

Project Information

Project Name:	Greenwood Ave Apts		
Project Location:	SEATTLE, WA		
Default Heating Temperature:	70° F	Heating Safety Factor (Room):	0%
		Heating Safety Factor (Ventilation):	0%
Default Cooling Temperature:	75° F	Cooling Safety Factor (Room):	0%
		Cooling Safety Factor (Ventilation):	0%
Default Relative Humidity:	50%	Floor Slab Heat Loss Coefficient:	0.54
Calculation Date:	December 16, 2021, 12:28 a.m.		

Design Conditions

OSA Low:	25° F	Latitude:	48° N
OSA Daily Range:	18° F	Elevation:	9'
	OSA High Dry Bulb	OSA High Wet Bulb	
January	54° F	49° F	
July	83° F	66° F	
December	54° F	51° F	

Wall Types

Wall Type	U-Value	ASHRAE Type	Color	Description
2018 SEA MASS WALL	0.057	9	Dark	Code Min Mass Wall
2018 Seattle Code Minimum Wood Frame	0.051	5	Dark	Wood - GWB - R25

Walls

Room Number	Length	Height	Area (Minus Doors and Glass)	Type	Facing Direction	On Perimeter
01	9'-11"	10'	41 ft ²	2018 Seattle Code Minimum Wood Frame	W	
02	12'-7"	10'	67 ft ²	2018 Seattle Code Minimum Wood Frame	W	
02	32'-4"	10'	324 ft ²	2018 Seattle Code Minimum Wood Frame	N	
101	13'-9"	10'	80 ft ²	2018 Seattle Code Minimum Wood Frame	W	
101	31'-7"	10'	315 ft ²	2018 Seattle Code Minimum Wood Frame	S	
102	13'-10"	10'	80 ft ²	2018 Seattle Code Minimum Wood Frame	W	
102	32'-4"	10'	324 ft ²	2018 Seattle Code Minimum Wood Frame	N	
201	11'-8"	10'	42 ft ²	2018 Seattle Code Minimum Wood Frame	W	
201	51'-6"	10'	515 ft ²	2018 Seattle Code Minimum Wood Frame	S	
202	15'-11"	10'	75 ft ²	2018 Seattle Code Minimum Wood Frame	W	
202	39'-7"	10'	295 ft ²	2018 Seattle Code Minimum Wood Frame	N	
203	13'-8"	10'	52 ft ²	2018 Seattle Code Minimum Wood Frame	E	
203	40'-6"	10'	334 ft ²	2018 Seattle Code Minimum Wood Frame	N	
204	27'-8"	10'	277 ft ²	2018 Seattle Code Minimum Wood Frame	S	
204	1'	10'	10 ft ²	2018 Seattle Code Minimum Wood Frame	S	
204	10'-4"	10'	52 ft ²	2018 Seattle Code Minimum Wood Frame	E	
204	3'-6"	10'	35 ft ²	2018 Seattle Code Minimum Wood Frame	E	
301, 401, 501	11'-8"	10'	42 ft ²	2018 Seattle Code Minimum Wood Frame	W	
301, 401, 501	51'-6"	10'	515 ft ²	2018 Seattle Code Minimum Wood Frame	S	
302, 402, 502	15'-11"	10'	75 ft ²	2018 Seattle Code Minimum Wood Frame	W	
302, 402, 502	39'-7"	10'	295 ft ²	2018 Seattle Code Minimum Wood Frame	N	
303, 403, 503	13'-8"	10'	52 ft ²	2018 Seattle Code Minimum Wood Frame	E	

