



**CONSÓRCIO
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MEMÓRIA DE CÁLCULO SISTEMA DE HVAC CAPS III

FEVEREIRO / 2026

VERSÃO R02

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1. APRESENTAÇÃO

Esta memória de cálculo visa apresentar os cálculos de renovação de ar, exaustão e de carga térmica para a implantação dos CAPS III – Centro de Atenção Psicossocial III – Infante Juvenil, de forma que os sistemas de climatização dos ambientes atendam o estabelecido na norma NBR-16401:2024.

2. NORMAS DE REFERÊNCIA

Considera-se como referências técnicas para a elaboração desta memória de cálculo as seguintes normas:

- RESOLUÇÃO ANVISA - RDC Nº 50, DE 21 DE FEVEREIRO DE 2002 - Regulamento Técnico para planejamento, programação, elaboração e avaliação de projetos físicos de estabelecimentos assistenciais de saúde;
- ABNT NBR 16401:2024 – Instalações Centrais de Ar Condicionado – Sistemas Centrais e Unitários – Parte 1 – Projetos de Instalações;
- ABNT NBR 16401:2024 – Instalações Centrais de Ar Condicionado – Sistemas Centrais e Unitários – Parte 2 – Parâmetros de Conforto Térmico Conforto;
- ABNT NBR 16401:2008 – Instalações Centrais de Ar Condicionado – Sistemas Centrais e Unitários – Parte 3 – Qualidade do Ar Interior;
- PORTARIA Nº 3.523, DE 28 DE AGOSTO DE 1998, do Ministério da Saúde;
- LEI Nº 13.589, DE 4 DE JANEIRO DE 2018.

3. DOCUMENTOS ESPECÍFICOS DE REFERÊNCIA

Considera-se como referências específicas para a elaboração desta memória de cálculo os seguintes documentos:

- 0012-PP-CAPS3-ARQ-PB-001-02-PLN – CAPS III – Infante Juvenil – Arquitetura – Planta Baixa;
- 0012-PP-CAPS3-ARQ-PB-002-02-LAY – CAPS III – Infante Juvenil – Arquitetura – Planta Lay Out;

- 0012-PP-CAPS3-ARQ-PB-003-02-COB – CAPS III – Infante Juvenil – Arquitetura – Cobertura;
- 0012-PP-CAPS3-ARQ-PB-004-02-COR – CAPS III – Infante Juvenil – Arquitetura – Cortes;
- 0012-PP-CAPS3-ARQ-PB-005-02-ELE – CAPS III – Infante Juvenil – Arquitetura – Elevações;
- IFC – Modelagem BIM CAPS 3

4. PREMISSAS PARA CÁLCULO DE CARGA TÉRMICA

Para o cálculo da carga térmica foi empregando o "software" HAP 40, versão 4.70, da Carrier. O sistema HAP emprega o método de cálculo "Transfer Function" da ASHRAE e permite além do cálculo de carga térmica, a simulação hora a hora das 8.760 horas/ano.

4.1 Condições Externas de Ambiente

Consideramos a implantação da unidade em clima tropical, Salvador / Bahia, com frequência anual 0,4%, adotando-se para o ar exterior os parâmetros indicados pela NBR-16.401, parte 1, Anexo A, Tabela A-4, a saber:

- | | |
|----------------------------------|-----------------|
| - Temperatura bulbo seco (TBS): | 32,6 °C (verão) |
| - Temperatura bulbo úmido (TBU): | 26,6 °C (verão) |

4.2 Taxas para Cálculo da Carga Térmica

- Para os itens: ocupação, equipamentos, iluminação e calor dissipado pelas pessoas foram consideradas as recomendações da ABNT NBR-16.401, parte 1, Anexo C.

4.3 Vazão de ar exterior para renovação e exaustão

- Atendendo a ABNT NBR 16401-3:2008 – Instalações Centrais de Ar Condicionado – Sistemas Centrais e Unitários – Parte 3 – Qualidade do Ar Interior.

4.4 Condições Internas para ambientes climatizados

AMBIENTE	ÁREA (m ²)	OCUPAÇÃO (nº pessoas)	EQUIPAMENTOS (W)	ILUMINAÇÃO (W/m ²)
Sala de Espera de Acolhimento	55,77	10	190	9,6
Recepção	7,35	2	190	9,6
Sala de TI / Servidor	3,64	1	1.000	10,5
Farmácia	13,69	1	405	12,3
Sala de Acolhimento	9,01	3	95	17,9
Sala de Atendimento Individual 01	9,01	3	95	17,9
Sala de Atendimento Individual 02	9,01	3	95	17,9
Sala de Atendimento Individual 03	9,01	3	95	17,9
Sala de Atendimento Individual/Coletivo	18,84	9	95	17,9
Sala de Reunião	31,21	20	95	10,5
Sala de Apoio Administrativo	18,08	4	425	10,5
Sala Administrativa	10,75	3	235	10,5
Sala de Atendimento Coletivo 02	25,16	15	160	17,9
Sala de Atendimento Coletivo 01	25,26	17	160	17,9
Refeitório para Pacientes	54,32	36	200	14,1
Cozinha	27,91	10	840	10,7
Sala de Aplicação de Medicamentos	10,89	3	310	17,9
Posto de Enfermagem	7,80	2	190	10,5
Sala de Convivência	87,50	16	0	10,5
Estar	21,39	5	95	10,5
Quarto de Acolhimento 01	14,02	2	0	9,6
Quarto de Acolhimento 02	14,02	2	0	9,6
Quarto de Acolhimento 03	14,02	2	0	9,6

Quarto de Acolhimento 04	15,43	2	0	9,6
Quarto de Descanso Equipe Feminina	10,41	2	0	9,6
Quarto de Descanso Equipe Masculina	10,36	2	0	9,6

Obs.: Conforme formalizado pela SESAB em 26/01/2026, ficou definido que os pontos de ar-condicionado existentes na área de convivência, sala de estar, corredor e refeitório deverão ser substituídos por ventiladores. O sistema de renovação de ar foi mantido, para manutenção da qualidade do ar interior.

