

Air System Sizing Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
Prepared by: morocco

10/17/2025
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Air System Information

Air System Name **SYSTEME DRV**
Equipment Class **UNDEF**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **714,0** m²
Location **Casablanca, Morocco**

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**

Central Cooling Coil Sizing Data

Total coil load **105,1** kW
Sensible coil load **80,5** kW
Coil L/s at Jul 1400 **5760** L/s
Max block L/s **5760** L/s
Sum of peak zone L/s **5760** L/s
Sensible heat ratio **0,766**
m²/kW **6,8**
W/m² **147,2**
Water flow @ 5,6 °K rise **4,53** L/s

Load occurs at **Jul 1400**
OA DB / WB **29,6 / 21,5** °C
Entering DB / WB **26,1 / 19,1** °C
Leaving DB / WB **14,4 / 13,8** °C
Coil ADP **13,1** °C
Bypass Factor **0,100**
Resulting RH **53** %
Design supply temp. **14,4** °C
Zone T-stat Check **0 of 1** OK
Max zone temperature deviation **0,6** °K

Central Heating Coil Sizing Data

Max coil load **41,7** kW
Coil L/s at Des Htg **5760** L/s
Max coil L/s **5760** L/s
Water flow @ 11,1 °K drop **0,90** L/s

Load occurs at **Des Htg**
W/m² **58,5**
Ent. DB / Lvg DB **19,2 / 25,3** °C

Supply Fan Sizing Data

Actual max L/s **5760** L/s
Standard L/s **5717** L/s
Actual max L/(s-m²) **8,07** L/(s-m²)

Fan motor BHP **0,00** BHP
Fan motor kW **0,00** kW
Fan static **0** Pa

Outdoor Ventilation Air Data

Design airflow L/s **972** L/s
L/(s-m²) **1,36** L/(s-m²)

L/s/person **3,91** L/s/person

Zone Sizing Summary for SYSTÈME DRV

Project Name: ISMEER MOHAMMEDIA
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Air System Information

Air System Name SYSTÈME DRV
Equipment Class UNDEF
Air System Type SZCAV

Number of zones 1
Floor Area 714,0 m²
Location Casablanca, Morocco

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

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Airflow (L/s)	Minimum Airflow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	64,7	5760	5760	Jul 1400	24,4	714,0	8,07

Zone Terminal Sizing Data

No Zone Terminal Sizing Data required for this system.

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (kW)	Time of Load	Air Flow (L/s)	Heating Load (kW)	Floor Area (m²)	Space L/(s-m²)
Zone 1							
B.Assistante directeur G	1	1,4	Jun 1300	123	0,9	12,0	10,24
B.surveillant general	1	2,4	Jun 1500	212	1,5	20,0	10,62
BUREAU DIRECTEUR	1	2,8	Jul 1300	246	1,7	30,0	8,20
CENTRE D'ORIENTATION PRO	1	6,3	Jul 1300	549	1,9	80,0	6,86
data Center	1	2,2	Sep 1100	191	1,2	16,0	11,91
Espace bureau 3 Personne	1	2,5	Aug 1500	222	1,7	30,0	7,39
L.T reseaux telephonique	1	1,8	Aug 1100	160	1,4	16,0	9,98
MEDIATQUE	1	6,3	Jul 1300	549	1,9	80,0	6,86
SALLE DE LANGUE	1	3,9	Jul 1300	343	1,1	60,0	5,72
salle de reunion	1	3,5	Jun 1600	308	1,8	40,0	7,70
SALLE DES COMPETANCE COM	1	4,3	Jul 1300	375	1,1	60,0	6,25
Salle formateur	1	2,4	Jun 1600	208	2,5	30,0	6,94
SALLE LOGICIELS 1	1	8,4	Jul 1300	729	1,5	80,0	9,12
SALLE LOGICIELS 2	1	8,2	Jul 1300	719	1,5	80,0	8,98
SALLE MULTIMEDIA ETAGE	1	9,5	Jul 1500	826	2,8	80,0	10,32

Ventilation Sizing Summary for SYSTEME DRV

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1. Summary

Ventilation Sizing Method Sum of Space OA Airflows
Design Ventilation Airflow Rate 972 L/s

