

Space Input Data

Laboratory_Alhair
ECG

02/15/2025
03:43PM

CHEM.Lab Supervision

1. General Details:

Floor Area 21.1 m²
Avg. Ceiling Height 3.5 m
Building Weight 341.8 kg/m²

1.1. OA Ventilation Requirements:

Space Usage User-Defined
OA Requirement 1 100 % of supply air
OA Requirement 2 0.00 L/(s·m²)
Space Usage Defaults .. ASHRAE Standard 62.1-2016

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)
Wattage 14.00 W/m²
Ballast Multiplier 1.00
Schedule Sample Schedule

2.2. Task Lighting:

Wattage 0.00 W/m²
Schedule None

2.3. Electrical Equipment:

Wattage 30.00 W/m²
Schedule Sample Schedule

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (m ²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	16.5	0	0	0
E	7.0	0	0	0

3.1. Construction Types for Exposure N

Wall Type External Wall

3.2. Construction Types for Exposure E

Wall Type External Wall

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 L/s
Design Heating 0.00 L/s
Energy Analysis 0.00 L/s

Infiltration occurs only when the fan is off.

6. Floors:

Type Slab Floor On Grade
Floor Area 21.1 m²
Total Floor U-Value 0.568 W/(m²·K)
Exposed Perimeter 6.8 m
Edge Insulation R-Value 2.00 (m²·K)/W

7. Partitions:

7.1. 1st Partition Details:

Partition Type Wall Partition
Area 7.1 m²
U-Value 0.570 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

2.4. People:

Occupancy 3.0 People
Activity Level Office Work
Sensible 71.8 W/person
Latent 60.1 W/person
Schedule Sample Schedule

2.5. Miscellaneous Loads:

Sensible 0 W
Schedule None
Latent 0 W
Schedule None

7.2. 2nd Partition Details:

Partition Type Ceiling Partition
Area 10.0 m²
U-Value 0.450 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

Space Input Data

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Cold Store Room

1. General Details:

Floor Area 8.1 m²
Avg. Ceiling Height 3.5 m
Building Weight 341.8 kg/m²

1.1. OA Ventilation Requirements:

Space Usage User-Defined
OA Requirement 1 100 % of supply air
OA Requirement 2 0.00 L/(s·m²)
Space Usage Defaults .. ASHRAE Standard 62.1-2016

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)
Wattage 12.00 W/m²
Ballast Multiplier 1.00
Schedule Sample Schedule

2.2. Task Lighting:

Wattage 0.00 W/m²
Schedule None

2.3. Electrical Equipment:

Wattage 0.00 W/m²
Schedule None

3. Walls, Windows, Doors:

(No Wall, Window, Door data).

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 L/s
Design Heating 0.00 L/s
Energy Analysis 0.00 L/s

Infiltration occurs only when the fan is off.

6. Floors:

Type Slab Floor On Grade
Floor Area 8.1 m²
Total Floor U-Value 0.568 W/(m²·K)
Exposed Perimeter 0.0 m
Edge Insulation R-Value 0.00 (m²·K)/W

7. Partitions:

7.1. 1st Partition Details:

Partition Type Wall Partition
Area 15.0 m²
U-Value 0.570 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

2.4. People:

Occupancy 1.0 Person
Activity Level Office Work
Sensible 71.8 W/person
Latent 60.1 W/person
Schedule Sample Schedule

2.5. Miscellaneous Loads:

Sensible 0 W
Schedule None
Latent 0 W
Schedule None

7.2. 2nd Partition Details:

Partition Type Ceiling Partition
Area 4.0 m²
U-Value 0.450 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

Space Input Data

Laboratory_Alhair
ECG

02/15/2025
03:43PM

Gloves Store Room

1. General Details:

Floor Area 3.0 m²
Avg. Ceiling Height 3.5 m
Building Weight 341.8 kg/m²

1.1. OA Ventilation Requirements:

Space Usage User-Defined
OA Requirement 1 100 % of supply air
OA Requirement 2 0.00 L/(s·m²)
Space Usage Defaults .. ASHRAE Standard 62.1-2016

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)
Wattage 12.00 W/m²
Ballast Multiplier 1.00
Schedule Sample Schedule

2.2. Task Lighting:

Wattage 0.00 W/m²
Schedule None

2.3. Electrical Equipment:

Wattage 0.00 W/m²
Schedule None

3. Walls, Windows, Doors:

(No Wall, Window, Door data).