Walls

Room Number	Length	Height	Area (Minus Doors and Glass)	Type	Facing Direction	On Perimeter
303, 403, 503	40'-6"	10'	334 ft ²	2018 Seattle Code Minimum Wood Frame	N	
304, 404, 504	27'-8"	10'	277 ft ²	2018 Seattle Code Minimum Wood Frame	S	
304, 404, 504	1'	10'	10 ft ²	2018 Seattle Code Minimum Wood Frame	S	
304, 404, 504	10'-4"	10'	52 ft ²	2018 Seattle Code Minimum Wood Frame	E	
304, 404, 504	3'-6"	10'	35 ft ²	2018 Seattle Code Minimum Wood Frame	E	
601	11'-8"	10'	48 ft ²	2018 Seattle Code Minimum Wood Frame	W	
601	46'-6"	10'	465 ft ²	2018 Seattle Code Minimum Wood Frame	S	
602	15'-11"	10'	68 ft ²	2018 Seattle Code Minimum Wood Frame	W	
602	34'-7"	10'	269 ft ²	2018 Seattle Code Minimum Wood Frame	N	
603	12'	10'	55 ft ²	2018 Seattle Code Minimum Wood Frame	E	
603	36'-4"	10'	270 ft ²	2018 Seattle Code Minimum Wood Frame	N	
604	24'-6"	10'	245 ft ²	2018 Seattle Code Minimum Wood Frame	S	
604	15'-5"	10'	58 ft ²	2018 Seattle Code Minimum Wood Frame	E	
LOUNG 107 & 109	29'-11"	10'	299 ft ²	2018 SEA MASS WALL	S	
LOUNG 107 & 109	20'-9"	10'	17 ft ²	2018 Seattle Code Minimum Wood Frame	E	

Glass Types

Glass Type	U-Value	SHGC	Description
2013 CA Min - Fixed	0.36	0.25	2013 CA Minimum - Fixed
2018 SEA Min - Entrance Door	0.6	0.38	
2018 SEA Min - Fixed	0.34	0.38	
2018 SEA Min - Operable	0.36	0.38	

Glass

Room Number	Area	Type	Facing Direction	Shaded
01	23 ft ²	2018 SEA Min - Operable	W	
01	36 ft ²	2018 SEA Min - Fixed	W	
02	23 ft ²	2018 SEA Min - Operable	W	
02	36 ft ²	2018 SEA Min - Fixed	W	
101	22 ft ²	2018 SEA Min - Entrance Door	W	
101	36 ft ²	2018 SEA Min - Fixed	W	
102	22 ft ²	2018 SEA Min - Entrance Door	W	
102	36 ft ²	2018 SEA Min - Fixed	W	
201	25 ft ²	2018 SEA Min - Entrance Door	W	
201	50 ft ²	2018 SEA Min - Fixed	W	
202	26 ft ²	2018 SEA Min - Entrance Door	W	
202	58 ft ²	2018 SEA Min - Fixed	W	
202	25 ft ²	2018 SEA Min - Operable	N	
202	76 ft ²	2018 SEA Min - Fixed	N	
203	19 ft ²	2018 SEA Min - Operable	E	
203	65 ft ²	2018 SEA Min - Fixed	E	
203	38 ft ²	2018 SEA Min - Operable	N	
203	33 ft ²	2018 SEA Min - Fixed	N	

Glass

Room Number	Area	Type	Facing Direction	Shaded
204	22 ft ²	2018 SEA Min - Operable	E	
204	29 ft ²	2018 SEA Min - Fixed	E	
301, 401, 501	50 ft ²	2018 SEA Min - Fixed	W	
301, 401, 501	25 ft ²	2018 SEA Min - Entrance Door	W	
302, 402, 502	58 ft ²	2018 SEA Min - Fixed	W	
302, 402, 502	26 ft ²	2018 SEA Min - Entrance Door	W	
302, 402, 502	76 ft ²	2018 SEA Min - Fixed	N	
302, 402, 502	25 ft ²	2018 SEA Min - Operable	N	
303, 403, 503	65 ft ²	2018 SEA Min - Fixed	E	
303, 403, 503	19 ft ²	2018 SEA Min - Operable	E	
303, 403, 503	33 ft ²	2018 SEA Min - Fixed	N	
303, 403, 503	38 ft ²	2018 SEA Min - Operable	N	
304, 404, 504	29 ft ²	2018 SEA Min - Fixed	E	
304, 404, 504	22 ft ²	2018 SEA Min - Operable	E	
601	22 ft ²	2018 SEA Min - Entrance Door	W	
601	47 ft ²	2018 SEA Min - Fixed	W	
602	38 ft ²	2018 SEA Min - Entrance Door	W	
602	53 ft ²	2018 SEA Min - Fixed	W	
602	77 ft ²	2018 SEA Min - Fixed	N	
603	25 ft ²	2018 SEA Min - Entrance Door	E	
603	40 ft ²	2018 SEA Min - Fixed	E	
603	93 ft ²	2018 SEA Min - Fixed	N	
604	25 ft ²	2018 SEA Min - Entrance Door	E	
604	71 ft ²	2018 SEA Min - Fixed	E	
LOUNG 107 & 109	25 ft ²	2018 SEA Min - Entrance Door	E	
LOUNG 107 & 109	166 ft ²	2018 SEA Min - Fixed	E	

