

*Fernanda Roca Residence
HVAC Load Calculations*

for

Fernanda Residence
13125 Sw 63rd Ave.
Pinecrest, Fl.



Prepared By:

Jmm Consulting Engineers Llc

Wednesday, November 6, 2024

Rhvac is an ACCA approved Manual J, D and S computer program.
Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.



Project Report

General Project Information

Project Title: Fernanda Roca Residence
Project Date: 9/10/24
Client Name: Fernanda Residence
Client Address: 13125 Sw 63rd Ave.
Client City: Pinecrest, Fl.
Company Name: Jmm Consulting Engineers Llc

Design Data

Reference City: Miami, Florida
Building Orientation: Front door faces West
Daily Temperature Range: Low
Latitude: 25 Degrees
Elevation: 7 ft.
Altitude Factor: 1.000

	Outdoor Dry Bulb	Outdoor Wet Bulb	Outdoor Rel.Hum	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	40	37.52	n/a	n/a	68	n/a
Summer:	92	78	54%	50%	70	68

Check Figures

Total Building Supply CFM:	7,190	CFM Per Square ft.:	1.069
Square ft. of Room Area:	6,724	Square ft. Per Ton:	408
Volume (ft³):	79,428		

Building Loads

Total Heating Required Including Ventilation Air:	83,376 Btuh	83.376 MBH
Total Sensible Gain:	158,146 Btuh	80 %
Total Latent Gain:	39,830 Btuh	20 %
Total Cooling Required Including Ventilation Air:	197,977 Btuh	16.50 Tons (Based On Sensible + Latent)

Notes

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All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.



Load Preview Report

Scope	Net Ton	ft. ² /Ton	Area	Sens Gain	Lat Gain	Net Gain	Sens Loss	Sys Htg CFM	Sys Clg CFM	Sys Act CFM	Duct Size
Building	16.50	408	6,724	158,146	39,830	197,977	83,376	1,083	7,190	7,190	
System 1	4.36	285	1,242	40,770	11,552	52,322	23,643	307	1,854	1,854	0"
Zone 1 - Clg.: 18%, Htg.: 24%			758	8,168	5,219	13,387	5,629	73	371	371	
1-Kitchen			758	8,168	5,219	13,387	5,629	73	371	371	0-0"
Zone 2 - Clg.: 82%, Htg.: 76%			484	37,692	6,334	44,025	18,015	234	1,714	1,714	
2-Living Rm			484	37,692	6,334	44,025	18,015	234	1,714	1,714	0-0"
System 2	3.50	369	1,290	32,972	9,002	41,974	17,958	233	1,499	1,499	0"
Zone 1 - Clg.: 48%, Htg.: 40%			438	17,822	2,634	20,455	7,191	93	810	810	
3-Entry Foyer			438	17,822	2,634	20,455	7,191	93	810	810	0-0"
Zone 2 - Clg.: 16%, Htg.: 26%			255	6,036	2,500	8,536	4,749	62	274	274	
4-Corridor			255	6,036	2,500	8,536	4,749	62	274	274	0-0"
Zone 3 - Clg.: 22%, Htg.: 18%			178	8,102	1,229	9,330	3,315	43	368	368	
5-Bar			178	8,102	1,229	9,330	3,315	43	368	368	0-0"
Zone 4 - Clg.: 13%, Htg.: 15%			419	4,903	2,640	7,543	2,703	35	223	223	
6-Theater			419	4,903	2,640	7,543	2,703	35	223	223	0-0"
System 3	3.11	475	1,478	31,013	6,334	37,346	14,580	189	1,410	1,410	0"
Zone 1 - Clg.: 42%, Htg.: 60%			1,056	14,187	4,834	19,020	8,708	113	645	645	
7-Master Bedroom			1,056	14,187	4,834	19,020	8,708	113	645	645	0-0"
Zone 2 - Clg.: 58%, Htg.: 40%			422	19,760	1,500	21,260	5,872	76	898	898	
8-2nd Floor Stairs / Corridor			422	19,760	1,500	21,260	5,872	76	898	898	0-0"
System 4	4.15	529	2,197	40,719	9,109	49,828	18,345	238	1,851	1,851	0"
Zone 1 - Clg.: 39%, Htg.: 36%			974	18,126	1,910	20,036	6,645	86	824	824	
9-2nd Floor Corridor / Game Rm			974	18,126	1,910	20,036	6,645	86	824	824	0-0"
Zone 2 - Clg.: 5%, Htg.: 12%			108	2,438	250	2,688	2,179	28	111	111	
10-Laundry Room			108	2,438	250	2,688	2,179	28	111	111	0-0"
Zone 3 - Clg.: 20%, Htg.: 17%			378	9,535	1,160	10,695	3,091	40	434	434	
11-Bedroom 1			378	9,535	1,160	10,695	3,091	40	434	434	0-0"
Zone 4 - Clg.: 20%, Htg.: 16%			378	9,405	1,160	10,565	2,878	37	428	428	
12-Bedroom 2			378	9,405	1,160	10,565	2,878	37	428	428	0-0"
Zone 5 - Clg.: 16%, Htg.: 19%			359	7,456	4,629	12,084	3,552	46	339	339	
13-Guest Bedroom			359	7,456	4,629	12,084	3,552	46	339	339	0-0"
System 5	1.38	376	517	12,673	3,834	16,506	8,850	115	576	576	0"
Zone 1			517	12,673	3,834	16,506	8,850	115	576	576	
14-Gym / Bath 113			517	12,673	3,834	16,506	8,850	115	576	576	0-0"
Sum of room airflows may be greater than system airflow because system has multiple zones.											



