

Dedicated Outdoor Air System (DOAS) Sizing Summary for Sistema_cen 12 h

Project Name: 1701P HAP_Olivillo_v2 170214 OG
Prepared by: INGHO fm

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Air System Information

Air System Name Sistema_cen 12 h
Equipment Class TERM
Air System Type VRF

Number of zones 1
Floor Area 1594,9 m²
Location Cádiz, Spain

Sizing Calculation Information

Calculation Months Jan to Dec
Sizing Data Calculated

Zone L/s Sizing Sum of space airflow rates
Space L/s Sizing Individual peak space loads

NOTE: No other data is applicable for a Terminal Units air system without a Dedicated Outdoor Air System (DOAS).

Ventilation Sizing Summary for Sistema_cen 12 h

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1. Summary

Ventilation Sizing Method Sum of Space OA Airflows

2. Space Ventilation Analysis

2.1 Zone: Zone 1

Zone Name / Space Name	Mult.	Floor Area (m²)	Maximum Occupants	Maximum Supply Air (L/s)	Required Outdoor Air (L/s/person)	Required Outdoor Air (L/(s·m²))	Required Outdoor Air (L/s)	Required Outdoor Air (% of supply)	Uncorrected Outdoor Air (L/s)
Zone 1									
P1_Incubadora_cen	1	18,4	4,0	146,8	12,50	0,00	0,0	0,0	50,0
P1_Sala_Cata_cen	1	64,0	20,0	551,5	8,00	0,00	0,0	0,0	160,0
P2_CircEspra_Cen	1	22,0	6,0	166,2	0,00	0,00	0,0	0,0	0,0
P2_IngFabVirt_Cen	1	238,7	42,0	1582,6	12,50	0,00	0,0	0,0	525,0
P3_CircEspera_Cen	1	22,0	6,0	150,7	0,00	0,00	0,0	0,0	0,0
P3_Dsp_Diafano_Cen	1	224,9	32,0	1316,9	12,50	0,00	0,0	0,0	400,0
P4_CircEspera_Cen	1	22,0	6,0	166,2	0,00	0,00	0,0	0,0	0,0
P4_Despacho_cen	1	20,7	1,0	155,1	12,50	0,00	0,0	0,0	12,5
P4_DespCatedra_Cen(2)	1	17,1	1,0	113,7	12,50	0,00	0,0	0,0	12,5
P4_DspCatedra_Cen(1)	1	17,4	2,0	93,6	12,50	0,00	0,0	0,0	25,0
P4_Lab_AV_cen	1	79,1	11,0	624,7	12,50	0,00	0,0	0,0	137,5
P4_Lab_UGV_cen	1	79,1	11,0	582,1	12,50	0,00	0,0	0,0	137,5
PB_Conserjería_cen	1	11,4	2,0	88,4	12,50	0,00	0,0	0,0	25,0
PB_EspEvent_cen	1	192,0	80,0	1155,5	8,00	0,00	0,0	0,0	640,0
PB_S.CoWork_Cen	1	224,8	32,0	1314,9	12,50	0,00	0,0	0,0	400,0
NS1_NaveEnsayos	1	220,3	4,0	739,2	0,00	0,00	72,0	0,0	72,0
P1_Salon_Act_der	1	92,8	82,0	841,4	8,00	0,00	0,0	0,0	656,0
P1_Dsp_UCA_izq	1	15,2	2,0	469,1	12,50	0,00	0,0	0,0	25,0
P3_Dsp_JServ_izq	1	13,0	1,0	63,0	12,50	0,00	0,0	0,0	12,5
Totals (incl. Space Multipliers)				10321,7					3290,5