2. Space Ventilation Analysis Table

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									
B.Assistante directeur G	1	12,0	2,0	122,9	2,50	0,30	0,0	0,0	8,6
B.surveillant general	1	20,0	3,0	212,4	2,50	0,60	0,0	0,0	19,5
BUREAU DIRECTEUR	1	30,0	3,0	246,0	2,50	0,30	0,0	0,0	16,5
CENTRE D'ORIENTATION PRO	1	80,0	25,0	549,1	2,50	0,30	0,0	0,0	86,5
data Center	1	16,0	3,0	190,6	5,00	0,60	0,0	0,0	24,6
Espace bureau 3 Personne	1	30,0	3,0	221,6	2,50	0,30	0,0	0,0	16,5
L.T reseaux telefonique	1	16,0	3,0	159,6	5,00	0,60	0,0	0,0	24,6
MEDIATQUE	1	80,0	25,0	549,1	2,50	0,30	0,0	0,0	86,5
SALLE DE LANGUE	1	60,0	20,0	343,2	5,00	0,90	0,0	0,0	154,0
salle de reunion	1	40,0	12,0	308,1	2,50	0,30	0,0	0,0	42,0
SALLE DES COMPETANCE COM	1	60,0	22,0	375,2	2,50	0,30	0,0	0,0	73,0
Salle formateur	1	30,0	13,0	208,2	2,50	0,60	0,0	0,0	50,5
SALLE LOGICIELS 1	1	80,0	41,0	729,4	2,50	0,30	0,0	0,0	126,5
SALLE LOGICIELS 2	1	80,0	39,0	718,5	2,50	0,30	0,0	0,0	121,5
SALLE MULTIMEDIA ETAGE	1	80,0	39,0	825,8	2,50	0,30	0,0	0,0	121,5
Totals (incl. Space Multipliers)				5759,6					972,3

Air System Design Load Summary for SYSTEME DRV

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	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1400 COOLING OA DB / WB 29,6 °C / 21,5 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	85 m²	11667	-	85 m²	-	-
Wall Transmission	462 m²	2409	-	462 m²	3288	-
Roof Transmission	640 m²	16599	-	640 m²	6835	-
Window Transmission	85 m²	2270	-	85 m²	7601	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	1 m²	5	-	1 m²	16	-
Floor Transmission	357 m²	-54	-	357 m²	180	-
Partitions	467 m²	-805	-	467 m²	4249	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	8726 W	6669	-	0	0	-
Task Lighting	288 W	248	-	0	0	-
Electric Equipment	7107 W	6460	-	0	0	-
People	249	13380	17042	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	5885	1704	10%	2217	0
>> Total Zone Loads	-	64733	18746	-	24387	0
Zone Conditioning	-	75651	18746	-	23789	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Return Fan Load	5760 L/s	0	-	5760 L/s	0	-
Ventilation Load	972 L/s	4830	5873	972 L/s	17949	0
Supply Fan Load	5760 L/s	0	-	5760 L/s	0	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	0%	0	-	0%	0	-
>> Total System Loads	-	80481	24619	-	41738	0
Central Cooling Coil	-	80481	24624	-	0	0
Central Heating Coil	-	0	-	-	41738	-
>> Total Conditioning	-	80481	24624	-	41738	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 SYSTEME DRV

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Zone 1	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1400			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 29,6 °C / 21,5 °C			HEATING OA DB / WB 6,4 °C / 2,6 °C		
	OCCUPIED T-STAT 24,0 °C			OCCUPIED T-STAT 22,0 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	85 m²	11667	-	85 m²	-	-
Wall Transmission	462 m²	2409	-	462 m²	3288	-
Roof Transmission	640 m²	16599	-	640 m²	6835	-
Window Transmission	85 m²	2270	-	85 m²	7601	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	1 m²	5	-	1 m²	16	-
Floor Transmission	357 m²	-54	-	357 m²	180	-
Partitions	467 m²	-805	-	467 m²	4249	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	8726 W	6669	-	0	0	-
Task Lighting	288 W	248	-	0	0	-
Electric Equipment	7107 W	6460	-	0	0	-
People	249	13380	17042	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	5885	1704	10%	2217	0
>> Total Zone Loads	-	64733	18746	-	24387	0