Room Information, Part 1

Values in italics have been changed from the default

Number	Name	Area	Ceiling Height	Ventilation				Infiltration				Cooling Temperature	Heating Temperature	Relative Humidity
				Cooling		Heating		Cooling		Heating				
01	Room ME	300 ft²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	10 CFM	Same as cooling	10 CFM	75° F	70° F	50%
02	Room ME	418 ft²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	14 CFM	Same as cooling	14 CFM	75° F	70° F	50%
101	Room ME	435 ft²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	15 CFM	Same as cooling	15 CFM	75° F	70° F	50%
102	Room ME	473 ft²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	16 CFM	Same as cooling	16 CFM	75° F	70° F	50%
201	Room ME	529 ft²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	18 CFM	Same as cooling	18 CFM	75° F	70° F	50%
202	Room ME	615 ft²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	21 CFM	Same as cooling	21 CFM	75° F	70° F	50%
203	Room ME	409 ft²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	14 CFM	Same as cooling	14 CFM	75° F	70° F	50%

Room Information, Part 1

Values in italics have been changed from the default

Number	Name	Area	Ceiling Height	Ventilation				Infiltration				Cooling Temperature	Heating Temperature	Relative Humidity
				Cooling		Heating		Cooling		Heating				
204	Room ME	359 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	12 CFM	Same as cooling	12 CFM	75° F	70° F	50%
301, 401, 501	Room ME	529 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	18 CFM	Same as cooling	18 CFM	75° F	70° F	50%
302, 402, 502	Room ME	615 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	21 CFM	Same as cooling	21 CFM	75° F	70° F	50%
303, 403, 503	Room ME	409 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	14 CFM	Same as cooling	14 CFM	75° F	70° F	50%
304, 404, 504	Room ME	359 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	12 CFM	Same as cooling	12 CFM	75° F	70° F	50%
601	Room ME	465 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	16 CFM	Same as cooling	16 CFM	75° F	70° F	50%
602	Room ME	541 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	19 CFM	Same as cooling	19 CFM	75° F	70° F	50%
603	Room ME	332 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	12 CFM	Same as cooling	12 CFM	75° F	70° F	50%
604	Room ME	325 ft ²	8'	Direct	50 CFM	Same as cooling	50 CFM	0.25 AC / hour	11 CFM	Same as cooling	11 CFM	75° F	70° F	50%
LOUNG 107 & 109	Main Entry Lobby	543 ft ²	8'	5 CFM / person 0.06 CFM / ft ²	28 CFM 33 CFM	Same as cooling Same as cooling	28 CFM 33 CFM	0.25 AC / hour	19 CFM	Same as cooling	19 CFM	75° F	70° F	50%

Room Information, Part 2

Values in italics have been changed from the default

Number	Lighting Load	Equipment Load			People			Glass Zone Type
		Sensible	Latent		Sensible btuh / Person	Latent btuh / Person		
01	0.8 watts / ft ² 819	1,710	0		2 people	250	200	C
02	0.8 watts / ft ² 1,140	1,710	0		2 people	250	200	C
101	0.8 watts / ft ² 1,190	1,710	0		2 people	250	200	C
102	0.8 watts / ft ² 1,290	1,710	0		2 people	250	200	C
201	0.8 watts / ft ² 1,440	1,710	0		2 people	250	200	C
202	0.8 watts / ft ² 1,680	1,710	0		2 people	250	200	C
203	0.8 watts / ft ² 1,120	1,710	0		2 people	250	200	C
204	0.8 watts / ft ² 980	1,710	0		2 people	250	200	C
301, 401, 501	0.8 watts / ft ² 1,440	1,710	0		2 people	250	200	C
302, 402, 502	0.8 watts / ft ² 1,680	1,710	0		2 people	250	200	C