5. CÁLCULO DA VAZÃO DE RENOVAÇÃO - INSUFLAMENTO

RESUMO RENOVAÇÃO DE AR CAPS 3							
Ambiente	N. pessoas	Area	Fa	Fp	Vazão eficaz (l/s)	Vazão eficaz (m3/h)	Vazão Adotada (m3/h)
INSUFLAMENTO							
Sala de Espera de Acolhimento	10,00	55,77	0,50	3,80	65,89	237,19	250,00
Recepção	2,00	7,35	0,50	3,80	11,28	40,59	50,00
Sala de TI / Servidor	1,00	3,64	0,50	3,80	5,62	20,23	50,00
Farmácia	1,00	13,69	0,50	3,80	10,65	38,32	100,00
Sala de Acolhimento	3,00	9,01	0,50	3,80	15,91	57,26	75,00
Sala de Atendimento Individual 01	3,00	9,01	0,50	3,80	15,91	57,26	75,00
Sala de Atendimento Individual 02	3,00	9,01	0,50	3,80	15,91	57,26	75,00
Sala de Atendimento Individual 03	3,00	9,01	0,50	3,80	15,91	57,26	75,00
Sala de Atendimento Individual/Coletivo	9,00	18,84	0,50	3,80	43,62	157,03	200,00
Sala de Reunião	20,00	31,21	0,50	3,80	91,61	329,78	350,00
Sala de Apoio Administrativo	4,00	18,08	0,50	3,80	24,24	87,26	100,00
Sala Administrativa	3,00	10,50	0,50	3,80	16,65	59,94	100,00
Sala de Atendimento Coletivo 02	15,00	25,16	0,50	3,80	69,58	250,49	300,00
Sala de Atendimento Coletivo 01	17,00	25,26	0,50	3,80	77,23	278,03	300,00
Refeitório para Pacientes	36,00	54,32	1,40	5,70	281,25	1.012,49	1.100,00
Cozinha	10,00	27,01	1,40	5,70	94,81	341,33	484,00
Sala de Aplicação de Medicamentos	3,00	10,89	0,50	3,80	16,85	60,64	100,00
Posto de Enfermagem	2,00	7,80	0,50	3,80	11,50	41,40	100,00
Sala de Convivência	16,00	87,50	0,50	3,80	104,55	376,38	400,00
Estar	5,00	21,39	0,50	3,80	29,70	106,90	200,00
Quarto de Acolhimento 01	2,00	14,02	0,50	3,80	14,61	52,60	100,00
Quarto de Acolhimento 02	2,00	14,02	0,50	3,80	14,61	52,60	100,00
Quarto de Acolhimento 03	2,00	14,02	0,50	3,80	14,61	52,60	100,00
Quarto de Acolhimento 04	2,00	15,43	0,50	3,80	15,32	55,13	100,00
Quarto de Descanso Equipe Feminina	2,00	10,41	0,50	3,80	12,81	46,10	100,00
Quarto de Descanso Equipe Masculina	2,00	10,36	0,50	3,80	12,78	46,01	100,00

6. ESPECIFICAÇÃO SISTEMA DE RENOVAÇÃO DE AR - INSUFLAMENTO

AMBIENTE	ÁREA (m²)	CAPACIDADE ADOTADA (m³/h)	EQUIPAMENTO ADOTADO (Referência)	QTDE
Sala de Espera de Acolhimento	55,77	250,0	Gabinete de ventilação SICFLUX, mod. FH 400, vazão 2.100 m³/h, pressão est. 20 mmca, filtro G4+M5, motor elétrico 500 W, monofásico, 220V	01
Recepção	7,35	50,0		
Sala de TI / Servidor	3,64	50,0		
Farmácia	13,69	100,0		
Sala de Acolhimento	9,01	75,0		
Sala de Atendimento Individual 01	9,01	75,0		
Sala de Atendimento Individual 02	9,01	75,0		
Sala de Atendimento Individual 03	9,01	75,0		
Sala de Atendimento Individual/Coletivo	18,84	200,0		
Sala de Reunião	31,21	350,0		
Sala de Apoio Administrativo	18,08	100,0		
Sala Administrativa	10,75	100,0		
Sala de Atendimento Coletivo 02	25,16	300,0		
Sala de Atendimento Coletivo 01	25,26	300,0		

AMBIENTE	ÁREA (m ²)	CAPACIDADE ADOTADA (m ³ /h)	EQUIPAMENTO ADOTADO (Referência)	QTDE
Refeitório para Pacientes	54,32	1.100,00	Gabinete de ventilação SICFLUX, mod. FH 250, vazão 1.100 m ³ /h, pressão est. 15 mmca, filtro G4+M5, motor elétrico 200 W, monofásico, 220V	01
Cozinha	27,91	484,00	Gabinete de ventilação SICFLUX, mod. FH 150, vazão 484 m ³ /h, pressão est. 10 mmca, filtro G4+M5, motor elétrico 100 W, monofásico, 220V	01
Sala de Aplicação de Medicamento s	10,89	100,0	Gabinete de ventilação SICFLUX, mod. FH 400, vazão 1.400 m ³ /h, pressão est. 30 mmca, filtro G4+M5, motor elétrico 500 W, monofásico, 220V	01
Posto de Enfermagem	7,80	100,0		
Sala de Convivência	87,50	400,0		
Estar	21,39	200,0		
Quarto de Acolhimento 01	14,02	100,0		
Quarto de Acolhimento 02	14,02	100,0		
Quarto de Acolhimento 03	14,02	100,0		
Quarto de Acolhimento 04	15,43	100,0		
Quarto Descanso Equipe Feminina	10,41	100,0		
Quarto Descanso Equipe Masculina	10,36	100,0		

