

Air System Sizing Summary for Sistema N3

Project Name: Tribunales San Lorenzo

02/23/2022

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Air System Information

Air System Name: Sistema N3
Air System Type:..... Fan Coils/WSHPs

Number of zones: 15
Floor Area:..... 302.2 sqm
Location:..... San Lorenzo, Argentina

Sizing Calculation Information

Calculation Months:.....Jan to Dec

Calculation method: Transfer Function Method

Zone Sizing Data

Zone Name	Maximum Cooling Sensible kW	Design Airflow L/s	Time of Peak Load	Maximum Heating Load kW	Zone Floor Area sqm	Zone L/(s-sqm)
*N3 - Administrativo 1	4.2	312	Jan 1500	3.1	27.6	11.29
*N3 - Administrativo 2	4.4	325	Jan 1500	3.0	27.6	11.78
*N3 - Juez 1	2.0	147	Jan 1500	1.9	11.7	12.58
*N3 - Juez 2	2.4	177	Jan 1500	1.8	11.7	15.12
*N3 - M. Entrada Civil 1	1.4	105	Jan 1700	1.5	13.3	7.90
*N3 - M. Entrada Civil 2	1.4	105	Jan 1700	1.5	13.3	7.90
*N3 - Pasillo 1	2.7	197	Jan 1500	2.9	16.6	11.89
*N3 - Pasillo 2	2.6	194	Jan 1500	2.8	16.6	11.68
*N3 - Quiebras 1	1.7	125	Jan 1700	1.8	12.0	10.44
*N3 - Quiebras 2	1.7	124	Jan 1700	1.7	12.0	10.36
*N3 - Sala Audiencias	4.2	308	Jan 1500	2.7	22.0	14.01
*N3 - Santa Fe Serv.	1.4	104	Jan 1700	1.5	11.6	8.94
*N3 - Secretaría Juez 1	1.7	125	Jan 1700	1.6	8.8	14.20
*N3 - Secretaría Juez 2	1.7	123	Jan 1700	1.5	8.8	13.98
*N3 Paso público	12.6	930	Jan 1500	13.1	88.6	10.49

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Loads kW	Sensible Coil Load kW	Coil Entering DB/WB C	Coil Leaving DB/WB C	Time of Peak Load
*N3 - Administrativo 1	6.1	4.6	25.4 / 18.5	13.1 / 12.5	Jan 1600
*N3 - Administrativo 2	6.4	4.9	25.5 / 18.5	13.1 / 12.5	Jan 1500
*N3 - Juez 1	2.9	2.2	25.4 / 18.4	13.1 / 12.5	Jan 1600
*N3 - Juez 2	3.4	2.6	25.4 / 18.4	13.1 / 12.5	Dec 1500
*N3 - M. Entrada Civil 1	2.1	1.5	25.5 / 18.9	13.6 / 13.0	Jan 1700
*N3 - M. Entrada Civil 2	2.1	1.5	25.5 / 18.9	13.6 / 13.0	Jan 1700
*N3 - Pasillo 1	3.9	2.9	25.4 / 18.4	13.1 / 12.5	Jan 1400
*N3 - Pasillo 2	3.9	2.9	25.3 / 18.3	12.9 / 12.2	Dec 1500
*N3 - Quiebras 1	2.5	1.9	25.4 / 18.5	13.1 / 12.4	Jan 1500
*N3 - Quiebras 2	2.5	1.9	25.3 / 18.4	12.9 / 12.3	Dec 1500
*N3 - Sala Audiencias	6.0	4.6	25.4 / 18.4	13.1 / 12.5	Dec 1500
*N3 - Santa Fe Serv.	2.1	1.5	25.3 / 18.6	13.2 / 12.6	Dec 1700
*N3 - Secretaría Juez 1	2.4	1.9	25.5 / 18.4	13.1 / 12.5	Jan 1500
*N3 - Secretaría Juez 2	2.4	1.8	25.4 / 18.4	13.1 / 12.5	Dec 1500
*N3 Paso público	18.6	13.9	25.4 / 18.4	13.0 / 12.4	Jan 1400