Space Design Load Summary for SYSTEME DRV

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TABLE 1.1.A. COMPONENT LOADS FOR SPACE " B.Assistente directeur G " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1300 COOLING OA DB / WB 28,6 °C / 21,3 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	4 m²	522	-	4 m²	-	-
Wall Transmission	9 m²	44	-	9 m²	64	-
Roof Transmission	12 m²	326	-	12 m²	128	-
Window Transmission	4 m²	95	-	4 m²	394	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	5 m²	0	-	5 m²	0	-
Partitions	13 m²	-63	-	13 m²	275	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	108 W	79	-	0	0	-
Task Lighting	54 W	46	-	0	0	-
Electric Equipment	162 W	143	-	0	0	-
People	2	86	108	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	128	11	10%	86	0
>> Total Zone Loads	-	1407	119	-	947	0

TABLE 1.1.B. ENVELOPE LOADS FOR SPACE " B.Assistente directeur G " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
NE EXPOSURE						
WALL	9	0,456	-	44	-	64
WINDOW 1	4	5,800	0,811	95	522	394
H EXPOSURE						
ROOF	12	0,685	-	326	-	128

Space Design Load Summary for SYSTEME DRV

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TABLE 1.2.A. COMPONENT LOADS FOR SPACE " B.surveillant general " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1500 COOLING OA DB / WB 29,1 °C / 21,5 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	7 m²	986	-	7 m²	-	-
Wall Transmission	25 m²	111	-	25 m²	178	-
Roof Transmission	20 m²	443	-	20 m²	214	-
Window Transmission	7 m²	155	-	7 m²	568	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	0 m²	0	-	0 m²	0	-
Partitions	14 m²	-82	-	14 m²	397	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	180 W	139	-	0	0	-
Task Lighting	90 W	79	-	0	0	-
Electric Equipment	270 W	242	-	0	0	-
People	3	139	162	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	221	16	10%	136	0
>> Total Zone Loads	-	2433	178	-	1491	0

TABLE 1.2.B. ENVELOPE LOADS FOR SPACE " B.surveillant general " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
NE EXPOSURE						
WALL	11	0,456	-	56	-	77
WINDOW 1	2	5,800	0,811	45	209	165
WINDOW 2	1	3,339	0,811	19	157	71
NW EXPOSURE						
WALL	14	0,456	-	55	-	101
WINDOW 1	4	5,800	0,811	90	620	331
H EXPOSURE						
ROOF	20	0,685	-	443	-	214

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.3.A. COMPONENT LOADS FOR SPACE " BUREAU DIRECTEUR " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1300 COOLING OA DB / WB 29,2 °C / 21,3 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	7 m²	723	-	7 m²	-	-
Wall Transmission	29 m²	140	-	29 m²	208	-
Roof Transmission	30 m²	820	-	30 m²	320	-
Window Transmission	7 m²	181	-	7 m²	656	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	0 m²	0	-	0 m²	0	-
Partitions	23 m²	-22	-	23 m²	365	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	270 W	231	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	405 W	358	-	0	0	-
People	3	130	162	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	256	16	10%	155	0
>> Total Zone Loads	-	2817	178	-	1704	0

TABLE 1.3.B. ENVELOPE LOADS FOR SPACE " BUREAU DIRECTEUR " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE						
WALL	17	0,456	-	103	-	122
WINDOW 1	3	5,800	0,811	73	443	262
N EXPOSURE						
WALL	12	0,456	-	36	-	86
WINDOW 1	4	5,800	0,811	109	279	394
H EXPOSURE						
ROOF	30	0,685	-	820	-	320

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.4.A. COMPONENT LOADS FOR SPACE " CENTRE D'ORIENTATION PRO " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1300 COOLING OA DB / WB 29,2 °C / 21,3 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	5 m²	785	-	5 m²	-	-
Wall Transmission	55 m²	294	-	55 m²	394	-
Roof Transmission	80 m²	2188	-	80 m²	854	-
Window Transmission	5 m²	130	-	5 m²	469	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	1	-	0 m²	5	-
Floor Transmission	80 m²	-9	-	80 m²	0	-
Partitions	38 m²	-10	-	38 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	1200 W	873	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	320 W	281	-	0	0	-
People	25	1184	1503	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	572	150	10%	172	0
>> Total Zone Loads	-	6288	1653	-	1895	0