7. CÁLCULO DA VAZÃO DE EXAUSTÃO

EXAUSTÃO							
Ambiente	Area (m ²)	Volume (m ³)	Bacias	Fa	Vazão eficaz (l/s)	Vazão eficaz (m ³ /h)	Vazão Adotada (m ³ /h)
Sanitário Público Feminino	7,82	21,11	2,00	35,00	70,00	252,00	300,00
Sanitário Público Masculino	5,20	14,04	2,00	35,00	70,00	252,00	300,00
Sanitário Público PCD Masculino	3,70	9,99	1,00	35,00	35,00	126,00	150,00
Sanitário Público PCD Feminino/Família	3,70	9,99	1,00	35,00	35,00	126,00	150,00
DML	6,01	16,23	-	-	-	162,27	200,00
Sanitário Funcionários	3,25	8,78	1,00	35,00	35,00	126,00	150,00
Banheiro/Vestiário Funcionários Feminino	16,33	44,09	2,00	2,50	110,23	396,82	400,00
Banheiro Funcionários PCD	4,72	12,74	1,00	35,00	35,00	126,00	150,00
Banheiro para o Usuário	4,82	13,01	1,00	35,00	35,00	126,00	150,00
Banheiro PCD para o Usuário	4,81	12,99	1,00	35,00	35,00	126,00	150,00
Banheiro PCD Quarto 4	5,25	14,18	1,00	35,00	35,00	126,00	150,00
Lavanderia para o Usuário	5,45	14,72	-	-	-	147,15	200,00
Banheiro/Vestiário Funcionários Masculino	13,50	36,45	2,00	2,50	91,13	328,05	350,00
Banheiro Quarto 1	3,65	9,86	1,00	35,00	35,00	126,00	150,00
Banheiro Quarto 2	3,65	9,86	1,00	35,00	35,00	126,00	150,00
Banheiro Quarto 3	3,79	10,23	1,00	35,00	35,00	126,00	150,00
Cozinha	27,01	72,93		3,50	94,54	340,33	400,00

8. ESPECIFICAÇÃO SISTEMAS DE EXAUSTÃO

AMBIENTE	ÁREA (m ²)	CAPACIDADE ADOTADA (m ³ /h)	EQUIPAMENTO ADOTADO (Referência)	QTDE
Sanitário Público Feminino	7,82	300,00	Gabinete de exaustão SICFLUX, mod. FH 250, vazão 1.100 m ³ /h, pressão est. 20 mmca, motor elétrico 200 W, monofásico, 220V	01
Sanitário Público Masculino	5,20	300,00		
Sanitário Público PCD Masculino	3,70	150,00		
Sanitário Público PCD Feminino/Família	3,70	150,00		
DML	6,01	200,00		
Sanitário Funcionários	3,25	150,00	Gabinete de exaustão SICFLUX, mod. FH 100, vazão 150 m ³ /h, pressão est. 20 mmca, motor elétrico 100 W, monofásico, 220V	01

AMBIENTE	ÁREA (m²)	CAPACIDADE ADOTADA (m³/h)	EQUIPAMENTO ADOTADO (Referência)	QTDE
Banheiro/Vestiário Funcionários Feminino	16,33	400,00	Gabinete de exaustão SICFLUX, mod. FH 400, vazão 2.000 m³/h, pressão est. 32 mmca, motor elétrico 500 W, monofásico, 220V	01
Banheiro Funcionários PCD	4,72	150,00		
Banheiro para o Usuário	4,82	150,00		
Banheiro PCD para o Usuário	4,81	150,00		
Banheiro PCD Quarto 4	5,25	150,00		
Lavanderia para o Usuário	5,45	200,00		
Banheiro/Vestiário Funcionários Masculino	13,50	350,00		
Banheiro Quarto 1	3,65	150,0		
Banheiro Quarto 2	3,65	150,0		
Banheiro Quarto 3	3,79	150,0		
Cozinha	27,01	400,0	Gabinete de exaustão SICFLUX, mod. FH 150, vazão 400 m³/h, pressão est. 25 mmca, motor elétrico 100 W, monofásico, 220V	01

9. RELATÓRIO DE CÁLCULO DE CARGA TÉRMICA

Zone Sizing Summary for Sala Espera Acolhimento

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
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Air System Information

Air System Name Sala Espera Acolhimento
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 55.8 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	8.0	776	776	Jan 1700	0.2	55.8	13.91

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	9.8	7.6	23.8 / 18.9	15.7 / 15.3	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	776	0.000	0.000	0

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							
Sala Espera Acolhimento	1	8.0	Jan 1700	776	0.2	55.8	13.91

Air System Design Load Summary for Sala Espera Acolhimento

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

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	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	56 m²	3448	-	56 m²	217	-
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	0 m²	0	-	0 m²	0	-
Partitions	97 m²	1886	-	97 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	536 W	461	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	190 W	178	-	0	0	-
People	10	556	352	0	0	0
Infiltration	-	755	1637	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	728	199	0%	0	0
>> Total Zone Loads	-	8012	2188	-	217	0
Zone Conditioning	-	7589	2188	-	0	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	0 L/s	0	0	0 L/s	0	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	-	7589	2188	-	0	0
Terminal Unit Cooling	-	7589	2193	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	7589	2193	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Recepção

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
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Air System Information

Air System Name Recepção
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 7.4 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m ²)	Zone L/(s-m ²)
Zone 1	1.7	165	165	Jan 1700	0.0	7.4	22.30

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	2.1	1.6	23.7 / 18.8	15.6 / 15.1	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	165	0.000	0.000	0

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (kW)	Time of Load	Air Flow (L/s)	Heating Load (kW)	Floor Area (m ²)	Space L/(s-m ²)
Zone 1							
Recepção	1	1.7	Jan 1700	165	0.0	7.4	22.30

Air System Design Load Summary for Recepção

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
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ZONE LOADS	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	8 m²	463	-	8 m²	29	-
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	0 m²	0	-	0 m²	0	-
Partitions	30 m²	576	-	30 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	71 W	61	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	190 W	178	-	0	0	-
People	2	119	120	0	0	0
Infiltration	-	151	329	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	155	45	0%	0	0
>> Total Zone Loads	-	1703	494	-	29	0
Zone Conditioning	-	1621	494	-	0	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	0 L/s	0	0	0 L/s	0	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	-	1621	494	-	0	0
Terminal Unit Cooling	-	1621	495	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	1621	495	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala TI Servidor

