construction:	1991-2000			
Climatic zone:	F	**Number of records:**	98	

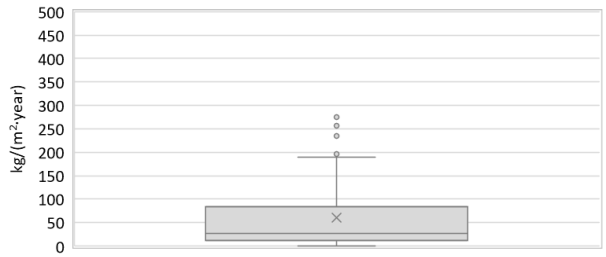
Additional data: other numerical variables that are not included in the archetype

DHW SUPPLY TEMPERATURE

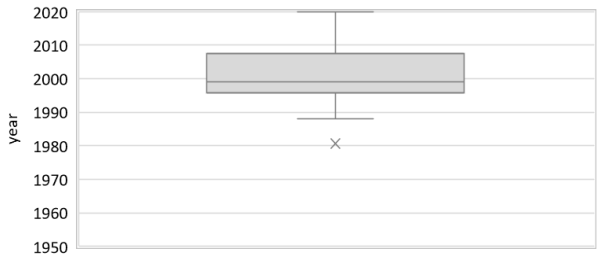
SYSTEM POWER



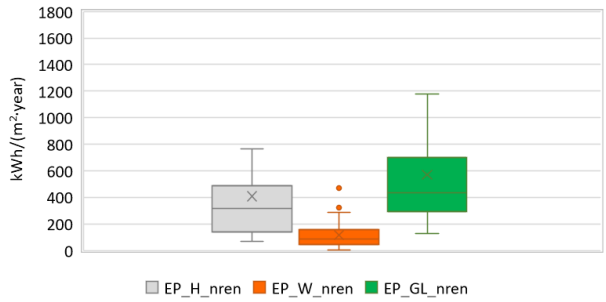
CO_2 EMISSION



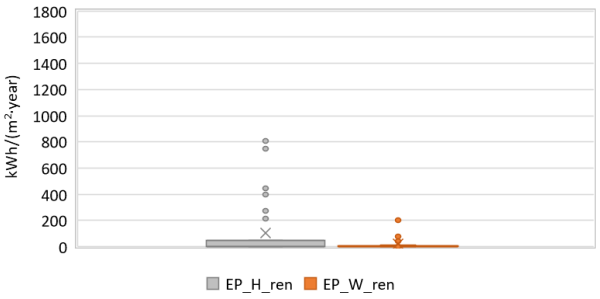
HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE



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