TABLE 1.4.B. ENVELOPE LOADS FOR SPACE " CENTRE D'ORIENTATION PRO " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE						
WALL	27	0,456	-	165	-	194
WINDOW 1	3	5,800	0,811	77	473	279
W EXPOSURE						
WALL	28	0,456	-	129	-	200
WINDOW 1	2	5,800	0,811	53	312	190
DOOR	0	1,703	-	1	-	5
H EXPOSURE						
ROOF	80	0,685	-	2188	-	854

Space Design Load Summary for SYSTEME DRV

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TABLE 1.5.A. COMPONENT LOADS FOR SPACE " data Center " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Sep 1100 COOLING OA DB / WB 26,6 °C / 20,4 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	4 m²	882	-	4 m²	-	-
Wall Transmission	10 m²	45	-	10 m²	69	-
Roof Transmission	16 m²	359	-	16 m²	171	-
Window Transmission	4 m²	55	-	4 m²	394	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	16 m²	-26	-	16 m²	86	-
Partitions	14 m²	-113	-	14 m²	378	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	144 W	120	-	0	0	-
Task Lighting	72 W	60	-	0	0	-
Electric Equipment	480 W	480	-	0	0	-
People	3	122	162	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	198	16	10%	110	0
>> Total Zone Loads	-	2183	178	-	1207	0

TABLE 1.5.B. ENVELOPE LOADS FOR SPACE " data Center " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
SE EXPOSURE						
WALL	10	0,456	-	45	-	69
WINDOW 1	4	5,800	0,811	55	882	394
H EXPOSURE						
ROOF	16	0,685	-	359	-	171

Space Design Load Summary for SYSTEME DRV

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TABLE 1.6.A. COMPONENT LOADS FOR SPACE " Espace bureau 3 Personne " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1500 COOLING OA DB / WB 29,7 °C / 21,5 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	5 m²	941	-	5 m²	-	-
Wall Transmission	41 m²	199	-	41 m²	290	-
Roof Transmission	12 m²	235	-	12 m²	128	-
Window Transmission	5 m²	152	-	5 m²	496	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	30 m²	0	-	30 m²	0	-
Partitions	25 m²	-36	-	25 m²	596	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	270 W	203	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	540 W	480	-	0	0	-
People	3	133	162	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	231	16	10%	151	0
>> Total Zone Loads	-	2538	178	-	1661	0

TABLE 1.6.B. ENVELOPE LOADS FOR SPACE " Espace bureau 3 Personne " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
W EXPOSURE						
WALL	14	0,456	-	64	-	101
WINDOW 1	4	5,800	0,811	101	760	331
S EXPOSURE						
WALL	19	0,456	-	91	-	139
WINDOW 1	2	5,800	0,811	51	181	165
SE EXPOSURE						
WALL	7	0,456	-	43	-	51
H EXPOSURE						
ROOF	12	0,685	-	235	-	128

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.7.A. COMPONENT LOADS FOR SPACE " L.T reseaux telefonique " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1100 COOLING OA DB / WB 27,8 °C / 20,9 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	3 m²	456	-	3 m²	-	-
Wall Transmission	11 m²	55	-	11 m²	79	-
Roof Transmission	16 m²	407	-	16 m²	171	-
Window Transmission	3 m²	56	-	3 m²	262	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	16 m²	-23	-	16 m²	94	-
Partitions	28 m²	-196	-	28 m²	673	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	144 W	102	-	0	0	-
Task Lighting	72 W	60	-	0	0	-
Electric Equipment	480 W	480	-	0	0	-
People	3	264	732	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	166	73	10%	128	0
>> Total Zone Loads	-	1828	805	-	1407	0

TABLE 1.7.B. ENVELOPE LOADS FOR SPACE " L.T reseaux telefonique " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
SE EXPOSURE						
WALL	11	0,456	-	55	-	79
WINDOW 1	3	5,800	0,811	56	456	262
H EXPOSURE						
ROOF	16	0,685	-	407	-	171