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 L/s
Design Heating 0.00 L/s
Energy Analysis 0.00 L/s

Infiltration occurs only when the fan is off.

6. Floors:

Type Slab Floor On Grade
Floor Area 3.0 m²
Total Floor U-Value 0.568 W/(m²·K)
Exposed Perimeter 0.0 m
Edge Insulation R-Value 0.00 (m²·K)/W

7. Partitions:

7.1. 1st Partition Details:

Partition Type Wall Partition
Area 16.0 m²
U-Value 0.570 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

2.4. People:

Occupancy 1.0 Person
Activity Level Office Work
Sensible 71.8 W/person
Latent 60.1 W/person
Schedule Sample Schedule

2.5. Miscellaneous Loads:

Sensible 0 W
Schedule None
Latent 0 W
Schedule None

7.2. 2nd Partition Details:

Partition Type Ceiling Partition
Area 1.5 m²
U-Value 0.450 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

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Hall Way

1. General Details:

Floor Area 29.2 m²
Avg. Ceiling Height 3.5 m
Building Weight 341.8 kg/m²

1.1. OA Ventilation Requirements:

Space Usage User-Defined
OA Requirement 1 100 % of supply air
OA Requirement 2 0.00 L/(s·m²)
Space Usage Defaults .. ASHRAE Standard 62.1-2016

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)
Wattage 12.00 W/m²
Ballast Multiplier 1.00
Schedule Sample Schedule

2.4. People:

Occupancy 2.0 People
Activity Level Office Work
Sensible 71.8 W/person
Latent 60.1 W/person
Schedule Sample Schedule

2.2. Task Lighting:

Wattage 0.00 W/m²
Schedule None

2.5. Miscellaneous Loads:

Sensible 0 W
Schedule None
Latent 0 W
Schedule None

2.3. Electrical Equipment:

Wattage 0.00 W/m²
Schedule None

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (m ²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
S	4.0	0	0	0
N	7.0	0	0	0

3.1. Construction Types for Exposure S

Wall Type External Wall

3.2. Construction Types for Exposure N

Wall Type External Wall

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 L/s
Design Heating 0.00 L/s
Energy Analysis 0.00 L/s

Infiltration occurs only when the fan is off.

6. Floors:

Type Slab Floor On Grade
Floor Area 29.2 m²
Total Floor U-Value 0.568 W/(m²·K)
Exposed Perimeter 0.0 m
Edge Insulation R-Value 0.00 (m²·K)/W

7. Partitions:

7.1. 1st Partition Details:

Partition Type Wall Partition
Area 25.0 m²
U-Value 0.570 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

7.2. 2nd Partition Details:

Partition Type Ceiling Partition
Area 14.5 m²
U-Value 0.450 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

Space Input Data

Laboratory_Alhair
ECG

02/15/2025
03:43PM

Laboratory Hall

1. General Details:

Floor Area **64.6** m²
Avg. Ceiling Height **3.5** m
Building Weight **341.8** kg/m²

1.1. OA Ventilation Requirements:

Space Usage **User-Defined**
OA Requirement 1 **100** % of supply air
OA Requirement 2 **0.00** L/(s·m²)
Space Usage Defaults .. **ASHRAE Standard 62.1-2016**

2. Internals:

2.1. Overhead Lighting:

Fixture Type **Recessed (Unvented)**
Wattage **14.00** W/m²
Ballast Multiplier **1.00**
Schedule **Sample Schedule**