Room Information, Part 2

Values in italics have been changed from the default

Number	Lighting Load	Equipment Load			People				Glass Zone Type	
		Sensible		Latent			Sensible btuh / Person	Latent btuh / Person		
303, 403, 503	0.8 watts / ft ²	1,120		1,710	0		2 people	250	200	C
304, 404, 504	0.8 watts / ft ²	980		1,710	0		2 people	250	200	C
601	0.8 watts / ft ²	1,270		1,710	0		2 people	250	200	C
602	0.8 watts / ft ²	1,480		1,710	0		2 people	250	200	C
603	0.8 watts / ft ²	907		1,710	0		2 people	250	200	C
604	0.8 watts / ft ²	887		1,710	0		2 people	250	200	C
LOUNG 107 & 109	1.2 watts / ft ²	2,220	2 watts / ft ²	3,710	0	100 ft ² / person	5.4 people	375	625	C

Supply Air Requirements

Location	Current Supply CFM	Required Supply CFM	Cooling							Heating				
			Peak	Supply Temperature	Sensible Load (btuh)	Supply CFM	OSA CFM	OSA %	Heating Temperature Difference	Load (btuh)	Supply CFM	OSA CFM	OSA %	
Room 01	0	333	July	5:00 p.m.		7,320	333	50	15%		1,740	81	50	62%
Room 02	0	360	July	5:00 p.m.		7,920	360	50	14%		3,590	166	50	30%
Room 101	0	377	July	5:00 p.m.		8,300	377	50	13%		3,880	180	50	28%
Room 102	0	366	July	5:00 p.m.		8,060	366	50	14%		3,970	184	50	27%
Room 201	0	458	July	5:00 p.m.		10,100	458	50	11%		5,120	237	50	21%
Room 202	0	528	July	5:00 p.m.		11,600	528	50	9%		6,380	295	50	17%
Room 203	0	413	July	9:00 a.m.		9,100	413	50	12%		5,300	246	50	20%
Room 204	0	284	July	8:00 a.m.		6,260	284	50	18%		3,270	152	50	33%
Room 301, 401, 501	0	458	July	5:00 p.m.		10,100	458	50	11%		5,120	237	50	21%
Room 302, 402, 502	0	528	July	5:00 p.m.		11,600	528	50	9%		6,380	295	50	17%
Room 303, 403, 503	0	413	July	9:00 a.m.		9,100	413	50	12%		5,300	246	50	20%
Room 304, 404, 504	0	284	July	8:00 a.m.		6,260	284	50	18%		3,270	152	50	33%
Room 601	0	426	July	5:00 p.m.		9,390	426	50	12%		4,680	217	50	23%
Room 602	0	526	July	5:00 p.m.		11,600	526	50	10%		5,940	275	50	18%

Supply Air Requirements														
Location	Current Supply CFM	Required Supply CFM	Cooling							Heating				
			Peak		Supply Temperature	Sensible Load (btuh)	Supply CFM	OSA CFM	OSA %	Heating Temperature Difference	Load (btuh)	Supply CFM	OSA CFM	OSA %
Room 603	0	360	July	9:00 a.m.		7,920	360	50	14%		5,220	242	50	21%
Room 604	0	408	July	8:00 a.m.		8,970	408	50	12%		3,960	183	50	27%
Room LOUNG 107 & 109	0	900	July	8:00 a.m.		19,800	900	61	7%		6,170	286	61	21%