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
11:53

Air System Information

Air System Name Sala TI Servidor
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 3.7 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m ²)	Zone L/(s-m ²)
Zone 1	2.0	197	197	Jan 1700	0.0	3.7	53.37

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	2.5	2.0	23.8 / 18.7	15.6 / 15.1	-	Feb 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	197	0.000	0.000	0

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (kW)	Time of Load	Air Flow (L/s)	Heating Load (kW)	Floor Area (m ²)	Space L/(s-m ²)
Zone 1							
Sala TI Servidor	1	2.0	Jan 1700	197	0.0	3.7	53.37

Air System Design Load Summary for Sala TI Servidor

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
11:53

ZONE LOADS	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Feb 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.4 °C / 26.6 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	4 m²	217	-	4 m²	14	-
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	0 m²	0	-	0 m²	0	-
Partitions	22 m²	428	-	22 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	39 W	33	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	1000 W	933	-	0	0	-
People	1	70	133	0	0	0
Infiltration	-	158	335	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	184	47	0%	0	0
>> Total Zone Loads	-	2024	516	-	14	0
Zone Conditioning	-	1958	516	-	0	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	0 L/s	0	0	0 L/s	0	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	-	1958	516	-	0	0
Terminal Unit Cooling	-	1958	517	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	1958	517	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Farmácia

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
11:54

Air System Information

Air System Name Farmácia
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 13.7 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.8	272	272	Jan 1700	0.1	13.7	19.82

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.5	2.7	23.8 / 18.9	15.7 / 15.2	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	272	0.000	0.000	0

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							
Farmácia	1	2.8	Jan 1700	272	0.1	13.7	19.82

Air System Design Load Summary for Farmácia

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
11:54

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	14 m²	846	-	14 m²	53	-
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	0 m²	0	-	0 m²	0	-
Partitions	42 m²	807	-	42 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	169 W	145	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	405 W	380	-	0	0	-
People	1	68	79	0	0	0
Infiltration	-	302	654	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	255	73	0%	0	0
>> Total Zone Loads	-	2803	806	-	53	0
Zone Conditioning	-	2663	806	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2663	806	-	0	0
Terminal Unit Cooling	-	2663	811	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2663	811	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Acolhimento

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
11:56

Air System Information

Air System Name Sala Acolhimento
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 9.0 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.4	228	228	Jan 1600	0.1	9.0	25.34

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.0	2.2	23.8 / 18.9	15.6 / 15.2	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	228	0.000	0.000	0

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							
Sala Acolhimento	1	2.4	Jan 1600	228	0.1	9.0	25.34

Air System Design Load Summary for Sala Acolhimento

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
11:56

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	240	-	1 m²	-	-
Wall Transmission	6 m²	160	-	6 m²	19	-
Roof Transmission	9 m²	556	-	9 m²	35	-
Window Transmission	1 m²	33	-	1 m²	8	-
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	26 m²	495	-	26 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	161 W	139	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	95 W	89	-	0	0	-
People	3	178	180	0	0	0
Infiltration	-	226	484	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	211	66	0%	0	0
>> Total Zone Loads	-	2326	731	-	63	0
Zone Conditioning	-	2231	731	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2231	731	-	0	0
Terminal Unit Cooling	-	2231	737	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2231	737	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Atend Individual 1

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
11:59

Air System Information

Air System Name Sala Atend Individual 1
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 9.0 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m ²)	Zone L/(s-m ²)
Zone 1	2.4	228	228	Jan 1600	0.1	9.0	25.34

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.0	2.2	23.8 / 18.9	15.6 / 15.2	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	228	0.000	0.000	0

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (kW)	Time of Load	Air Flow (L/s)	Heating Load (kW)	Floor Area (m ²)	Space L/(s-m ²)
Zone 1							
Sala Atend Individual 1	1	2.4	Jan 1600	228	0.1	9.0	25.34

Air System Design Load Summary for Sala Atend Individual 1

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/04/2025
11:59

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	240	-	1 m²	-	-
Wall Transmission	6 m²	160	-	6 m²	19	-
Roof Transmission	9 m²	556	-	9 m²	35	-
Window Transmission	1 m²	33	-	1 m²	8	-
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	26 m²	495	-	26 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	161 W	139	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	95 W	89	-	0	0	-
People	3	178	180	0	0	0
Infiltration	-	226	484	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	211	66	0%	0	0
>> Total Zone Loads	-	2326	731	-	63	0
Zone Conditioning	-	2231	731	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2231	731	-	0	0
Terminal Unit Cooling	-	2231	737	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2231	737	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Atend Individual 2

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:13

Air System Information

Air System Name Sala Atend Individual 2
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 9.0 m²
Location Salvador, Brazil

Sizing Calculation Information

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.4	228	228	Jan 1600	0.1	9.0	25.37

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.0	2.2	23.9 / 19.0	15.8 / 15.3	-	Jan 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @ 11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	228	0.000	0.000	0

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							
Sala Atend Individual 2	1	2.4	Jan 1600	228	0.1	9.0	25.37

Air System Design Load Summary for Sala Atend Individual 2

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:13

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1600 COOLING OA DB / WB 32.4 °C / 26.6 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	299	-	1 m²	-	-
Wall Transmission	6 m²	139	-	6 m²	20	-
Roof Transmission	9 m²	541	-	9 m²	35	-
Window Transmission	1 m²	34	-	1 m²	8	-
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	26 m²	492	-	26 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	161 W	137	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	95 W	89	-	0	0	-
People	3	175	180	0	0	0
Infiltration	-	236	480	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	214	66	0%	0	0
>> Total Zone Loads	-	2356	726	-	63	0
Zone Conditioning	-	2233	726	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2233	726	-	0	0
Terminal Unit Cooling	-	2233	727	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2233	727	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Atend Individual 3

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:15

Air System Information

Air System Name Sala Atend Individual 3
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 9.0 m²
Location Salvador, Brazil

Sizing Calculation Information

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.3	220	220	Jan 1600	0.1	9.0	24.46

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	2.9	2.2	23.7 / 18.8	15.4 / 15.0	-	Jan 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	220	0.000	0.000	0