2.2. Task Lighting:

Wattage **0.00** W/m²
Schedule **None**

2.3. Electrical Equipment:

Wattage **30.00** W/m²
Schedule **Sample Schedule**

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (m ²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	21.0	3	0	0
E	40.0	5	0	0
S	21.0	0	0	0

3.1. Construction Types for Exposure N

Wall Type **External Wall**
1st Window Type **1 * 1**

3.2. Construction Types for Exposure E

Wall Type **External Wall**
1st Window Type **1 * 1**

3.3. Construction Types for Exposure S

Wall Type **External Wall**

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling **0.00** L/s
Design Heating **0.00** L/s
Energy Analysis **0.00** L/s
Infiltration occurs only when the fan is off.

6. Floors:

Type **Slab Floor On Grade**
Floor Area **64.6** m²
Total Floor U-Value **0.568** W/(m²·K)
Exposed Perimeter **0.0** m
Edge Insulation R-Value **0.00** (m²·K)/W

7. Partitions:

7.1. 1st Partition Details:

Partition Type **Wall Partition**
Area **16.0** m²
U-Value **0.570** W/(m²·K)
Uncondit. Space Max Temp **41.3** °C
Ambient at Space Max Temp **46.3** °C

2.4. People:

Occupancy **9.0** People
Activity Level **Office Work**
Sensible **71.8** W/person
Latent **60.1** W/person
Schedule **Sample Schedule**

2.5. Miscellaneous Loads:

Sensible **0** W
Schedule **None**
Latent **0** W
Schedule **None**

Uncondit. Space Min Temp **23.9** °C
Ambient at Space Min Temp **12.8** °C

7.2. 2nd Partition Details:

Partition Type	Ceiling Partition	Uncondit. Space Max Temp	41.3 °C
Area	30.0 m²	Ambient at Space Max Temp	46.3 °C
U-Value	0.450 W/(m²·K)	Uncondit. Space Min Temp	23.9 °C
		Ambient at Space Min Temp	12.8 °C

Space Input Data

Laboratory_Alhair
ECG

02/15/2025
03:43PM

Micro.Test Sludge RM.

1. General Details:

Floor Area 16.1 m²
Avg. Ceiling Height 3.5 m
Building Weight 341.8 kg/m²

1.1. OA Ventilation Requirements:

Space Usage User-Defined
OA Requirement 1 100 % of supply air
OA Requirement 2 0.00 L/(s·m²)
Space Usage Defaults .. ASHRAE Standard 62.1-2016

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)
Wattage 14.00 W/m²
Ballast Multiplier 1.00
Schedule Sample Schedule

2.2. Task Lighting:

Wattage 0.00 W/m²
Schedule None

2.3. Electrical Equipment:

Wattage 30.00 W/m²
Schedule Sample Schedule

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (m ²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
S	17.5	0	0	0

3.1. Construction Types for Exposure S

Wall Type External Wall

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 L/s
Design Heating 0.00 L/s
Energy Analysis 0.00 L/s

Infiltration occurs only when the fan is off.

6. Floors:

Type Slab Floor On Grade
Floor Area 16.1 m²
Total Floor U-Value 0.568 W/(m²·K)
Exposed Perimeter 5.0 m
Edge Insulation R-Value 2.00 (m²·K)/W

7. Partitions:

7.1. 1st Partition Details:

Partition Type Wall Partition
Area 3.8 m²
U-Value 0.570 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

2.4. People:

Occupancy 3.0 People
Activity Level Office Work
Sensible 71.8 W/person
Latent 60.1 W/person
Schedule Sample Schedule

2.5. Miscellaneous Loads:

Sensible 0 W
Schedule None
Latent 0 W
Schedule None

7.2. 2nd Partition Details:

Partition Type Ceiling Partition
Area 8.0 m²
U-Value 0.450 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

Space Input Data

Laboratory_Alhair
ECG

02/15/2025
03:43PM

Micro.Test Sweage RM.