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load kW	Heating Coil Ent/Lvg DB C	Fan Design Airflow L/s	Fan Motor BHP	Fan Motor kW	Vent Design Airflow L/s
*N3 - Administrativo 1	3.8	19.1 / 29.3	312	0.00	0.00	31
*N3 - Administrativo 2	3.8	19.1 / 28.8	325	0.00	0.00	33
*N3 - Juez 1	2.3	19.2 / 31.9	147	0.00	0.00	15
*N3 - Juez 2	2.2	19.1 / 29.5	177	0.00	0.00	18
*N3 - M. Entrada Civil 1	1.7	19.1 / 32.6	105	0.00	0.00	11
*N3 - M. Entrada Civil 2	1.7	19.1 / 32.6	105	0.00	0.00	11
*N3 - Pasillo 1	3.4	19.2 / 33.3	197	0.00	0.00	20
*N3 - Pasillo 2	3.3	19.2 / 33.3	194	0.00	0.00	19
*N3 - Quiebras 1	2.1	19.3 / 33.4	125	0.00	0.00	13
*N3 - Quiebras 2	2.0	19.1 / 32.8	124	0.00	0.00	12
*N3 - Sala Audiencias	3.4	19.1 / 28.2	308	0.00	0.00	31

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*N3 - Santa Fe Serv.	1.7	19.1 / 32.8	104	0.00	0.00	10
*N3 - Secretaría Juez 1	1.9	19.0 / 31.5	125	0.00	0.00	12
*N3 - Secretaría Juez 2	1.8	19.0 / 31.4	123	0.00	0.00	12
*N3 Paso público	15.2	19.0 / 32.6	930	0.00	0.00	93

System Design Load Summary for Sistema N3

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	DESIGN COOLING			DESIGN HEATING		
	Jan 1500 OA DB / WB 37 C / 28 C			Design Heating Day OA DB / WB -0.6 C / -3.2 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	129 sqm	10077	-	129 sqm	-	-
Wall Transmission	195 sqm	4113	-	195 sqm	7411	-
Roof Transmission	302 sqm	10988	-	302 sqm	11213	-
Window Transmission	129 sqm	2441	-	129 sqm	4963	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	283 sqm	786	-	283 sqm	2407	-
Partitions/Ceilings	555 sqm	3242	-	555 sqm	11792	-
Overhead Lighting	2418 W	2418	-	0 W	0	-
Electric Equipment	6759 W	6759	-	0 W	0	-
People	48	3394	2585	0	0	0
Infiltration	-	1540	3125	-	4353	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>>Total Zone Loads	-	45756	5710	-	42139	1
Thermostat and Pulldown Adjustment	-	-707	0	-	-721	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	340 L/s	5233	10863	340 L/s	8959	0
Supply Fan Load	- L/s	0	-	- L/s	0	-
>> Total System Loads	-	50282	16573	-	50377	1
Terminal Unit Cooling	-	50282	16582	-	0	0
Terminal Unit Heating	-	0	-	-	50377	-
>> Total Coil Loads	-	50282	16582	-	50377	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for Sistema N3

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*N3 - Administrativo 1	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	7 sqm	655	-	7 sqm	-	-
Wall Transmission	14 sqm	283	-	14 sqm	529	-
Roof Transmission	28 sqm	1003	-	28 sqm	1024	-
Window Transmission	7 sqm	136	-	7 sqm	276	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	28 sqm	133	-	28 sqm	337	-
Partitions/Ceilings	43 sqm	243	-	43 sqm	940	-
Overhead Lighting	221 W	221	-	0 W	0	-
Electric Equipment	1104 W	1104	-	0 W	0	-
People	6	431	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	4209	360	-	3106	0