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							
Sala Atend Individual 3	1	2.3	Jan 1600	220	0.1	9.0	24.46

Air System Design Load Summary for Sala Atend Individual 3

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:15

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.4 °C / 26.6 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	224	-	1 m²	-	-
Wall Transmission	6 m²	146	-	6 m²	21	-
Roof Transmission	9 m²	541	-	9 m²	35	-
Window Transmission	1 m²	25	-	1 m²	6	-
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	26 m²	492	-	26 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	161 W	137	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	95 W	89	-	0	0	-
People	3	175	180	0	0	0
Infiltration	-	236	490	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	207	67	0%	0	0
>> Total Zone Loads	-	2272	738	-	62	0
Zone Conditioning	-	2190	738	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2190	738	-	0	0
Terminal Unit Cooling	-	2190	740	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2190	740	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Atend Ind Coletivo

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:18

Air System Information

Air System Name Sala Atend Ind Coletivo
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 18.8 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	4.4	428	428	Jan 1700	0.2	18.8	22.78

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	6.2	4.2	23.8 / 19.3	15.6 / 15.2	-	Jan 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @ 11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	428	0.000	0.000	0

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							
Sala Atend Ind Coletivo	1	4.4	Jan 1700	428	0.2	18.8	22.78

Air System Design Load Summary for Sala Atend Ind Coletivo

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:18

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.4 °C / 26.6 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	2 m²	368	-	2 m²	-	-
Wall Transmission	22 m²	448	-	22 m²	72	-
Roof Transmission	19 m²	1130	-	19 m²	73	-
Window Transmission	2 m²	68	-	2 m²	16	-
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	24 m²	467	-	24 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	337 W	286	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	95 W	89	-	0	0	-
People	9	525	541	0	0	0
Infiltration	-	632	1217	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	401	176	0%	0	0
>> Total Zone Loads	-	4414	1933	-	161	0
Zone Conditioning	-	4215	1933	-	0	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	0 L/s	0	0	0 L/s	0	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	-	4215	1933	-	0	0
Terminal Unit Cooling	-	4215	1937	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	4215	1937	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala de Reunião

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda
12/07/2025
05:21

Air System Information

Air System Name Sala de Reunião
Equipment Class TERM
Air System Type SPLT-FC
Number of zones 1
Floor Area 31.2 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:
Zone L/s Sum of space airflow rates
Space L/s Individual peak space loads
Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	6.4	619	619	Jan 1700	0.1	31.2	19.83

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	9.7	6.1	23.7 / 19.6	15.5 / 15.2	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @ 11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	619	0.000	0.000	0

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							
Sala de Reunião	1	6.4	Jan 1700	619	0.1	31.2	19.83

Air System Design Load Summary for Sala de Reunião

Project Name: CAPS 3 SESAB dezembro 2025

12/07/2025

Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

05:21

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	31 m²	1928	-	31 m²	122	-
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	0 m²	0	-	0 m²	0	-
Partitions	65 m²	1265	-	65 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	328 W	282	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	95 W	89	-	0	0	-
People	20	1185	1202	0	0	0
Infiltration	-	1055	2014	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	580	322	0%	0	0
>> Total Zone Loads	-	6385	3538	-	122	0
Zone Conditioning	-	6115	3538	-	0	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	0 L/s	0	0	0 L/s	0	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	-	6115	3538	-	0	0
Terminal Unit Cooling	-	6115	3541	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	6115	3541	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Apoio Administrativo

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda
12/07/2025 05:22

Air System Information

Air System Name Sala Apoio Administrativo
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 18.1 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	3.8	368	368	Jan 1600	0.1	18.1	20.33

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	4.6	3.6	23.8 / 18.8	15.7 / 15.2	-	Feb 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	368	0.000	0.000	0

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							
Sala Apoio Administrativ	1	3.8	Jan 1600	368	0.1	18.1	20.33

Air System Design Load Summary for Sala Apoio Administrativo

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:22

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Feb 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	229	-	1 m²	-	-
Wall Transmission	7 m²	196	-	7 m²	24	-
Roof Transmission	18 m²	1091	-	18 m²	71	-
Window Transmission	1 m²	33	-	1 m²	8	-
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	39 m²	759	-	39 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	190 W	163	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	425 W	398	-	0	0	-
People	4	237	240	0	0	0
Infiltration	-	302	662	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	341	90	0%	0	0
>> Total Zone Loads	-	3750	993	-	103	0
Zone Conditioning	-	3599	993	-	0	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	0 L/s	0	0	0 L/s	0	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	-	3599	993	-	0	0
Terminal Unit Cooling	-	3599	994	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	3599	994	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Administrativa

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:23

Air System Information

Air System Name Sala Administrativa
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 10.8 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m ²)	Zone L/(s-m ²)
Zone 1	2.7	266	266	Jan 1600	0.1	10.8	24.65

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.5	2.6	23.6 / 18.9	15.5 / 15.1	-	Dec 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @ 11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	266	0.000	0.000	0

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (kW)	Time of Load	Air Flow (L/s)	Heating Load (kW)	Floor Area (m ²)	Space L/(s-m ²)
Zone 1							
Sala Administrativa	1	2.7	Jan 1600	266	0.1	10.8	24.65

Air System Design Load Summary for Sala Administrativa

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:23

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Dec 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 31.9 °C / 26.6 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	292	-	1 m²	-	-
Wall Transmission	6 m²	127	-	6 m²	18	-
Roof Transmission	11 m²	640	-	11 m²	42	-
Window Transmission	1 m²	32	-	1 m²	8	-
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	30 m²	565	-	30 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	113 W	96	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	235 W	219	-	0	0	-
People	3	175	180	0	0	0
Infiltration	-	297	664	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	244	84	0%	0	0
>> Total Zone Loads	-	2688	929	-	69	0
Zone Conditioning	-	2600	929	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2600	929	-	0	0
Terminal Unit Cooling	-	2600	931	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2600	931	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Atend Coletivo 2

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:25

Air System Information

Air System Name Sala Atend Coletivo 2
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 25.2 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	5.3	517	517	Jan 1700	0.1	25.2	20.51