System 1 AHU-1 / CU-1 Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
New Material W: Glazing-Glassing, U-value 0.48, SHGC 0.27	985.5	13,244	0	24,765	24,765
13A-4ocs: Wall-Block, board insulation only, R-4 board insulation, open core, siding finish, U-value 0.143	1187.6	4,755	0	4,467	4,467
22A-pl: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, light dry soil, U-value 0.989	126	3,489	0	0	0
Subtotals for structure:		21,488	0	29,232	29,232
People:	4		820	980	1,800
Equipment:			7,500	7,500	15,000
Lighting:	400			1,364	1,364
Ductwork:		0	0	0	0
Infiltration: Winter CFM: 70, Summer CFM: 70		2,155	3,232	1,694	4,926
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 1 AHU-1 / CU-1 Load Totals:		23,643	11,552	40,770	52,322

Check Figures

Supply CFM:	1,854	CFM Per Square ft.:	1.492
Square ft. of Room Area:	1,242	Square ft. Per Ton:	285
Volume (ft³):	18,712		

System Loads

Total Heating Required Including Ventilation Air:	23,643 Btuh	23.643 MBH
Total Sensible Gain:	40,770 Btuh	78 %
Total Latent Gain:	11,552 Btuh	22 %
Total Cooling Required Including Ventilation Air:	52,322 Btuh	4.36 Tons (Based On Sensible + Latent)

Notes

Rhvac is an ACCA approved Manual J, D and S computer program.
Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.



System 2 AHU-2 / CU-2 Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
New Material W: Glazing-Glassing, U-value 0.48, SHGC 0.27	575	7,727	0	21,023	21,023
13A-4ocs: Wall-Block, board insulation only, R-4 board insulation, open core, siding finish, U-value 0.143	1175.6	4,707	0	4,422	4,422
22A-pl: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, light dry soil, U-value 0.989	155	4,292	0	0	0
Subtotals for structure:		16,726	0	25,445	25,445
People:	11		2,255	2,695	4,950
Equipment:			4,900	2,500	7,400
Lighting:	400			1,364	1,364
Ductwork:		0	0	0	0
Infiltration: Winter CFM: 40, Summer CFM: 40		1,232	1,847	968	2,815
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 2 AHU-2 / CU-2 Load Totals:		17,958	9,002	32,972	41,974

Check Figures

Supply CFM:	1,499	CFM Per Square ft.:	1.162
Square ft. of Room Area:	1,290	Square ft. Per Ton:	369
Volume (ft³):	14,604		