Air System Design Load Summary for Sistema_cen 12 h

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	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,5 °C / 22,8 °C			HEATING OA DB / WB 4,2 °C / 1,8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	200 m²	25514	-	200 m²	-	-
Wall Transmission	624 m²	1938	-	624 m²	4607	-
Roof Transmission	213 m²	1118	-	213 m²	1902	-
Window Transmission	200 m²	4128	-	200 m²	11293	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	1576 m²	5961	-	1576 m²	32294	-
Partitions	1096 m²	2489	-	1096 m²	15141	-
Ceiling	1363 m²	5154	-	1363 m²	27922	-
Overhead Lighting	15949 W	13060	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	28440 W	26141	-	0	0	-
People	345	19167	20727	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	7327	1451	4%	3726	0
>> Total Zone Loads	-	111997	22178	-	96884	0
Zone Conditioning	-	109820	22178	-	95754	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Exhaust Fan Load	0 L/s	0	-	0 L/s	0	-
Ventilation Load	3291 L/s	31833	21977	3291 L/s	65659	0
Ventilation Fan Load	0 L/s	0	-	0 L/s	0	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	0%	0	-	0%	0	-
>> Total System Loads	-	141653	44156	-	161413	0
Terminal Unit Cooling	-	141653	44180	-	0	0
Terminal Unit Heating	-	0	-	-	161413	-
>> Total Conditioning	-	141653	44180	-	161413	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.1.A. Component Loads For Space "P1_Incubadora_cen" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1700 COOLING OA DB / WB 31,4 °C / 22,5 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	2 m²	464	-	2 m²	-	-
Wall Transmission	8 m²	24	-	8 m²	57	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	2 m²	37	-	2 m²	113	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	18 m²	58	-	18 m²	377	-
Partitions	46 m²	96	-	46 m²	630	-
Ceiling	18 m²	58	-	18 m²	377	-
Overhead Lighting	184 W	153	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	480 W	444	-	0	0	-
People	4	226	240	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	109	17	4%	62	0
>> Total Zone Loads	-	1670	257	-	1616	0

TABLE 1.1.B. Envelope Loads For Space "P1_Incubadora_cen" In Zone "Zone 1"						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·K))	Coeff.	TRANS	SOLAR	TRANS
WSW EXPOSURE				(W)	(W)	(W)
WALL	8	0,437	-	24	-	57
WINDOW 1	2	3,339	0,811	37	464	113

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.2.A. Component Loads For Space "P1_Sala_Cata_cen" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Sep 1600 COOLING OA DB / WB 31,4 °C / 22,2 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	13 m²	2629	-	13 m²	-	-
Wall Transmission	29 m²	101	-	29 m²	216	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	13 m²	220	-	13 m²	734	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	64 m²	162	-	64 m²	1311	-
Partitions	19 m²	32	-	19 m²	263	-
Ceiling	64 m²	162	-	64 m²	1311	-
Overhead Lighting	640 W	524	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	1000 W	919	-	0	0	-
People	20	1111	1202	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	410	84	4%	153	0
>> Total Zone Loads	-	6272	1286	-	3989	0

TABLE 1.2.B. Envelope Loads For Space "P1_Sala_Cata_cen" In Zone "Zone 1"						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
SSE EXPOSURE						
WALL	18	0,437	-	75	-	131
WINDOW 1	6	3,339	0,811	102	1038	339
WSW EXPOSURE						
WALL	12	0,437	-	26	-	85
WINDOW 1	7	3,339	0,811	119	1591	395

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TABLE 1.3.A. Component Loads For Space "P2_CircEspra_Cen" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1800 COOLING OA DB / WB 29,2 °C / 22,0 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	8 m²	1040	-	8 m²	-	-
Wall Transmission	5 m²	11	-	5 m²	39	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	8 m²	107	-	8 m²	452	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	16 m²	21	-	16 m²	324	-
Partitions	39 m²	35	-	39 m²	540	-
Ceiling	16 m²	21	-	16 m²	324	-
Overhead Lighting	220 W	185	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	6	346	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	124	25	4%	67	0
>> Total Zone Loads	-	1890	386	-	1746	0

TABLE 1.3.B. Envelope Loads For Space "P2_CircEspra_Cen" In Zone "Zone 1"						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
NNW EXPOSURE						
WALL	5	0,437	-	11	-	39
WINDOW 1	8	3,339	0,811	107	1040	452