1. General Details:

Floor Area 18.2 m²
Avg. Ceiling Height 3.5 m
Building Weight 341.8 kg/m²

1.1. OA Ventilation Requirements:

Space Usage User-Defined
OA Requirement 1 100 % of supply air
OA Requirement 2 0.00 L/(s·m²)
Space Usage Defaults .. ASHRAE Standard 62.1-2016

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)
Wattage 14.00 W/m²
Ballast Multiplier 1.00
Schedule Sample Schedule

2.4. People:

Occupancy 3.0 People
Activity Level Office Work
Sensible 71.8 W/person
Latent 60.1 W/person
Schedule Sample Schedule

2.2. Task Lighting:

Wattage 0.00 W/m²
Schedule None

2.5. Miscellaneous Loads:

Sensible 0 W
Schedule None
Latent 0 W
Schedule None

2.3. Electrical Equipment:

Wattage 30.00 W/m²
Schedule Sample Schedule

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (m ²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
W	6.0	0	0	0
S	5.2	0	0	0
SE	10.0	0	0	0

3.1. Construction Types for Exposure W

Wall Type External Wall

3.2. Construction Types for Exposure S

Wall Type External Wall

3.3. Construction Types for Exposure SE

Wall Type External Wall

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 L/s
Design Heating 0.00 L/s
Energy Analysis 0.00 L/s

Infiltration occurs only when the fan is off.

6. Floors:

Type Slab Floor On Grade
Floor Area 18.2 m²
Total Floor U-Value 0.568 W/(m²·K)
Exposed Perimeter 6.3 m
Edge Insulation R-Value 2.00 (m²·K)/W

7. Partitions:

7.1. 1st Partition Details:

Partition Type Wall Partition
Area 7.0 m²
U-Value 0.570 W/(m²·K)
Uncondit. Space Max Temp 23.9 °C
Ambient at Space Max Temp 35.0 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

7.2. 2nd Partition Details:

Partition Type Ceiling Partition
Area 9.0 m²
U-Value 0.450 W/(m²·K)
Uncondit. Space Max Temp 23.9 °C
Ambient at Space Max Temp 35.0 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

Space Input Data

Laboratory_Alhair
ECG

02/15/2025
03:43PM

Sample Collection&Prep.

1. General Details:

Floor Area 18.9 m²
Avg. Ceiling Height 3.5 m
Building Weight 341.8 kg/m²

1.1. OA Ventilation Requirements:

Space Usage User-Defined
OA Requirement 1 100 % of supply air
OA Requirement 2 0.00 L/(s·m²)
Space Usage Defaults .. ASHRAE Standard 62.1-2016

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)
Wattage 14.00 W/m²
Ballast Multiplier 1.00
Schedule Sample Schedule

2.2. Task Lighting:

Wattage 0.00 W/m²
Schedule None

2.3. Electrical Equipment:

Wattage 30.00 W/m²
Schedule Sample Schedule

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (m ²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
N	14.7	0	0	0
W	8.8	0	0	0

3.1. Construction Types for Exposure N

Wall Type External Wall

3.2. Construction Types for Exposure W

Wall Type External Wall

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 L/s
Design Heating 0.00 L/s
Energy Analysis 0.00 L/s
Infiltration occurs only when the fan is off.

6. Floors:

Type Slab Floor On Grade
Floor Area 18.9 m²
Total Floor U-Value 0.568 W/(m²·K)
Exposed Perimeter 6.3 m
Edge Insulation R-Value 2.00 (m²·K)/W

7. Partitions:

7.1. 1st Partition Details:

Partition Type Wall Partition
Area 8.0 m²
U-Value 0.570 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C

7.2. 2nd Partition Details:

Partition Type Ceiling Partition
Area 10.0 m²
U-Value 0.450 W/(m²·K)
Uncondit. Space Max Temp 41.3 °C
Ambient at Space Max Temp 46.3 °C
Uncondit. Space Min Temp 23.9 °C
Ambient at Space Min Temp 12.8 °C