System Loads

Total Heating Required Including Ventilation Air:	17,958 Btuh	17.958 MBH
Total Sensible Gain:	32,972 Btuh	79 %
Total Latent Gain:	9,002 Btuh	21 %
Total Cooling Required Including Ventilation Air:	41,974 Btuh	3.50 Tons (Based On Sensible + Latent)

Notes

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System 3 AHU-3 / CU-3 Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
New Material W: Glazing-Glassing, U-value 0.48, SHGC 0.27	529.7	7,119	0	18,576	18,576
13A-4ocs: Wall-Block, board insulation only, R-4 board insulation, open core, siding finish, U-value 0.143	770.3	3,084	0	2,896	2,896
16B-30-ml: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), vented attic, no radiant barrier, R-30 insulation, light metal, U-value 0.032	1478	1,324	0	2,885	2,885
22A-pl: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, light dry soil, U-value 0.989	88	2,437	0	0	0
Subtotals for structure:		13,964	0	24,357	24,357
People:	2		410	490	900
Equipment:			5,000	5,000	10,000
Lighting:	200			682	682
Ductwork:		0	0	0	0
Infiltration: Winter CFM: 20, Summer CFM: 20		616	924	484	1,407
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 3 AHU-3 / CU-3 Load Totals:		14,580	6,334	31,013	37,346

Check Figures

Supply CFM:	1,410	CFM Per Square ft.:	0.954
Square ft. of Room Area:	1,478	Square ft. Per Ton:	475
Volume (ft³):	16,258		

System Loads

Total Heating Required Including Ventilation Air:	14,580 Btuh	14.580 MBH
Total Sensible Gain:	31,013 Btuh	83 %
Total Latent Gain:	6,334 Btuh	17 %
Total Cooling Required Including Ventilation Air:	37,346 Btuh	3.11 Tons (Based On Sensible + Latent)

Notes

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Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.



System 4 AHU-4 / CU-4 Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
New Material W: Glazing-Glassing, U-value 0.48, SHGC 0.27	548.7	7,375	0	18,544	18,544
13A-4ocs: Wall-Block, board insulation only, R-4 board insulation, open core, siding finish, U-value 0.143	1248.3	4,998	0	4,696	4,696
16B-30-ml: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), vented attic, no radiant barrier, R-30 insulation, light metal, U-value 0.032	2197	1,970	0	4,289	4,289
20P-19: Floor-Over open crawl space or garage, Passive, R-19 blanket insulation, any cover, U-value 0.05	915	1,281	0	961	961
22A-pl: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, light dry soil, U-value 0.989	76	2,105	0	0	0
Subtotals for structure:		17,729	0	28,490	28,490
People:	7		1,435	1,715	3,150
Equipment:			6,750	5,500	12,250
Lighting:	450			1,535	1,535
Ductwork:		0	0	0	0
Infiltration: Winter CFM: 20, Summer CFM: 20		616	924	484	1,407
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
AED Excursion:		0	0	2,996	2,996
System 4 AHU-4 / CU-4 Load Totals:		18,345	9,109	40,719	49,828

Check Figures

Supply CFM:	1,851	CFM Per Square ft.:	0.843
Square ft. of Room Area:	2,197	Square ft. Per Ton:	529
Volume (ft³):	24,167		

System Loads

Total Heating Required Including Ventilation Air:	18,345 Btuh	18.345 MBH
Total Sensible Gain:	40,719 Btuh	82 %
Total Latent Gain:	9,109 Btuh	18 %
Total Cooling Required Including Ventilation Air:	49,828 Btuh	4.15 Tons (Based On Sensible + Latent)

Notes

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All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.