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	7.7	5.1	23.7 / 19.3	15.4 / 15.0	-	Jan 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	517	0.000	0.000	0

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							
Sala Atend Coletivo 2	1	5.3	Jan 1700	517	0.1	25.2	20.51

Air System Design Load Summary for Sala Atend Coletivo 2

Project Name: CAPS 3 SESAB dezembro 2025

12/07/2025

Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

05:25

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.4 °C / 26.6 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	25 m²	1515	-	25 m²	98	-
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	0 m²	0	-	0 m²	0	-
Partitions	52 m²	1011	-	52 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	451 W	384	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	160 W	149	-	0	0	-
People	15	822	528	0	0	0
Infiltration	-	947	1813	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	483	234	0%	0	0
>> Total Zone Loads	-	5310	2576	-	98	0
Zone Conditioning	-	5132	2576	-	0	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	0 L/s	0	0	0 L/s	0	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	-	5132	2576	-	0	0
Terminal Unit Cooling	-	5132	2581	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	5132	2581	-	0	0
Key:	Positive values are ckg loads Negative values are htg loads			Positive values are htg loads Negative values are ckg loads		

Zone Sizing Summary for Sala Atend Coletivo 1

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:26

Air System Information

Air System Name Sala Atend Coletivo 1
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 25.3 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	6.0	586	586	Jan 1600	0.2	25.3	23.15

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	8.4	5.8	23.7 / 19.2	15.6 / 15.2	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @ 11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	586	0.000	0.000	0

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							
Sala Atend Coletivo 1	1	6.0	Jan 1600	586	0.2	25.3	23.15

Air System Design Load Summary for Sala Atend Coletivo 1

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:26

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	2 m²	480	-	2 m²	-	-
Wall Transmission	11 m²	292	-	11 m²	36	-
Roof Transmission	25 m²	1563	-	25 m²	99	-
Window Transmission	2 m²	66	-	2 m²	16	-
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	39 m²	761	-	39 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	453 W	390	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	160 W	150	-	0	0	-
People	15	834	528	0	0	0
Infiltration	-	904	1839	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	544	237	0%	0	0
>> Total Zone Loads	-	5984	2604	-	150	0
Zone Conditioning	-	5775	2604	-	0	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	0 L/s	0	-	0 L/s	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	-	5775	2604	-	0	0
Terminal Unit Cooling	-	5775	2623	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	5775	2623	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Cozinha

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:30

Air System Information

Air System Name Cozinha
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 27.9 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	7.2	698	698	Jan 1600	0.2	27.9	25.03

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	10.8	6.8	23.7 / 19.6	15.6 / 15.3	-	Feb 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	698	0.000	0.000	0

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							
Cozinha	1	7.2	Jan 1600	698	0.2	27.9	25.03

Air System Design Load Summary for Cozinha

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:30

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Feb 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	2 m²	343	-	2 m²	-	-
Wall Transmission	11 m²	290	-	11 m²	36	-
Roof Transmission	28 m²	1682	-	28 m²	109	-
Window Transmission	2 m²	50	-	2 m²	12	-
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	46 m²	898	-	46 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	299 W	257	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	840 W	788	-	0	0	-
People	10	678	791	0	0	0
Infiltration	-	1459	2775	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	644	357	0%	0	0
>> Total Zone Loads	-	7089	3923	-	156	0
Zone Conditioning	-	6827	3923	-	0	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	0 L/s	0	0	0 L/s	0	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	-	6827	3923	-	0	0
Terminal Unit Cooling	-	6827	3947	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	6827	3947	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Sala Aplic Medicamentos

Project Name: CAPS 3 SESAB dezembro 2025

12/07/2025

Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

05:30

Air System Information

Air System Name Sala Aplic Medicamentos
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 10.9 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.6	250	250	Jan 1700	0.0	10.9	22.92

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.3	2.4	23.7 / 18.9	15.6 / 15.2	-	Feb 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	250	0.000	0.000	0

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							
Sala Aplic Medicamentos	1	2.6	Jan 1700	250	0.0	10.9	22.92

Air System Design Load Summary for Sala Aplic Medicamentos

Project Name: CAPS 3 SESAB dezembro 2025

12/07/2025

Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

05:30

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Feb 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	11 m²	657	-	11 m²	42	-
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	0 m²	0	-	0 m²	0	-
Partitions	38 m²	743	-	38 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	195 W	168	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	310 W	291	-	0	0	-
People	3	167	106	0	0	0
Infiltration	-	302	646	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	233	75	0%	0	0
>> Total Zone Loads	-	2560	827	-	42	0
Zone Conditioning	-	2449	827	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2449	827	-	0	0
Terminal Unit Cooling	-	2449	828	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2449	828	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Posto Enfermagem

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda
12/07/2025
05:31

Air System Information

Air System Name Posto Enfermagem
Equipment Class TERM
Air System Type SPLT-FC
Number of zones 1
Floor Area 7.8 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:
Zone L/s Sum of space airflow rates
Space L/s Individual peak space loads
Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	1.9	187	187	Jan 1700	0.0	7.8	23.92

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	2.7	1.8	23.6 / 19.1	15.4 / 15.0	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @ 11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	187	0.000	0.000	0

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							
Posto Enfermagem	1	1.9	Jan 1700	187	0.0	7.8	23.92

Air System Design Load Summary for Posto Enfermagem

Project Name: CAPS 3 SESAB dezembro 2025

12/07/2025

Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

05:31

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB	32.0 °C / 26.5 °C		HEATING OA DB / WB	20.0 °C / 13.8 °C	
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m²	0	-	0 m²	-	-
Wall Transmission	0 m²	0	-	0 m²	0	-
Roof Transmission	8 m²	482	-	8 m²	30	-
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	0 m²	0	-	0 m²	0	-
Partitions	31 m²	600	-	31 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	82 W	70	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	190 W	178	-	0	0	-
People	2	119	120	0	0	0
Infiltration	-	302	623	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	175	74	0%	0	0
>> Total Zone Loads	-	1925	818	-	30	0
Zone Conditioning	-	1847	818	-	0	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	0 L/s	0	0	0 L/s	0	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	-	1847	818	-	0	0
Terminal Unit Cooling	-	1847	820	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	1847	820	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Quarto acolhimento 1