*N3 - Administrativo 2	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	7 sqm	917	-	7 sqm	-	-
Wall Transmission	14 sqm	283	-	14 sqm	529	-
Roof Transmission	28 sqm	1003	-	28 sqm	1024	-
Window Transmission	7 sqm	136	-	7 sqm	276	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	28 sqm	55	-	28 sqm	212	-
Partitions/Ceilings	43 sqm	243	-	43 sqm	940	-
Overhead Lighting	221 W	221	-	0 W	0	-
Electric Equipment	1104 W	1104	-	0 W	0	-
People	6	431	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	4392	360	-	2981	0

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*N3 - Juez 1	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	3 sqm	317	-	3 sqm	-	-
Wall Transmission	20 sqm	375	-	20 sqm	745	-
Roof Transmission	12 sqm	426	-	12 sqm	434	-
Window Transmission	3 sqm	66	-	3 sqm	134	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	56	-	12 sqm	143	-
Partitions/Ceilings	20 sqm	112	-	20 sqm	432	-
Overhead Lighting	94 W	93	-	0 W	0	-
Electric Equipment	400 W	400	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1988	120	-	1888	0

*N3 - Juez 2	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	5 sqm	750	-	5 sqm	-	-
Wall Transmission	18 sqm	334	-	18 sqm	668	-
Roof Transmission	12 sqm	426	-	12 sqm	434	-
Window Transmission	5 sqm	104	-	5 sqm	212	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	23	-	12 sqm	90	-
Partitions/Ceilings	20 sqm	116	-	20 sqm	368	-
Overhead Lighting	94 W	93	-	0 W	0	-
Electric Equipment	400 W	400	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2390	120	-	1772	0

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*N3 - M. Entrada Civil 1	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	0 sqm	0	-	0 sqm	-	-
Wall Transmission	0 sqm	0	-	0 sqm	0	-
Roof Transmission	13 sqm	507	-	13 sqm	494	-
Window Transmission	0 sqm	0	-	0 sqm	0	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	10 sqm	21	-	10 sqm	78	-
Partitions/Ceilings	41 sqm	241	-	41 sqm	883	-
Overhead Lighting	106 W	106	-	0 W	0	-
Electric Equipment	400 W	400	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1419	120	-	1455	0

*N3 - M. Entrada Civil 2	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	0 sqm	0	-	0 sqm	-	-
Wall Transmission	0 sqm	0	-	0 sqm	0	-
Roof Transmission	13 sqm	507	-	13 sqm	494	-
Window Transmission	0 sqm	0	-	0 sqm	0	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	10 sqm	21	-	10 sqm	78	-
Partitions/Ceilings	41 sqm	241	-	41 sqm	883	-
Overhead Lighting	106 W	106	-	0 W	0	-
Electric Equipment	400 W	400	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1419	120	-	1455	0

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*N3 - Pasillo 1	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	10 sqm	674	-	10 sqm	-	-
Wall Transmission	21 sqm	569	-	21 sqm	801	-
Roof Transmission	17 sqm	604	-	17 sqm	616	-
Window Transmission	10 sqm	181	-	10 sqm	368	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	17 sqm	80	-	17 sqm	203	-
Partitions/Ceilings	40 sqm	223	-	40 sqm	864	-
Overhead Lighting	133 W	133	-	0 W	0	-
Electric Equipment	0 W	0	-	0 W	0	-
People	3	202	106	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2666	106	-	2852	0

*N3 - Pasillo 2	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	10 sqm	674	-	10 sqm	-	-
Wall Transmission	21 sqm	569	-	21 sqm	801	-
Roof Transmission	17 sqm	604	-	17 sqm	616	-
Window Transmission	10 sqm	181	-	10 sqm	368	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	17 sqm	33	-	17 sqm	127	-
Partitions/Ceilings	40 sqm	223	-	40 sqm	864	-
Overhead Lighting	133 W	133	-	0 W	0	-
Electric Equipment	0 W	0	-	0 W	0	-
People	3	202	106	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2619	106	-	2777	0