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TABLE 1.4.A. Component Loads For Space "P2_IngFabVirt_Cen" In Zone "Zone 1"

DESIGN COOLING				DESIGN HEATING		
COOLING DATA AT Aug 1600 COOLING OA DB / WB 32,5 °C / 22,8 °C OCCUPIED T-STAT 23,9 °C				HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	32 m²	4783	-	32 m²	-	-
Wall Transmission	101 m²	354	-	101 m²	745	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	32 m²	660	-	32 m²	1807	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	239 m²	903	-	239 m²	4890	-
Partitions	116 m²	297	-	116 m²	1608	-
Ceiling	239 m²	903	-	239 m²	4890	-
Overhead Lighting	2387 W	1955	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	5040 W	4633	-	0	0	-
People	42	2333	2523	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	1177	177	4%	558	0
>> Total Zone Loads	-	17998	2700	-	14498	0

TABLE 1.4.B. Envelope Loads For Space "P2_IngFabVirt_Cen" In Zone "Zone 1"

	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
WSW EXPOSURE						
WALL	23	0,437	-	65	-	167
WINDOW 1	8	3,339	0,811	165	1682	452
NNE EXPOSURE						
WALL	19	0,437	-	31	-	140
WINDOW 1	4	3,339	0,811	83	259	226
ESE EXPOSURE						
WALL	17	0,437	-	82	-	128
WINDOW 1	6	3,339	0,811	124	890	339
SSE EXPOSURE						
WALL	16	0,437	-	62	-	121
WINDOW 1	6	3,339	0,811	124	793	339
SE EXPOSURE						
WALL	26	0,437	-	114	-	188
WINDOW 1	8	3,339	0,811	165	1159	452

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TABLE 1.5.A. Component Loads For Space "P3_CircEspera_Cen" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1700 COOLING OA DB / WB 30,9 °C / 22,5 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	8 m²	781	-	8 m²	-	-
Wall Transmission	9 m²	19	-	9 m²	64	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	8 m²	135	-	8 m²	452	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	16 m²	40	-	16 m²	324	-
Partitions	39 m²	66	-	39 m²	540	-
Ceiling	16 m²	40	-	16 m²	324	-
Overhead Lighting	220 W	183	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	6	340	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	112	25	4%	68	0
>> Total Zone Loads	-	1714	386	-	1771	0

TABLE 1.5.B. Envelope Loads For Space "P3_CircEspera_Cen" In Zone "Zone 1"						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
NNW EXPOSURE						
WALL	4	0,437	-	8	-	32
WINDOW 1	4	3,339	0,811	67	442	226
NNE EXPOSURE						
WALL	4	0,437	-	11	-	32
WINDOW 1	4	3,339	0,811	67	339	226

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TABLE 1.6.A. Component Loads For Space "P3_Dsp_Diafano_Cen" In Zone "Zone 1"

		DESIGN COOLING		DESIGN HEATING		
		COOLING DATA AT Aug 1600		HEATING DATA AT DES HTG		
		COOLING OA DB / WB 32,5 °C / 22,8 °C		HEATING OA DB / WB 4,2 °C / 1,8 °C		
		OCCUPIED T-STAT 23,9 °C		OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	32 m²	4783	-	32 m²	-	-
Wall Transmission	96 m²	336	-	96 m²	706	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	32 m²	660	-	32 m²	1807	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	225 m²	851	-	225 m²	4608	-
Partitions	12 m²	30	-	12 m²	162	-
Ceiling	225 m²	851	-	225 m²	4608	-
Overhead Lighting	2249 W	1842	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	3120 W	2868	-	0	0	-
People	32	1778	1923	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	980	135	4%	476	0
>> Total Zone Loads	-	14977	2057	-	12365	0

TABLE 1.6.B. Envelope Loads For Space "P3_Dsp_Diafano_Cen" In Zone "Zone 1"

