



Load Short Form
Main Living AC 1
WebREPS, LLC

Job: Columbia County
 Date: July 13th. 2021
 By: Kenneth D. Puzinas
 Plan: Williams Residence

1880 82nd Avenue Suite # 203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com Web: www.acductdesign.com License: CAC054709

Project Information

For: Rick Tyre, Glenn I. Jones Inc
 703 S. E. Nassau Street, Lake City, FL 32025
 Phone: 386-688-2931 Fax: N/A
 Email: rick@gijinc.com

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	34	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-tight
Design TD (°F)	36	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	42		

HEATING EQUIPMENT

Make Daikin
 Trade DAIKIN
 Model DZ14SA0421K
 AHRI ref 8245390

Efficiency 8.5 HSPF
 Heating input
 Heating output 39000 Btuh @ 47°F
 Temperature rise 27 °F
 Actual air flow 1333 cfm
 Air flow factor 0.042 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat
 Capacity balance point = 35 °F

Backup:

Input = 0 kW, Output = 0 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Daikin
 Trade DAIKIN
 Model DZ14SA0421K
 AHRI ref ASPT49D14A
 8245390

Efficiency 12.5 EER, 15 SEER
 Sensible cooling 28400 Btuh
 Latent cooling 11600 Btuh
 Total cooling 40000 Btuh
 Actual air flow 1333 cfm
 Air flow factor 0.055 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.71

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
main	1695	23300	22084	986	1221
Room1	285	8217	2026	348	112
Main Living AC 1	1979	31518	24111	1333	1333
Other equip loads		7590	3188		
Equip. @ 1.00 RSM			27298		
Latent cooling			11043		
TOTALS	1979	39108	38342	1333	1333

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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Load Short Form
Mster Suite AC2
WebREPS, LLC

Job: Columbia County
Date: July 13th. 2021
By: Kenneth D. Puzinas
Plan: Williams Residence

1880 82nd Avenue Suite # 203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com Web: www.acductdesign.com License: CAC054709

Project Information

For: Rick Tyre, Glenn I. Jones Inc
703 S. E. Nassau Street, Lake City, FL 32025
Phone: 386-688-2931 Fax: N/A
Email: rick@gijinc.com

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	34	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-tight
Design TD (°F)	36	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	42		

HEATING EQUIPMENT

Make Daikin
Trade DAIKIN
Model RX24RMVJU
AHRI ref 201851574

Efficiency 10 HSPF
Heating input
Heating output 24000 Btuh @ 47°F
Temperature rise 30 °F
Actual air flow 727 cfm
Air flow factor 0.061 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 23 °F

Backup:

Input = 3 kW, Output = 10914 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Daikin
Trade DAIKIN
Cond RX24RMVJU
Coil FDMQ24RVJU
AHRI ref 201851574
Efficiency 18.6 EER, 12.5 SEER
Sensible cooling 15478 Btuh
Latent cooling 6322 Btuh
Total cooling 21800 Btuh
Actual air flow 727 cfm
Air flow factor 0.070 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.71

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
master	680	11895	10453	727	727
Mster Suite AC2	680	11895	10453	727	727
Other equip loads		3894	2483		
Equip. @ 1.00 RSM			12936		
Latent cooling			5289		
TOTALS	680	15789	18225	727	727

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Component Constructions
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For: Rick Tyre, Glenn I. Jones Inc
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 Phone: 386-688-2931 Fax: N/A
 Email: rick@gijinc.com