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.8.A. COMPONENT LOADS FOR SPACE " MEDIATQUE " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1300 COOLING OA DB / WB 29,2 °C / 21,3 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	5 m²	785	-	5 m²	-	-
Wall Transmission	55 m²	294	-	55 m²	394	-
Roof Transmission	80 m²	2188	-	80 m²	854	-
Window Transmission	5 m²	130	-	5 m²	469	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	1	-	0 m²	5	-
Floor Transmission	80 m²	-9	-	80 m²	0	-
Partitions	38 m²	-10	-	38 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	1200 W	873	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	320 W	281	-	0	0	-
People	25	1184	1503	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	572	150	10%	172	0
>> Total Zone Loads	-	6288	1653	-	1895	0

TABLE 1.8.B. ENVELOPE LOADS FOR SPACE " MEDIATQUE " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE						
WALL	27	0,456	-	165	-	194
WINDOW 1	3	5,800	0,811	77	473	279
W EXPOSURE						
WALL	28	0,456	-	129	-	200
WINDOW 1	2	5,800	0,811	53	312	190
DOOR	0	1,703	-	1	-	5
H EXPOSURE						
ROOF	80	0,685	-	2188	-	854

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.9.A. COMPONENT LOADS FOR SPACE "SALLE DE LANGUE" IN ZONE "Zone 1"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1300 COOLING OA DB / WB 29,2 °C / 21,3 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	2 m²	355	-	2 m²	-	-
Wall Transmission	20 m²	124	-	20 m²	146	-
Roof Transmission	60 m²	1641	-	60 m²	641	-
Window Transmission	2 m²	58	-	2 m²	209	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	60 m²	-7	-	60 m²	0	-
Partitions	64 m²	-34	-	64 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	600 W	436	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	60 W	53	-	0	0	-
People	20	947	1202	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	357	120	10%	100	0
>> Total Zone Loads	-	3929	1322	-	1095	0

TABLE 1.9.B. ENVELOPE LOADS FOR SPACE "SALLE DE LANGUE" IN ZONE "Zone 1"						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE						
WALL	20	0,456	-	124	-	146
WINDOW 1	2	5,800	0,811	58	355	209
H EXPOSURE						
ROOF	60	0,685	-	1641	-	641

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.10.A. COMPONENT LOADS FOR SPACE " salle de reunion " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1600 COOLING OA DB / WB 29,0 °C / 21,5 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	8 m²	1167	-	8 m²	-	-
Wall Transmission	44 m²	201	-	44 m²	313	-
Roof Transmission	14 m²	249	-	14 m²	150	-
Window Transmission	8 m²	195	-	8 m²	725	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	40 m²	0	-	40 m²	0	-
Partitions	14 m²	-88	-	14 m²	417	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	540 W	425	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	540 W	489	-	0	0	-
People	11	569	649	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	321	65	10%	160	0
>> Total Zone Loads	-	3528	714	-	1765	0

TABLE 1.10.B. ENVELOPE LOADS FOR SPACE " salle de reunion " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
NE EXPOSURE						
WALL	17	0,456	-	90	-	121
WINDOW 1	4	5,800	0,811	106	468	394
NW EXPOSURE						
WALL	20	0,456	-	81	-	142
WINDOW 1	4	5,800	0,811	89	699	331
SW EXPOSURE						
WALL	7	0,456	-	30	-	51
H EXPOSURE						
ROOF	14	0,685	-	249	-	150

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.11.A. COMPONENT LOADS FOR SPACE " SALLE DES COMPETANCE COM " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1300 COOLING OA DB / WB 29,2 °C / 21,3 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	2 m²	406	-	2 m²	-	-
Wall Transmission	20 m²	123	-	20 m²	146	-
Roof Transmission	60 m²	1724	-	60 m²	641	-
Window Transmission	2 m²	58	-	2 m²	209	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	0 m²	0	-	0 m²	0	-
Partitions	64 m²	-34	-	64 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	600 W	455	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	60 W	54	-	0	0	-
People	22	1119	1322	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	391	132	10%	100	0
>> Total Zone Loads	-	4296	1454	-	1095	0

TABLE 1.11.B. ENVELOPE LOADS FOR SPACE " SALLE DES COMPETANCE COM " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE						
WALL	20	0,456	-	123	-	146
WINDOW 1	2	5,800	0,811	58	406	209
H EXPOSURE						
ROOF	60	0,685	-	1724	-	641