				COOLING	COOLING	HEATING
		Area	U-Value	TRANS	SOLAR	TRANS
		(m²)	(W/(m²·K))	Coeff.	(W)	(W)
WSW EXPOSURE						
WALL	21	0,437	-	62	-	158
WINDOW 1	8	3,339	0,811	165	1682	452
NNE EXPOSURE						
WALL	18	0,437	-	30	-	134
WINDOW 1	4	3,339	0,811	83	259	226
ESE EXPOSURE						
WALL	16	0,437	-	78	-	121
WINDOW 1	6	3,339	0,811	124	890	339
SSE EXPOSURE						
WALL	16	0,437	-	58	-	114
WINDOW 1	6	3,339	0,811	124	793	339
SE EXPOSURE						
WALL	24	0,437	-	108	-	179
WINDOW 1	8	3,339	0,811	165	1159	452

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TABLE 1.7.A. Component Loads For Space "P4_CircEspera_Cen" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1800 COOLING OA DB / WB 29,2 °C / 22,0 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	8 m²	1040	-	8 m²	-	-
Wall Transmission	5 m²	11	-	5 m²	39	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	8 m²	107	-	8 m²	452	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	16 m²	21	-	16 m²	324	-
Partitions	39 m²	35	-	39 m²	540	-
Ceiling	16 m²	21	-	16 m²	324	-
Overhead Lighting	220 W	185	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	6	346	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	124	25	4%	67	0
>> Total Zone Loads	-	1890	386	-	1746	0

TABLE 1.7.B. Envelope Loads For Space "P4_CircEspera_Cen" In Zone "Zone 1"						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
NNW EXPOSURE						
WALL	5	0,437	-	11	-	39
WINDOW 1	8	3,339	0,811	107	1040	452

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TABLE 1.8.A. Component Loads For Space "P4_Despacho_cen" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Oct 1400 COOLING OA DB / WB 30,3 °C / 21,7 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	4 m²	1028	-	4 m²	-	-
Wall Transmission	10 m²	32	-	10 m²	76	-
Roof Transmission	21 m²	14	-	21 m²	184	-
Window Transmission	4 m²	48	-	4 m²	226	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	21 m²	18	-	21 m²	424	-
Partitions	32 m²	19	-	32 m²	442	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	207 W	164	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	300 W	272	-	0	0	-
People	1	53	60	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	115	4	4%	54	0
>> Total Zone Loads	-	1764	64	-	1407	0

TABLE 1.8.B. Envelope Loads For Space "P4_Despacho_cen" In Zone "Zone 1"						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
SSE EXPOSURE						
WALL	10	0,437	-	32	-	76
WINDOW 1	4	3,339	0,811	48	1028	226
H EXPOSURE						
ROOF	21	0,527	-	14	-	184

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.9.A. Component Loads For Space "P4_DespCatedra_Cen(2)" In Zone "Zone 1"

		DESIGN COOLING		DESIGN HEATING		
		COOLING DATA AT Aug 1700		HEATING DATA AT DES HTG		
		COOLING OA DB / WB 31,4 °C / 22,5 °C		HEATING OA DB / WB 4,2 °C / 1,8 °C		
		OCCUPIED T-STAT 23,9 °C		OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	2 m²	464	-	2 m²	-	-
Wall Transmission	8 m²	24	-	8 m²	57	-
Roof Transmission	17 m²	84	-	17 m²	152	-
Window Transmission	2 m²	37	-	2 m²	113	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	17 m²	53	-	17 m²	350	-
Partitions	33 m²	69	-	33 m²	455	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	171 W	142	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	300 W	277	-	0	0	-
People	1	57	60	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	85	4	4%	45	0
>> Total Zone Loads	-	1293	64	-	1172	0

TABLE 1.9.B. Envelope Loads For Space "P4_DespCatedra_Cen(2)" In Zone "Zone 1"

				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
WSW EXPOSURE						
WALL	8	0,437	-	24	-	57
WINDOW 1	2	3,339	0,811	37	464	113
H EXPOSURE						
ROOF	17	0,527	-	84	-	152