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
05:55

Air System Information

Air System Name Quarto acolhimento 1
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 14.0 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.9	281	281	Jan 1600	0.1	14.0	20.07

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.6	2.8	23.7 / 18.7	15.6 / 15.1	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	281	0.000	0.000	0

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							
Quarto acolhimento 1	1	2.9	Jan 1600	281	0.1	14.0	20.07

Air System Design Load Summary for Quarto acolhimento 1

Project Name: CAPS 3 SESAB dezembro 2025

12/07/2025

Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

05:55

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	240	-	1 m²	-	-
Wall Transmission	10 m²	268	-	10 m²	33	-
Roof Transmission	14 m²	865	-	14 m²	55	-
Window Transmission	1 m²	33	-	1 m²	8	-
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	36 m²	697	-	36 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	134 W	116	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	111	70	0	0	0
Infiltration	-	302	663	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	263	73	0%	0	0
>> Total Zone Loads	-	2894	807	-	95	0
Zone Conditioning	-	2764	807	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2764	807	-	0	0
Terminal Unit Cooling	-	2764	808	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2764	808	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Quarto acolhimento 2

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
06:33

Air System Information

Air System Name Quarto acolhimento 2
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 14.0 m²
Location Salvador, Brazil

Sizing Calculation Information

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.9	281	281	Jan 1600	0.1	14.0	20.07

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.6	2.8	23.7 / 18.7	15.6 / 15.1	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	281	0.000	0.000	0

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							
Quarto acolhimento 2	1	2.9	Jan 1600	281	0.1	14.0	20.07

Air System Design Load Summary for Quarto acolhimento 2

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
06:33

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	240	-	1 m²	-	-
Wall Transmission	10 m²	268	-	10 m²	33	-
Roof Transmission	14 m²	865	-	14 m²	55	-
Window Transmission	1 m²	33	-	1 m²	8	-
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	36 m²	697	-	36 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	134 W	116	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	111	70	0	0	0
Infiltration	-	302	663	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	263	73	0%	0	0
>> Total Zone Loads	-	2894	807	-	95	0
Zone Conditioning	-	2764	807	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2764	807	-	0	0
Terminal Unit Cooling	-	2764	808	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2764	808	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Quarto acolhimento 3

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
06:34

Air System Information

Air System Name Quarto acolhimento 3
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 14.0 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.9	281	281	Jan 1600	0.1	14.0	20.07

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.6	2.8	23.7 / 18.7	15.6 / 15.1	-	Jan 1700

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	281	0.000	0.000	0

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							
Quarto acolhimento 3	1	2.9	Jan 1600	281	0.1	14.0	20.07

Air System Design Load Summary for Quarto acolhimento 3

Project Name: CAPS 3 SESAB dezembro 2025

12/07/2025

Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

06:34

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.0 °C / 26.5 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	240	-	1 m²	-	-
Wall Transmission	10 m²	268	-	10 m²	33	-
Roof Transmission	14 m²	865	-	14 m²	55	-
Window Transmission	1 m²	33	-	1 m²	8	-
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	36 m²	697	-	36 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	134 W	116	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	111	70	0	0	0
Infiltration	-	302	663	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	263	73	0%	0	0
>> Total Zone Loads	-	2894	807	-	95	0
Zone Conditioning	-	2764	807	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2764	807	-	0	0
Terminal Unit Cooling	-	2764	808	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2764	808	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Quarto acolhimento 4

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
06:36

Air System Information

Air System Name Quarto acolhimento 4
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 15.4 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s-m²)
Zone 1	2.9	280	280	Jan 1700	0.1	15.4	18.16

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	3.6	2.7	23.7 / 18.8	15.6 / 15.1	-	Jan 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	280	0.000	0.000	0

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							
Quarto acolhimento 4	1	2.9	Jan 1700	280	0.1	15.4	18.16

Air System Design Load Summary for Quarto acolhimento 4

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
06:36

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32.4 °C / 26.6 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	299	-	1 m²	-	-
Wall Transmission	19 m²	422	-	19 m²	62	-
Roof Transmission	15 m²	926	-	15 m²	60	-
Window Transmission	1 m²	34	-	1 m²	8	-
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	20 m²	386	-	20 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	148 W	126	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	110	70	0	0	0
Infiltration	-	316	660	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	10% / 10%	262	73	0%	0	0
>> Total Zone Loads	-	2880	804	-	130	0
Zone Conditioning	-	2748	804	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2748	804	-	0	0
Terminal Unit Cooling	-	2748	807	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2748	807	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Quarto descanso feminino

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
07:00

Air System Information

Air System Name Quarto descanso feminino
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 10.4 m²
Location Salvador, Brazil

Sizing Calculation Information

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m ²)	Zone L/(s-m ²)
Zone 1	2.2	212	212	Jan 1600	0.1	10.4	20.43

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	2.8	2.0	23.7 / 19.1	15.8 / 15.3	-	Dec 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @ 11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	212	0.000	0.000	0

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (kW)	Time of Load	Air Flow (L/s)	Heating Load (kW)	Floor Area (m ²)	Space L/(s-m ²)
Zone 1							
Quarto descanso feminino	1	2.2	Jan 1600	212	0.1	10.4	20.43

Air System Design Load Summary for Quarto descanso feminino

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

12/07/2025
07:00

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Dec 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 31.9 °C / 26.6 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	219	-	1 m²	-	-
Wall Transmission	6 m²	127	-	6 m²	18	-
Roof Transmission	10 m²	616	-	10 m²	41	-
Window Transmission	1 m²	24	-	1 m²	6	-
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	30 m²	560	-	30 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	100 W	85	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	110	70	0	0	0
Infiltration	-	297	649	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	5% / 5%	102	36	0%	0	0
>> Total Zone Loads	-	2139	755	-	65	0
Zone Conditioning	-	2035	755	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2035	755	-	0	0
Terminal Unit Cooling	-	2035	756	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2035	756	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Sizing Summary for Quarto descanso masculino