Ventilation Schedule								
Location	Room Type	Ventilation Requirements	Area (ft ²)	People	Ventilation CFM	Supply CFM	Ventilation %	
Room 01	Room ME	Direct	300	2	50	333	15%	
Room 02	Room ME	Direct	418	2	50	360	14%	
Room 101	Room ME	Direct	435	2	50	377	13%	
Room 102	Room ME	Direct	473	2	50	366	14%	
Room 201	Room ME	Direct	529	2	50	458	11%	
Room 202	Room ME	Direct	615	2	50	528	9%	
Room 203	Room ME	Direct	409	2	50	413	12%	
Room 204	Room ME	Direct	359	2	50	284	18%	
Room 301, 401, 501	Room ME	Direct	529	2	50	458	11%	
Room 302, 402, 502	Room ME	Direct	615	2	50	528	9%	
Room 303, 403, 503	Room ME	Direct	409	2	50	413	12%	
Room 304, 404, 504	Room ME	Direct	359	2	50	284	18%	
Room 601	Room ME	Direct	465	2	50	426	12%	
Room 602	Room ME	Direct	541	2	50	526	10%	
Room 603	Room ME	Direct	332	2	50	360	14%	
Room 604	Room ME	Direct	325	2	50	408	12%	
Room LOUNG 107 & 109	Main Entry Lobby	5 CFM / person 0.06 CFM / ft ²	543	5.4	61	900	7%	

Cooling Load Details - System																	
(Btu/h / % Total)																	
(See "Cooling Load Details - Room" for lighting, equipment, and people loads)																	
Location	Peak		Roof		Wall		Glass		Ventilation				Infiltration				
									Sensible	Latent			Sensible	Latent			
Room 01	July	5:00 p.m.	0	0%	58	1%	4,170	51%	335	4%	132	2%	67	1%	26	0%	
Room 02	July	5:00 p.m.	0	0%	310	4%	4,170	47%	335	4%	132	1%	94	1%	37	0%	
Room 101	July	5:00 p.m.	0	0%	677	7%	4,130	45%	335	4%	132	1%	100	1%	40	0%	
Room 102	July	5:00 p.m.	0	0%	329	4%	4,130	46%	335	4%	132	1%	107	1%	42	0%	
Room 201	July	5:00 p.m.	0	0%	978	9%	5,340	49%	335	3%	132	1%	120	1%	47	0%	
Room 202	July	4:00 p.m.	0	0%	238	2%	7,280	58%	403	3%	132	1%	169	1%	55	0%	
Room 203	July	9:00 a.m.	0	0%	-19	0%	5,870	62%	-258	-3%	132	1%	-72	-1%	37	0%	
Room 204	July	9:00 a.m.	0	0%	-20	0%	3,150	48%	-258	-4%	132	2%	-62	-1%	32	0%	
Room 301, 401, 501	July	5:00 p.m.	0	0%	978	9%	5,340	49%	335	3%	132	1%	120	1%	47	0%	
Room 302, 402, 502	July	4:00 p.m.	0	0%	238	2%	7,280	58%	403	3%	132	1%	169	1%	55	0%	
Room 303, 403, 503	July	9:00 a.m.	0	0%	-19	0%	5,870	62%	-258	-3%	132	1%	-72	-1%	37	0%	
Room 304, 404, 504	July	9:00 a.m.	0	0%	-20	0%	3,150	48%	-258	-4%	132	2%	-62	-1%	32	0%	

Cooling Load Details - System

(Btu/h / % Total)

(See "Cooling Load Details - Room" for lighting, equipment, and people loads)

Location	Peak		Roof		Wall		Glass		Ventilation				Infiltration			
									Sensible		Latent		Sensible		Latent	
Room 601	July	5:00 p.m.	0	0%	897	9%	4,910	48%	335	3%	132	1%	107	1%	42	0%
Room 602	July	5:00 p.m.	0	0%	276	2%	7,490	60%	335	3%	132	1%	127	1%	50	0%
Room 603	July	9:00 a.m.	0	0%	-7	0%	4,880	59%	-258	-3%	132	2%	-62	-1%	32	0%
Room 604	July	9:00 a.m.	0	0%	-27	0%	5,890	64%	-258	-3%	132	1%	-57	-1%	29	0%
Room LOUNG 107 & 109	July	8:00 a.m.	0	0%	-49	0%	12,000	52%	-469	-2%	161	1%	-146	-1%	50	0%

Cooling Load Details - Room

(Btu/h / % of Total)