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.10.A. Component Loads For Space "P4_DspCatedra_Cen(1)" In Zone "Zone 1"

		DESIGN COOLING		DESIGN HEATING		
		COOLING DATA AT Jul 1600 COOLING OA DB / WB 32,5 °C / 22,8 °C OCCUPIED T-STAT 23,9 °C		HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	2 m²	164	-	2 m²	-	-
Wall Transmission	8 m²	18	-	8 m²	57	-
Roof Transmission	17 m²	91	-	17 m²	155	-
Window Transmission	2 m²	41	-	2 m²	113	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	17 m²	66	-	17 m²	356	-
Partitions	34 m²	86	-	34 m²	464	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	174 W	142	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	300 W	276	-	0	0	-
People	2	111	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	70	8	4%	46	0
>> Total Zone Loads	-	1065	129	-	1191	0

TABLE 1.10.B. Envelope Loads For Space "P4_DspCatedra_Cen(1)" In Zone "Zone 1"

				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
NNE EXPOSURE						
WALL	8	0,437	-	18	-	57
WINDOW 1	2	3,339	0,811	41	164	113
H EXPOSURE						
ROOF	17	0,527	-	91	-	155

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.11.A. Component Loads For Space "P4_Lab_AV_cen" In Zone "Zone 1"

DESIGN COOLING				DESIGN HEATING		
COOLING DATA AT Jul 1600 COOLING OA DB / WB 32,5 °C / 22,8 °C OCCUPIED T-STAT 23,9 °C				HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	7 m²	574	-	7 m²	-	-
Wall Transmission	42 m²	169	-	42 m²	308	-
Roof Transmission	79 m²	414	-	79 m²	705	-
Window Transmission	7 m²	144	-	7 m²	395	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	79 m²	299	-	79 m²	1621	-
Partitions	55 m²	140	-	55 m²	759	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	791 W	648	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	3960 W	3640	-	0	0	-
People	11	611	661	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	465	46	4%	151	0
>> Total Zone Loads	-	7104	707	-	3939	0

TABLE 1.11.B. Envelope Loads For Space "P4_Lab_AV_cen" In Zone "Zone 1"

				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
ESE EXPOSURE						
WALL	30	0,437	-	141	-	222
NNE EXPOSURE						
WALL	12	0,437	-	27	-	86
WINDOW 1	7	3,339	0,811	144	574	395
H EXPOSURE						
ROOF	79	0,527	-	414	-	705

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.12.A. Component Loads For Space "P4_Lab_UGV_cen" In Zone "Zone 1"

DESIGN COOLING				DESIGN HEATING		
COOLING DATA AT Aug 1700 COOLING OA DB / WB 31,4 °C / 22,5 °C OCCUPIED T-STAT 23,9 °C				HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	7 m²	1625	-	7 m²	-	-
Wall Transmission	42 m²	163	-	42 m²	308	-
Roof Transmission	79 m²	387	-	79 m²	705	-
Window Transmission	7 m²	131	-	7 m²	395	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	79 m²	247	-	79 m²	1621	-
Partitions	55 m²	116	-	55 m²	759	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	791 W	657	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	2420 W	2237	-	0	0	-
People	11	623	661	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	433	46	4%	151	0
>> Total Zone Loads	-	6620	707	-	3939	0

TABLE 1.12.B. Envelope Loads For Space "P4_Lab_UGV_cen" In Zone "Zone 1"

				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
SSE EXPOSURE						
WALL	30	0,437	-	126	-	222
WSW EXPOSURE						
WALL	12	0,437	-	37	-	86
WINDOW 1	7	3,339	0,811	131	1625	395
H EXPOSURE						
ROOF	79	0,527	-	387	-	705

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.13.A. Component Loads For Space "PB_Conserjería_cen" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1500 COOLING OA DB / WB 33,0 °C / 22,9 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	0 m²	0	-	0 m²	0	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	11 m²	45	-	11 m²	234	-
Partitions	38 m²	101	-	38 m²	526	-
Ceiling	11 m²	45	-	11 m²	234	-
Overhead Lighting	114 W	92	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	600 W	548	-	0	0	-
People	2	109	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	66	8	4%	40	0
>> Total Zone Loads	-	1005	129	-	1033	0