Project Name: CAPS 3 SESAB dezembro 2025
Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda
12/07/2025
07:01

Air System Information

Air System Name Quarto descanso masculino
Equipment Class TERM
Air System Type SPLT-FC

Number of zones 1
Floor Area 10.4 m²
Location Salvador, Brazil

Sizing Calculation Information

Zone and Space Sizing Method:

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

Calculation Months Jan to Dec
Sizing Data Calculated

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (kW)	Design Air Flow (L/s)	Minimum Air Flow (L/s)	Time of Peak Load	Maximum Heating Load (kW)	Zone Floor Area (m²)	Zone L/(s·m²)
Zone 1	2.2	212	212	Jan 1600	0.1	10.4	20.43

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Load (kW)	Sens Coil Load (kW)	Coil Entering DB / WB (°C)	Coil Leaving DB / WB (°C)	Water Flow @ 5.6 °K (L/s)	Time of Peak Load
Zone 1	2.8	2.0	23.7 / 19.1	15.8 / 15.3	-	Dec 1600

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load (kW)	Heating Coil Ent/Lvg DB (°C)	Htg Coil Water Flow @11.1 °K (L/s)	Fan Design AirFlow (L/s)	Fan Motor (BHP)	Fan Motor (kW)	OA Vent Design AirFlow (L/s)
Zone 1	0.0	-18.3 / -18.3	0.00	212	0.000	0.000	0

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							
Quarto descanso masculin	1	2.2	Jan 1600	212	0.1	10.4	20.43

Air System Design Load Summary for Quarto descanso masculino

Project Name: CAPS 3 SESAB dezembro 2025

12/07/2025

Prepared by: Promec Eng Rep e Serviços de Projetos e Inst Ltda

07:01

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Dec 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 31.9 °C / 26.6 °C			HEATING OA DB / WB 20.0 °C / 13.8 °C		
ZONE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	1 m²	219	-	1 m²	-	-
Wall Transmission	6 m²	127	-	6 m²	18	-
Roof Transmission	10 m²	616	-	10 m²	41	-
Window Transmission	1 m²	24	-	1 m²	6	-
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	30 m²	560	-	30 m²	0	-
Ceiling	0 m²	0	-	0 m²	0	-
Overhead Lighting	100 W	85	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	110	70	0	0	0
Infiltration	-	297	649	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	5% / 5%	102	36	0%	0	0
>> Total Zone Loads	-	2139	755	-	65	0
Zone Conditioning	-	2035	755	-	0	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	0 L/s	0	0	0 L/s	0	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	-	2035	755	-	0	0
Terminal Unit Cooling	-	2035	756	-	0	0
Terminal Unit Heating	-	0	-	-	0	-
>> Total Conditioning	-	2035	756	-	0	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

10.ESPECIFICAÇÃO EQUIPAMENTOS DE CLIMATIZAÇÃO

AMBIENTE	ÁREA (m²)	CARGA TÉRMICA (kW)	CARGA TÉRMICA (BTU/h)	CAPACIDADE ADOTADA (BTU/h)	EQUIPAMENTO SPLIT REFERÊNCIA	QTDE.	CAPACIDADE INDIVIDUAL (BTU/h)
Sala de Espera de Acolhimento	55,77	9,8	33.439	36.000	PISO TETO	01	36.000
Recepção	7,35	2,1	7.166	9.000	HI WALL	01	9.000
Sala de TI / Servidor	3,64	2,5	8.531	9.000	HI WALL	01	9.000
Farmácia	13,69	3,5	11.943	12.000	HI WALL	01	12.000
Sala de Acolhimento	9,01	3,0	10.236	12.000	HI WALL	01	12.000
Sala de Atendimento Individual 01	9,01	3,0	10.236	12.000	HI WALL	01	12.000
Sala de Atendimento Individual 02	9,01	3,0	10.236	12.000	HI WALL	01	12.000
Sala de Atendimento Individual 03	9,01	2,9	9.895	12.000	HI WALL	01	12.000
Sala de Atendimento Individual/Coletivo	18,84	6,2	21.155	24.000	HI WALL	01	24.000
Sala de Reunião	31,21	9,7	33.098	36.000	PISO TETO	01	36.000
Sala de Apoio Administrativo	18,08	4,6	15.696	18.000	HI WALL	01	18.000
Sala Administrativa	10,75	3,5	11.943	12.000	HI WALL	01	12.000
Sala de Atendimento Coletivo 02	25,16	7,7	26.274	30.000	HI WALL	01	30.000
Sala de Atendimento Coletivo 01	25,26	8,4	28.662	30.000	HI WALL	01	30.000
Refeitório para Pacientes	54,32	Sem climatização					
Cozinha	27,91	10,8	36.851	36.000	PISO TETO	01	36.000
Sala de Aplicação de Medicamentos	10,89	3,3	11.260	12.000	HI WALL	01	12.000
Posto de Enfermagem	7,80	2,7	9.213	9.000	HI WALL	01	9.000

AMBIENTE	ÁREA (m²)	CARGA TÉRMICA (kW)	CARGA TÉRMICA (BTU/h)	CAPACIDADE ADOTADA (BTU/h)	EQUIPAMENTO SPLIT REFERÊNCIA	QTDE.	CAPACIDADE INDIVIDUAL (BTU/h)
Sala de Convivência	87,50	Sem climatização					
Estar	21,39	Sem climatização					
Quarto de Acolhimento 01	14,02	3,6	12.884	12.000	HI WALL	01	12.000
Quarto de Acolhimento 02	14,02	3,6	12.884	12.000	HI WALL	01	12.000
Quarto de Acolhimento 03	14,02	3,6	12.884	12.000	HI WALL	01	12.000
Quarto de Acolhimento 04	15,43	3,6	12.884	12.000	HI WALL	01	12.000
Quarto de Descanso Equipe Feminina	10,41	2,8	9.554	9.000	HI WALL	01	9.000
Quarto de Descanso Equipe Masculina	10,36	2,8	9.554	9.000	HI WALL	01	9.000