System 5 AHU-5 / CU-5 Summary Loads

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
New Material W: Glazing-Glassing, U-value 0.48, SHGC 0.27	184.8	2,483	0	3,514	3,514
13A-4ocs: Wall-Block, board insulation only, R-4 board insulation, open core, siding finish, U-value 0.143	705.2	2,823	0	2,653	2,653
16B-30-ml: Roof/Ceiling-Under Attic with Insulation on Attic Floor (also use for Knee Walls and Partition Ceilings), vented attic, no radiant barrier, R-30 insulation, light metal, U-value 0.032	517	463	0	1,009	1,009
22A-pl: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, light dry soil, U-value 0.989	89	2,465	0	0	0
Subtotals for structure:		8,234	0	7,176	7,176
People:	2		410	490	900
Equipment:			2,500	3,500	6,000
Lighting:	300			1,023	1,023
Ductwork:		0	0	0	0
Infiltration: Winter CFM: 50, Summer CFM: 50		616	924	484	1,407
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
System 5 AHU-5 / CU-5 Load Totals:		8,850	3,834	12,673	16,506

Check Figures

Supply CFM:	576	CFM Per Square ft.:	1.114
Square ft. of Room Area:	517	Square ft. Per Ton:	376
Volume (ft³):	5,687		

System Loads

Total Heating Required Including Ventilation Air:	8,850 Btuh	8.850 MBH
Total Sensible Gain:	12,673 Btuh	77 %
Total Latent Gain:	3,834 Btuh	23 %
Total Cooling Required Including Ventilation Air:	16,506 Btuh	1.38 Tons (Based On Sensible + Latent)

Notes

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Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.



System 1 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min Clg CFM	Act Sys CFM
---Zone 1---										
1	Kitchen	758	5,629	73	0-0	0	8,168	5,219	371	371
	Zone 1 subtotal	758	5,629	73			8,168	5,219	371	371
---Zone 2---										
2	Living Rm	484	18,015	234	0-0	0	37,692	6,334	1,714	1,714
	Zone 2 subtotal	484	18,015	234			37,692	6,334	1,714	1,714
	System 1 total	1,242	23,643	307			40,770	11,552	1,854	1,854

Note: Since the system is multizone, the Peak Fenestration Gain Procedure was used to determine glass sensible gains at the room and zone levels, so the sums of the zone sensible gains and airflows for cooling shown above are not intended to equal the totals at the system level. Room and zone sensible gains and cooling CFM values are for the hour in which the glass sensible gain for the zone is at its peak. Sensible gains at the system level are based on the "Average Load Procedure + Excursion" method.

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	4.36	78% / 22%	40,770	11,552	52,322

Equipment Data

	Heating System	Cooling System
Type:	Electric Resistance	Standard Air Conditioner
Model:		
Indoor Model:		
Brand:		
Efficiency:	0%	0 SEER
Sound:	0	0
Capacity:	0 Btuh	0 Btuh
Sensible Capacity:	n/a	0 Btuh
Latent Capacity:	n/a	0 Btuh



System 2 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min Clg CFM	Act Sys CFM
---Zone 1---										
3	Entry Foyer	438	7,191	93	0-0	0	17,822	2,634	810	810
	Zone 1 subtotal	438	7,191	93			17,822	2,634	810	810
---Zone 2---										
4	Corridor	255	4,749	62	0-0	0	6,036	2,500	274	274
	Zone 2 subtotal	255	4,749	62			6,036	2,500	274	274
---Zone 3---										
5	Bar	178	3,315	43	0-0	0	8,102	1,229	368	368
	Zone 3 subtotal	178	3,315	43			8,102	1,229	368	368
---Zone 4---										
6	Theater	419	2,703	35	0-0	0	4,903	2,640	223	223
	Zone 4 subtotal	419	2,703	35			4,903	2,640	223	223
	System 2 total	1,290	17,958	233			32,972	9,002	1,499	1,499

Note: Since the system is multizone, the Peak Fenestration Gain Procedure was used to determine glass sensible gains at the room and zone levels, so the sums of the zone sensible gains and airflows for cooling shown above are not intended to equal the totals at the system level. Room and zone sensible gains and cooling CFM values are for the hour in which the glass sensible gain for the zone is at its peak. Sensible gains at the system level are based on the "Average Load Procedure + Excursion" method.