Location	Peak		Roof	Wall		Glass		Lighting		Equipment				People				Infiltration				
										Sensible		Latent		Sensible		Latent		Sensible		Latent		
Room 01	July	5:00 p.m.	0	0%	58	1%	4,170	54%	819	11%	1,710	22%	0	0%	500	6%	400	5%	67	1%	26	0%
Room 02	July	5:00 p.m.	0	0%	310	4%	4,170	50%	1,140	14%	1,710	20%	0	0%	500	6%	400	5%	94	1%	37	0%
Room 101	July	5:00 p.m.	0	0%	677	8%	4,130	47%	1,190	14%	1,710	20%	0	0%	500	6%	400	5%	100	1%	40	0%
Room 102	July	5:00 p.m.	0	0%	329	4%	4,130	49%	1,290	15%	1,710	20%	0	0%	500	6%	400	5%	107	1%	42	0%
Room 201	July	5:00 p.m.	0	0%	978	9%	5,340	51%	1,440	14%	1,710	16%	0	0%	500	5%	400	4%	120	1%	47	0%
Room 202	July	5:00 p.m.	0	0%	303	3%	7,290	60%	1,680	14%	1,710	14%	0	0%	500	4%	400	3%	141	1%	55	0%
Room 203	July	9:00 a.m.	0	0%	-19	0%	5,870	62%	1,120	12%	1,710	18%	0	0%	500	5%	400	4%	-72	-1%	37	0%
Room 204	July	8:00 a.m.	0	0%	-60	-1%	3,220	48%	980	15%	1,710	26%	0	0%	500	7%	400	6%	-92	-1%	32	0%
Room 301, 401, 501	July	5:00 p.m.	0	0%	978	9%	5,340	51%	1,440	14%	1,710	16%	0	0%	500	5%	400	4%	120	1%	47	0%
Room 302, 402, 502	July	5:00 p.m.	0	0%	303	3%	7,290	60%	1,680	14%	1,710	14%	0	0%	500	4%	400	3%	141	1%	55	0%
Room 303, 403, 503	July	9:00 a.m.	0	0%	-19	0%	5,870	62%	1,120	12%	1,710	18%	0	0%	500	5%	400	4%	-72	-1%	37	0%
Room 304, 404, 504	July	8:00 a.m.	0	0%	-60	-1%	3,220	48%	980	15%	1,710	26%	0	0%	500	7%	400	6%	-92	-1%	32	0%
Room 601	July	5:00 p.m.	0	0%	897	9%	4,910	50%	1,270	13%	1,710	17%	0	0%	500	5%	400	4%	107	1%	42	0%
Room 602	July	5:00 p.m.	0	0%	276	2%	7,490	62%	1,480	12%	1,710	14%	0	0%	500	4%	400	3%	127	1%	50	0%
Room 603	July	9:00 a.m.	0	0%	-7	0%	4,880	58%	907	11%	1,710	20%	0	0%	500	6%	400	5%	-62	-1%	32	0%
Room 604	July	8:00 a.m.	0	0%	-54	-1%	6,020	64%	887	9%	1,710	18%	0	0%	500	5%	400	4%	-85	-1%	29	0%
Room LOUNG 107 & 109	July	8:00 a.m.	0	0%	-49	0%	12,000	52%	2,220	10%	3,710	16%	0	0%	2,040	9%	3,390	15%	-146	-1%	50	0%

Heating Load Details - System and Room

(Btu/h / % of System Total)