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.12.A. COMPONENT LOADS FOR SPACE " Salle formateur " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1600 COOLING OA DB / WB 29,0 °C / 21,5 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	10 m²	948	-	10 m²	-	-
Wall Transmission	29 m²	140	-	29 m²	206	-
Roof Transmission	0 m²	0	-	0 m²	0	-
Window Transmission	10 m²	248	-	10 m²	918	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	30 m²	0	-	30 m²	0	-
Partitions	39 m²	-241	-	39 m²	1149	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	270 W	212	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	270 W	244	-	0	0	-
People	12	616	703	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	217	70	10%	227	0
>> Total Zone Loads	-	2385	773	-	2500	0

TABLE 1.12.B. ENVELOPE LOADS FOR SPACE " Salle formateur " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE						
WALL	14	0,456	-	46	-	100
WINDOW 1	3	5,800	0,811	71	225	262
WINDOW 2	4	5,800	0,811	106	338	394
E EXPOSURE						
WALL	15	0,456	-	94	-	106
WINDOW 1	3	5,800	0,811	71	386	262

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.13.A. COMPONENT LOADS FOR SPACE " SALLE LOGICIELS 1 " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1300 COOLING OA DB / WB 29,2 °C / 21,3 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	3 m²	436	-	3 m²	-	-
Wall Transmission	36 m²	200	-	36 m²	256	-
Roof Transmission	80 m²	2261	-	80 m²	854	-
Window Transmission	3 m²	65	-	3 m²	234	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	0 m²	0	-	0 m²	0	-
Partitions	28 m²	-8	-	28 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	1200 W	894	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	1600 W	1423	-	0	0	-
People	41	2322	3243	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	759	324	10%	134	0
>> Total Zone Loads	-	8353	3567	-	1479	0

TABLE 1.13.B. ENVELOPE LOADS FOR SPACE " SALLE LOGICIELS 1 " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE						
WALL	25	0,456	-	153	-	181
WINDOW 1	1	5,800	0,811	26	177	95
WINDOW 2	2	5,800	0,811	39	259	139
W EXPOSURE						
WALL	11	0,456	-	47	-	75
H EXPOSURE						
ROOF	80	0,685	-	2261	-	854

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
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TABLE 1.14.A. COMPONENT LOADS FOR SPACE " SALLE LOGICIELS 2 " IN ZONE " Zone 1 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1300 COOLING OA DB / WB 29,2 °C / 21,3 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	3 m²	436	-	3 m²	-	-
Wall Transmission	36 m²	200	-	36 m²	256	-
Roof Transmission	80 m²	2261	-	80 m²	854	-
Window Transmission	3 m²	65	-	3 m²	234	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	0	-	0 m²	0	-
Floor Transmission	0 m²	0	-	0 m²	0	-
Partitions	28 m²	-8	-	28 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	1200 W	894	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	1600 W	1423	-	0	0	-
People	39	2209	3085	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	748	308	10%	134	0
>> Total Zone Loads	-	8228	3393	-	1479	0

TABLE 1.14.B. ENVELOPE LOADS FOR SPACE " SALLE LOGICIELS 2 " IN ZONE " Zone 1 "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE						
WALL	25	0,456	-	153	-	181
WINDOW 1	1	5,800	0,811	26	177	95
WINDOW 2	2	5,800	0,811	39	259	139
W EXPOSURE						
WALL	11	0,456	-	47	-	75
H EXPOSURE						
ROOF	80	0,685	-	2261	-	854

Space Design Load Summary for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
Prepared by: morocco

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TABLE 1.15.A. COMPONENT LOADS FOR SPACE " SALLE MULTIMEDIA ETAGE " IN ZONE " Zone 1 "