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	3.50	79% / 21%	32,972	9,002	41,974

Equipment Data

	Heating System	Cooling System
Type:	Electric Resistance	Standard Air Conditioner
Model:		
Indoor Model:		
Brand:		
Efficiency:	0%	0 SEER
Sound:	0	0
Capacity:	0 Btuh	0 Btuh
Sensible Capacity:	n/a	0 Btuh
Latent Capacity:	n/a	0 Btuh



System 3 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min Clg CFM	Act Sys CFM
---Zone 1---										
7	Master Bedroom	1,056	8,708	113	0-0	0	14,187	4,834	645	645
	Zone 1 subtotal	1,056	8,708	113			14,187	4,834	645	645
---Zone 2---										
8	2nd Floor Stairs / Corridor	422	5,872	76	0-0	0	19,760	1,500	898	898
	Zone 2 subtotal	422	5,872	76			19,760	1,500	898	898
	System 3 total	1,478	14,580	189			31,013	6,334	1,410	1,410

Note: Since the system is multizone, the Peak Fenestration Gain Procedure was used to determine glass sensible gains at the room and zone levels, so the sums of the zone sensible gains and airflows for cooling shown above are not intended to equal the totals at the system level. Room and zone sensible gains and cooling CFM values are for the hour in which the glass sensible gain for the zone is at its peak. Sensible gains at the system level are based on the "Average Load Procedure + Excursion" method.

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	3.11	83% / 17%	31,013	6,334	37,346

Equipment Data

	Heating System	Cooling System
Type:	Electric Resistance	Standard Air Conditioner
Model:		
Indoor Model:		
Brand:		
Efficiency:	0%	0 SEER
Sound:	0	0
Capacity:	0 Btuh	0 Btuh
Sensible Capacity:	n/a	0 Btuh
Latent Capacity:	n/a	0 Btuh



System 4 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min Clg CFM	Act Sys CFM
---Zone 1---										
9	2nd Floor Corridor / Game Rm	974	6,645	86	0-0	0	18,126	1,910	824	824
	Zone 1 subtotal	974	6,645	86			18,126	1,910	824	824
---Zone 2---										
10	Laundry Room	108	2,179	28	0-0	0	2,438	250	111	111
	Zone 2 subtotal	108	2,179	28			2,438	250	111	111
---Zone 3---										
11	Bedroom 1	378	3,091	40	0-0	0	9,535	1,160	434	434
	Zone 3 subtotal	378	3,091	40			9,535	1,160	434	434
---Zone 4---										
12	Bedroom 2	378	2,878	37	0-0	0	9,405	1,160	428	428
	Zone 4 subtotal	378	2,878	37			9,405	1,160	428	428
---Zone 5---										
13	Guest Bedroom	359	3,552	46	0-0	0	7,456	4,629	339	339
	Zone 5 subtotal	359	3,552	46			7,456	4,629	339	339
	System 4 total	2,197	18,345	238			40,719	9,109	1,851	1,851

Note: Since the system is multizone, the Peak Fenestration Gain Procedure was used to determine glass sensible gains at the room and zone levels, so the sums of the zone sensible gains and airflows for cooling shown above are not intended to equal the totals at the system level. Room and zone sensible gains and cooling CFM values are for the hour in which the glass sensible gain for the zone is at its peak. Sensible gains at the system level are based on the "Average Load Procedure + Excursion" method.

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	4.15	82% / 18%	40,719	9,109	49,828

Equipment Data

	Heating System	Cooling System
Type:	Electric Resistance	Standard Air Conditioner
Model:		
Indoor Model:		
Brand:		
Efficiency:	0%	0 SEER
Sound:	0	0
Capacity:	0 Btuh	0 Btuh
Sensible Capacity:	n/a	0 Btuh
Latent Capacity:	n/a	0 Btuh



System 5 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Min Htg CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Min Clg CFM	Act Sys CFM
---Zone 1---										
14	Gym / Bath 113	517	8,850	115	0-0	0	12,673	3,834	576	576
System 5 total		517	8,850	115			12,673	3,834	576	576

Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.38	77% / 23%	12,673	3,834	16,506

Equipment Data

	<u>Heating System</u>	<u>Cooling System</u>
Type:	Electric Resistance	Standard Air Conditioner
Model:		
Indoor Model:		
Brand:		
Efficiency:	0%	0 SEER
Sound:	0	0
Capacity:	0 Btuh	0 Btuh
Sensible Capacity:	n/a	0 Btuh
Latent Capacity:	n/a	0 Btuh