Location	Roof		Wall		Glass		Slab		Ventilation		Infiltration	
Room 01	0	0%	93	2%	923	22%	242	6%	2,430	58%	486	12%
Room 02	0	0%	896	15%	923	15%	1,090	18%	2,430	40%	680	11%
Room 101	0	0%	907	14%	1,140	18%	1,100	17%	2,430	38%	729	12%
Room 102	0	0%	926	14%	1,140	18%	1,120	18%	2,430	38%	777	12%
Room 201	0	0%	1,280	17%	1,440	19%	1,530	20%	2,430	32%	875	12%
Room 202	0	0%	849	10%	3,160	36%	1,350	15%	2,430	28%	1,020	12%
Room 203	0	0%	886	11%	2,420	31%	1,320	17%	2,430	31%	680	9%
Room 204	0	0%	858	15%	800	14%	1,030	18%	2,430	43%	583	10%
Room 301, 401, 501	0	0%	1,280	17%	1,440	19%	1,530	20%	2,430	32%	875	12%
Room 302, 402, 502	0	0%	849	10%	3,160	36%	1,350	15%	2,430	28%	1,020	12%
Room 303, 403, 503	0	0%	886	11%	2,420	31%	1,320	17%	2,430	31%	680	9%
Room 304, 404, 504	0	0%	858	15%	800	14%	1,030	18%	2,430	43%	583	10%
Room 601	0	0%	1,180	17%	1,310	18%	1,410	20%	2,430	34%	777	11%
Room 602	0	0%	774	9%	3,020	36%	1,230	15%	2,430	29%	923	11%

Heating Load Details - System and Room

(Btu/h / % of System Total)

Location	Roof		Wall		Glass		Slab		Ventilation		Infiltration	
Room 603	0	0%	747	10%	2,710	35%	1,180	15%	2,430	32%	583	8%
Room 604	0	0%	695	11%	1,760	28%	969	15%	2,430	38%	534	8%
Room LOUNG 107 & 109	0	0%	805	9%	3,210	35%	1,230	13%	2,960	32%	923	10%

Load Total Summary - System

(Includes Ventilation and Plenum Loads)

Location	Area	Cooling											Heating			
		CFM	Peak	btuh			Tons			ft ² / ton	CFM / ton	CFM / ft ²	CFM	btuh	kW	CFM / ft ²
				Total	Sensible	Latent	Total	Sensible	Latent							
Room 01	300 ft ²	333	July 5:00 p.m.	8,220	7,660	558	0.7	0.6	0	438	486	1.11	81	4,170	1.2	0.27
Room 02	418 ft ²	360	July 5:00 p.m.	8,830	8,260	569	0.7	0.7	0	568	489	0.86	166	6,020	1.8	0.4
Room 101	435 ft ²	377	July 5:00 p.m.	9,210	8,640	571	0.8	0.7	0	567	491	0.87	180	6,310	1.9	0.41
Room 102	473 ft ²	366	July 5:00 p.m.	8,970	8,400	574	0.7	0.7	0	633	489	0.77	184	6,400	1.9	0.39
Room 201	529 ft ²	458	July 5:00 p.m.	11,000	10,400	579	0.9	0.9	0	577	500	0.87	237	7,550	2.2	0.45
Room 202	615 ft ²	528	July 4:00 p.m.	12,600	12,000	587	1.1	1	0	588	504	0.86	295	8,800	2.6	0.48
Room 203	409 ft ²	413	July 9:00 a.m.	9,410	8,850	569	0.8	0.7	0	522	526	1.01	246	7,730	2.3	0.6
Room 204	359 ft ²	284	July 9:00 a.m.	6,560	5,990	563	0.5	0.5	0	657	520	0.79	152	5,700	1.7	0.42
Room 301, 401, 501	529 ft ²	458	July 5:00 p.m.	11,000	10,400	579	0.9	0.9	0	577	500	0.87	237	7,550	2.2	0.45
Room 302, 402, 502	615 ft ²	528	July 4:00 p.m.	12,600	12,000	587	1.1	1	0	588	504	0.86	295	8,800	2.6	0.48
Room 303, 403, 503	409 ft ²	413	July 9:00 a.m.	9,410	8,850	569	0.8	0.7	0	522	526	1.01	246	7,730	2.3	0.6
Room 304, 404, 504	359 ft ²	284	July 9:00 a.m.	6,560	5,990	563	0.5	0.5	0	657	520	0.79	152	5,700	1.7	0.42
Room 601	465 ft ²	426	July 5:00 p.m.	10,300	9,720	574	0.9	0.8	0	542	497	0.92	217	7,110	2.1	0.47
Room 602	541 ft ²	526	July 5:00 p.m.	12,500	11,900	582	1	1	0	520	505	0.97	275	8,370	2.5	0.51
Room 603	332 ft ²	360	July 9:00 a.m.	8,230	7,670	563	0.7	0.6	0	484	525	1.08	242	7,640	2.2	0.73
Room 604	325 ft ²	408	July 9:00 a.m.	9,200	8,640	561	0.8	0.7	0	424	532	1.26	183	6,390	1.9	0.56
Room LOUNG 107 & 109	543 ft ²	900	July 8:00 a.m.	22,900	19,300	3,610	1.9	1.6	0.3	284	471	1.66	286	9,140	2.7	0.53