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1500 COOLING OA DB / WB 29,7 °C / 21,5 °C OCCUPIED T-STAT 24,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 6,4 °C / 2,6 °C OCCUPIED T-STAT 22,0 °C		
		Sensible	Latent		Sensible	Latent
SPACE LOADS	Details	(W)	(W)	Details	(W)	(W)
Window & Skylight Solar Loads	15 m²	3354	-	15 m²	-	-
Wall Transmission	41 m²	233	-	41 m²	290	-
Roof Transmission	80 m²	1855	-	80 m²	854	-
Window Transmission	15 m²	428	-	15 m²	1364	-
Skylight Transmission	0 m²	0	-	0 m²	0	-
Door Loads	0 m²	2	-	0 m²	5	-
Floor Transmission	0 m²	0	-	0 m²	0	-
Partitions	38 m²	-7	-	38 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	800 W	635	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	39	2097	2344	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	860	234	10%	251	0
>> Total Zone Loads	-	9456	2578	-	2765	0

TABLE 1.15.B. ENVELOPE LOADS FOR SPACE " SALLE MULTIMEDIA ETAGE " IN ZONE " Zone 1 "

	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m²)	(W/(m²·°K))	Coeff.	TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE						
WALL	25	0,456	-	160	-	177
WINDOW 1	3	5,800	0,811	87	455	279
W EXPOSURE						
WALL	16	0,456	-	73	-	112
WINDOW 1	12	5,800	0,811	340	2898	1086
DOOR	0	1,703	-	2	-	5
H EXPOSURE						
ROOF	80	0,685	-	1855	-	854

System Psychrometrics for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
Prepared by: morocco

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July DESIGN COOLING DAY, 1400

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (°C)	Specific Humidity (kg/kg)	Airflow (L/s)	CO2 Level (ppm)	Sensible Heat (W)	Latent Heat (W)
Ventilation Air	Inlet	29,6	0,01283	972	400	4830	5873
Vent - Return Mixing	Outlet	26,1	0,01111	5760	1672	-	-
Central Cooling Coil	Outlet	14,4	0,00965	5760	1672	80481	24624
Central Heating Coil	Outlet	14,4	0,00965	5760	1672	0	-
Supply Fan	Outlet	14,4	0,00965	5760	1672	0	-
Cold Supply Duct	Outlet	14,4	0,00965	5760	1672	-	-
Zone Air	-	25,4	0,01076	5760	1930	75651	18746
Return Plenum	Outlet	25,4	0,01076	5760	1930	0	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1,207; At site altitude = 1,198 W/(L/s-K)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 2947,6; At site altitude = 2926,0 W/(L/s)

Site Altitude = 61,9 m

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (W)	T-stat Mode	Zone Cond (W)	Zone Temp (°C)	Zone Airflow (L/s)	CO2 Level (ppm)	Terminal Heating Coil (W)	Zone Heating Unit (W)
Zone 1	64733	Cooling	75651	25,4	5760	1930	0	0

System Psychrometrics for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
Prepared by: morocco

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WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (°C)	Specific Humidity (kg/kg)	Airflow (L/s)	CO2 Level (ppm)	Sensible Heat (W)	Latent Heat (W)
Ventilation Air	Inlet	6,4	0,00305	972	400	-17949	0
Vent - Return Mixing	Outlet	19,2	0,00305	5760	443	-	-
Central Cooling Coil	Outlet	19,2	0,00305	5760	443	0	0
Central Heating Coil	Outlet	25,3	0,00305	5760	443	41738	-
Supply Fan	Outlet	25,3	0,00305	5760	443	0	-
Cold Supply Duct	Outlet	25,3	0,00305	5760	443	-	-
Zone Air	-	21,8	0,00305	5760	452	-23789	0
Return Plenum	Outlet	21,8	0,00305	5760	452	0	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1,207; At site altitude = 1,198 W/(L/s-K)

Air Density x Heat of Vaporization x Conversion Factor: At sea level = 2947,6; At site altitude = 2926,0 W/(L/s)

Site Altitude = 61,9 m

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (W)	T-stat Mode	Zone Cond (W)	Zone Temp (°C)	Zone Airflow (L/s)	CO2 Level (ppm)	Terminal Heating Coil (W)	Zone Heating Unit (W)
Zone 1	-24387	Heating	-23789	21,8	5760	452	0	0

Psychrometric Analysis for SYSTEME DRV

Project Name: ISMEER MOHAMMEDIA
Prepared by: morocco

10/17/2025
06:03

Location: Casablanca, Morocco

Altitude: 61,9 m

Data for: July DESIGN COOLING DAY, 1400