TABLE 1.13.B. Envelope Loads For Space "PB_Conserjería_cen" In Zone "Zone 1"						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.14.A. Component Loads For Space "PB_EspEvent_cen" In Zone "Zone 1"

		DESIGN COOLING		DESIGN HEATING		
		COOLING DATA AT Jul 1700		HEATING DATA AT DES HTG		
		COOLING OA DB / WB 31,4 °C / 22,5 °C		HEATING OA DB / WB 4,2 °C / 1,8 °C		
		OCCUPIED T-STAT 23,9 °C		OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	25 m²	3285	-	25 m²	-	-
Wall Transmission	101 m²	241	-	101 m²	744	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	25 m²	467	-	25 m²	1412	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	192 m²	601	-	192 m²	3934	-
Partitions	106 m²	223	-	106 m²	1460	-
Ceiling	192 m²	601	-	192 m²	3934	-
Overhead Lighting	1920 W	1595	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	800 W	740	-	0	0	-
People	80	4530	4806	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	860	336	4%	459	0
>> Total Zone Loads	-	13142	5143	-	11942	0

TABLE 1.14.B. Envelope Loads For Space "PB_EspEvent_cen" In Zone "Zone 1"

				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
NNW EXPOSURE						
WALL	22	0,437	-	40	-	161
WINDOW 1	2	3,339	0,811	37	198	113
WNW EXPOSURE						
WALL	17	0,437	-	50	-	126
WINDOW 1	3	3,339	0,811	56	606	169
NNE EXPOSURE						
WALL	17	0,437	-	43	-	126
WINDOW 1	4	3,339	0,811	75	317	226
NNW EXPOSURE						
WALL	19	0,437	-	35	-	140
WINDOW 1	2	3,339	0,811	37	198	113
WNW EXPOSURE						
WALL	17	0,437	-	50	-	127
WINDOW 1	7	3,339	0,811	131	1413	395
NNE EXPOSURE						
WALL	9	0,437	-	22	-	64
WINDOW 1	7	3,339	0,811	131	554	395

Space Design Load Summary for Sistema_cen 12 h

Project Name: 1701P HAP_Olivillo_v2 170214 OG
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TABLE 1.15.A. Component Loads For Space "PB_S.CoWork_Cen" In Zone "Zone 1"

		DESIGN COOLING		DESIGN HEATING		
		COOLING DATA AT Aug 1600 COOLING OA DB / WB 32,5 °C / 22,8 °C OCCUPIED T-STAT 23,9 °C		HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	32 m²	4783	-	32 m²	-	-
Wall Transmission	101 m²	354	-	101 m²	745	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	32 m²	660	-	32 m²	1807	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	225 m²	850	-	225 m²	4606	-
Partitions	116 m²	-9	-	116 m²	1608	-
Ceiling	225 m²	850	-	225 m²	4606	-
Overhead Lighting	2248 W	1841	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	3120 W	2868	-	0	0	-
People	32	1778	1923	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	978	135	4%	535	0
>> Total Zone Loads	-	14954	2057	-	13906	0

TABLE 1.15.B. Envelope Loads For Space "PB_S.CoWork_Cen" In Zone "Zone 1"

				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
WSW EXPOSURE						
WALL	23	0,437	-	65	-	167
WINDOW 1	8	3,339	0,811	165	1682	452
NNE EXPOSURE						
WALL	19	0,437	-	31	-	140
WINDOW 1	4	3,339	0,811	83	259	226
ESE EXPOSURE						
WALL	17	0,437	-	82	-	128
WINDOW 1	6	3,339	0,811	124	890	339
SSE EXPOSURE						
WALL	16	0,437	-	62	-	121
WINDOW 1	6	3,339	0,811	124	793	339
SE EXPOSURE						
WALL	26	0,437	-	114	-	188
WINDOW 1	8	3,339	0,811	165	1159	452