Load Total Summary - Room

(Excludes Ventilation and Plenum Loads)

Location	Area	Cooling	Heating
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			CFM	Peak	Load			Total Summary			Room	CFM / ton	CFM / ft²	CFM	btuh	kW	CFM / ft²
					Total	Sensible	Latent	Total	Sensible	Latent	ft² / ton	CFM / ton	CFM / ft²	CFM	btuh	kW	CFM / ft²
(Excludes Ventilation and Plenum Loads)																	
Location	Area	Cooling												Heating			
		CFM	Peak	btuh			Tons			ft² / ton	CFM / ton	CFM / ft²	CFM	btuh	kW	CFM / ft²	
				Total	Sensible	Latent	Total	Sensible	Latent								
Room 01	300 ft²	333	July	5:00 p.m.	7,750	7,320	426	0.6	0.6	0	464	516	1.11	81	1,740	0.5	0.27
Room 02	418 ft²	360	July	5:00 p.m.	8,360	7,920	437	0.7	0.7	0	599	517	0.86	166	3,590	1.1	0.4
Room 101	435 ft²	377	July	5:00 p.m.	8,740	8,300	440	0.7	0.7	0	598	517	0.87	180	3,880	1.1	0.41
Room 102	473 ft²	366	July	5:00 p.m.	8,510	8,060	442	0.7	0.7	0	668	516	0.77	184	3,970	1.2	0.39
Room 201	529 ft²	458	July	5:00 p.m.	10,500	10,100	447	0.9	0.8	0	602	522	0.87	237	5,120	1.5	0.45
Room 202	615 ft²	528	July	5:00 p.m.	12,100	11,600	455	1	1	0	611	524	0.86	295	6,380	1.9	0.48
Room 203	409 ft²	413	July	9:00 a.m.	9,540	9,100	437	0.8	0.8	0	515	519	1.01	246	5,300	1.6	0.6
Room 204	359 ft²	284	July	8:00 a.m.	6,690	6,260	432	0.6	0.5	0	644	510	0.79	152	3,270	1	0.42
Room 301, 401, 501	529 ft²	458	July	5:00 p.m.	10,500	10,100	447	0.9	0.8	0	602	522	0.87	237	5,120	1.5	0.45
Room 302, 402, 502	615 ft²	528	July	5:00 p.m.	12,100	11,600	455	1	1	0	611	524	0.86	295	6,380	1.9	0.48
Room 303, 403, 503	409 ft²	413	July	9:00 a.m.	9,540	9,100	437	0.8	0.8	0	515	519	1.01	246	5,300	1.6	0.6
Room 304, 404, 504	359 ft²	284	July	8:00 a.m.	6,690	6,260	432	0.6	0.5	0	644	510	0.79	152	3,270	1	0.42
Room 601	465 ft²	426	July	5:00 p.m.	9,830	9,390	442	0.8	0.8	0	567	520	0.92	217	4,680	1.4	0.47
Room 602	541 ft²	526	July	5:00 p.m.	12,000	11,600	450	1	1	0	540	525	0.97	275	5,940	1.7	0.51
Room 603	332 ft²	360	July	9:00 a.m.	8,360	7,920	432	0.7	0.7	0	477	517	1.08	242	5,220	1.5	0.73
Room 604	325 ft²	408	July	8:00 a.m.	9,400	8,970	429	0.8	0.7	0	415	521	1.26	183	3,960	1.2	0.56
Room LOUNG 107 & 109	543 ft²	900	July	8:00 a.m.	23,200	19,800	3,440	1.9	1.7	0.3	280	465	1.66	286	6,170	1.8	0.53