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*N3 - Quiebras 1	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	1 sqm	49	-	1 sqm	-	-
Wall Transmission	5 sqm	129	-	5 sqm	204	-
Roof Transmission	12 sqm	457	-	12 sqm	445	-
Window Transmission	1 sqm	16	-	1 sqm	35	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	60	-	12 sqm	147	-
Partitions/Ceilings	35 sqm	261	-	35 sqm	956	-
Overhead Lighting	96 W	96	-	0 W	0	-
Electric Equipment	480 W	480	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1692	120	-	1786	0

*N3 - Quiebras 2	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	1 sqm	72	-	1 sqm	-	-
Wall Transmission	5 sqm	129	-	5 sqm	204	-
Roof Transmission	12 sqm	457	-	12 sqm	445	-
Window Transmission	1 sqm	16	-	1 sqm	35	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	25	-	12 sqm	92	-
Partitions/Ceilings	35 sqm	261	-	35 sqm	956	-
Overhead Lighting	96 W	96	-	0 W	0	-
Electric Equipment	480 W	480	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1679	120	-	1732	0

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*N3 - Sala Audiencias	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	12 sqm	1617	-	12 sqm	-	-
Wall Transmission	19 sqm	308	-	19 sqm	738	-
Roof Transmission	22 sqm	800	-	22 sqm	816	-
Window Transmission	12 sqm	219	-	12 sqm	445	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	22 sqm	46	-	22 sqm	145	-
Partitions/Ceilings	29 sqm	166	-	29 sqm	524	-
Overhead Lighting	176 W	176	-	0 W	0	-
Electric Equipment	400 W	400	-	0 W	0	-
People	6	431	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	4162	360	-	2669	0

*N3 - Santa Fe Serv.	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	0 sqm	0	-	0 sqm	-	-
Wall Transmission	9 sqm	147	-	9 sqm	338	-
Roof Transmission	12 sqm	442	-	12 sqm	431	-
Window Transmission	0 sqm	0	-	0 sqm	0	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	25	-	12 sqm	76	-
Partitions/Ceilings	33 sqm	201	-	33 sqm	607	-
Overhead Lighting	93 W	93	-	0 W	0	-
Electric Equipment	348 W	348	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1400	120	-	1452	0

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*N3 - Secretaría Juez 1	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	2 sqm	140	-	2 sqm	-	-
Wall Transmission	18 sqm	411	-	18 sqm	673	-
Roof Transmission	9 sqm	335	-	9 sqm	326	-
Window Transmission	2 sqm	43	-	2 sqm	92	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	9 sqm	44	-	9 sqm	108	-
Partitions/Ceilings	17 sqm	100	-	17 sqm	367	-
Overhead Lighting	70 W	70	-	0 W	0	-
Electric Equipment	400 W	400	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1688	120	-	1567	0

*N3 - Secretaría Juez 2	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	2 sqm	140	-	2 sqm	-	-
Wall Transmission	18 sqm	411	-	18 sqm	673	-
Roof Transmission	9 sqm	335	-	9 sqm	326	-
Window Transmission	2 sqm	43	-	2 sqm	92	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	9 sqm	18	-	9 sqm	82	-
Partitions/Ceilings	17 sqm	100	-	17 sqm	367	-
Overhead Lighting	70 W	70	-	0 W	0	-
Electric Equipment	400 W	400	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1661	120	-	1542	0

Zone Design Load Summary for Sistema N3

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/23/2022
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*N3 Paso público	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.5 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	69 sqm	3949	-	69 sqm	-	-
Wall Transmission	13 sqm	261	-	13 sqm	506	-
Roof Transmission	89 sqm	3222	-	89 sqm	3288	-
Window Transmission	69 sqm	1294	-	69 sqm	2629	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	75 sqm	155	-	75 sqm	490	-
Partitions/Ceilings	100 sqm	582	-	100 sqm	1840	-
Overhead Lighting	709 W	709	-	0 W	0	-
Electric Equipment	443 W	443	-	0 W	0	-
People	6	404	211	0	0	0
Infiltration	-	1540	3125	-	4353	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	12557	3336	-	13106	1