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.16.A. Component Loads For Space "NS1_NaveEnsayos" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1500 COOLING OA DB / WB 33,0 °C / 22,9 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	0 m²	0	-	0 m²	0	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	220 m²	867	-	220 m²	4513	-
Partitions	207 m²	549	-	207 m²	2861	-
Ceiling	220 m²	867	-	220 m²	4513	-
Overhead Lighting	2203 W	1776	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	2200 W	2010	-	0	0	-
People	4	218	240	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	440	17	4%	476	0
>> Total Zone Loads	-	6726	257	-	12364	0

TABLE 1.16.B. Envelope Loads For Space "NS1_NaveEnsayos" In Zone "Zone 1"						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.17.A. Component Loads For Space "P1_Salon_Act_der" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1600 COOLING OA DB / WB 32,5 °C / 22,8 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	14 m²	1677	-	14 m²	-	-
Wall Transmission	42 m²	147	-	42 m²	310	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	14 m²	289	-	14 m²	790	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	93 m²	351	-	93 m²	1901	-
Partitions	49 m²	124	-	49 m²	672	-
Ceiling	93 m²	351	-	93 m²	1901	-
Overhead Lighting	928 W	760	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	750 W	689	-	0	0	-
People	82	4556	4927	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	626	345	4%	223	0
>> Total Zone Loads	-	9570	5271	-	5797	0

TABLE 1.17.B. Envelope Loads For Space "P1_Salon_Act_der" In Zone "Zone 1"						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
ESE EXPOSURE						
WALL	19	0,437	-	91	-	140
WINDOW 1	6	3,339	0,811	124	890	339
NNE EXPOSURE						
WALL	14	0,437	-	23	-	105
WINDOW 1	4	3,339	0,811	83	259	226
SSE EXPOSURE						
WALL	9	0,437	-	33	-	64
WINDOW 1	4	3,339	0,811	83	528	226

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.18.A. Component Loads For Space "P1_Dsp_UCA_izq" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Oct 1600 COOLING OA DB / WB 30,3 °C / 21,7 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	4 m²	1102	-	4 m²	-	-
Wall Transmission	12 m²	37	-	12 m²	85	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	4 m²	53	-	4 m²	226	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	15 m²	20	-	15 m²	311	-
Partitions	31 m²	27	-	31 m²	423	-
Ceiling	15 m²	20	-	15 m²	311	-
Overhead Lighting	152 W	124	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	3800 W	3493	-	0	0	-
People	2	111	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	349	8	4%	54	0
>> Total Zone Loads	-	5335	129	-	1411	0

TABLE 1.18.B. Envelope Loads For Space "P1_Dsp_UCA_izq" In Zone "Zone 1"						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
SSW EXPOSURE						
WALL	12	0,437	-	37	-	85
WINDOW 1	4	3,339	0,811	53	1102	226

Space Design Load Summary for Sistema_cen 12 h

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TABLE 1.19.A. Component Loads For Space "P3_Dsp_JServ_Izq" In Zone "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1500 COOLING OA DB / WB 33,0 °C / 22,9 °C OCCUPIED T-STAT 23,9 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,2 °C / 1,8 °C OCCUPIED T-STAT 21,1 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	7 m²	15	-	7 m²	52	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	0 m²	0	-	0 m²	0	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	13 m²	51	-	13 m²	266	-
Partitions	31 m²	82	-	31 m²	428	-
Ceiling	13 m²	51	-	13 m²	266	-
Overhead Lighting	130 W	105	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	250 W	228	-	0	0	-
People	1	54	60	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	7% / 7%	41	4	4%	41	0
>> Total Zone Loads	-	629	64	-	1054	0

TABLE 1.19.B. Envelope Loads For Space "P3_Dsp_JServ_Izq" In Zone "Zone 1"						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m²)	(W/(m²·K))	Coeff.	(W)	(W)	(W)
NNE EXPOSURE						
WALL	7	0,437	-	15	-	52