Design Conditions

Location:		Indoor:		Heating	Cooling
Suwannee, FL, US		Indoor temperature (°F)		70	75
Elevation: 89 ft		Design TD (°F)		36	17
Latitude: 29°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		32.1	42.4
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	34	92	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Semi-tight	
Wet bulb (°F)	-	75	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btu/h/ft²·°F	Insul R ft²·°F/Btu	Htg HTM Btu/h/ft²	Loss Btu/h	Cig HTM Btu/h/ft²	Gain Btu/h
Walls								
12E-0sw. Frm wall, wd ext, 1/2" wood shth, r-19 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	118	0.068	19.0	2.47	290	1.35	158
	e	235	0.068	19.0	2.47	580	1.35	316
	s	118	0.068	19.0	2.47	290	1.35	158
	all	470	0.068	19.0	2.47	1160	1.35	633
13CA-0fcw. Blk wall, 2"x4" wood int frm, 8" thk, r-13 cav ins, perlite core, 1/2" gypsum board int fnsh	n	383	0.082	17.8	2.98	1140	1.18	452
	e	251	0.082	17.8	2.98	746	1.18	296
	s	73	0.082	17.8	2.98	217	1.18	86
	w	407	0.082	17.8	2.98	1213	1.18	481
	all	1114	0.082	17.8	2.98	3316	1.18	1315
Partitions								
12C-0sw. Frm wall, 5/8" gyp.bd ext, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud		243	0.091	13.0	3.30	801	1.27	309
12C-0sw. Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud		157	0.091	13.0	3.30	517	1.27	199
Windows								
2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (3.2 ft window ht, 1 ft sep.); 7.67 ft head ht	n	15	0.400	0	14.5	225	9.28	144
	e	7	0.400	0	14.5	108	23.6	176
	w	30	0.400	0	14.5	434	23.6	705
	all	53	0.400	0	14.5	767	19.4	1025
2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (4.2 ft window ht, 1 ft sep.); 7.67 ft head ht	n	14	0.400	0	14.5	203	9.28	130
2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (6 ft window ht, 1 ft sep.); 7.67 ft head ht	e	25	0.400	0	14.5	363	23.6	590
	s	20	0.400	0	14.5	283	9.64	188
	all	45	0.400	0	14.5	646	17.5	778



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2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (7 ft window ht, 1 ft sep.); 7.67 ft head ht	e	42	0.400	0	14.5	610	22.5	943
10D-m: 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (7 ft window ht, 1 ft sep.); 7.67 ft head ht	w	21	0.300	0	10.9	229	15.5	325
	w	18	0.400	0	14.5	254	23.6	413
	all	39	0.400	0	12.5	483	19.2	738
2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (5.3 ft window ht, 1 ft sep.); 7.67 ft head ht	w	52	0.400	0	14.5	750	23.6	1220
Doors								
11D0: Door, wd sc type	n	21	0.390	0	14.2	297	11.3	237
Ceilings								
16X19-0ad: Attic ceiling, asphalt shingles roof mat, r-20 roof ins, 1/2" gypsum board int fnsh		285	0.408	19.0	2.05	586	1.50	426
16X30-0ad: Attic ceiling, asphalt shingles roof mat, r-28 roof ins, 1/2" gypsum board int fnsh		1695	0.408	30.0	1.53	2588	1.05	1771
Floors								
22A-tp: Bg floor, heavy damp soil, on grade depth, carp 80% flr fnsh		225	1.358	0	49.3	11079	0	0



Component Constructions
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Project Information

For: Rick Tyre, Glenn I. Jones Inc
 703 S. E. Nassau Street, Lake City, FL 32025
 Phone: 386-688-2931 Fax: N/A
 Email: rick@gijinc.com

Design Conditions

Location:		Indoor:		Heating	Cooling
Suwannee, FL, US		Indoor temperature (°F)		70	75
Elevation: 89 ft		Design TD (°F)		36	17
Latitude: 29°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		32.1	42.4
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	34	92	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Semi-tight	
Wet bulb (°F)	-	75	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btu/h/ft²·°F	Insul R ft²·°F/Btu/h	Htg HTM Btu/h/ft²	Loss Btu/h	Clg HTM Btu/h/ft²	Gain Btu/h
Walls								
13CB-Ofcws: Blk wall, stucco ext, 2"x4" wood int frm, 8" thk, r-13 cav ins, perlite core, 1/2" gypsum board int fnsh	n	118	0.073	17.8	2.65	311	1.05	124
	e	127	0.073	17.8	2.65	337	1.05	134
	s	405	0.073	17.8	2.65	1074	1.05	426
	w	98	0.073	17.8	2.65	260	1.05	103
	all	748	0.073	17.8	2.65	1981	1.05	786

Partitions

(none)

Windows

2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (4.2 ft window ht, 1 ft sep.); 7.67 ft head ht	s	13	0.400	0	14.5	193	9.28	123
2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (6 ft window ht, 1 ft sep.); 7.67 ft head ht	e	38	0.400	0	14.5	552	23.6	897
	s	19	0.400	0	14.5	276	9.64	183
	all	57	0.400	0	14.5	828	18.9	1080
2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, mtl no brk frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 50% blinds 45°, light; 50% outdoor insect screen; 1 ft overhang (5.3 ft window ht, 1 ft sep.); 7.67 ft head ht	w	34	0.400	0	14.5	500	23.6	813

Doors

(none)

Ceilings

16X30-0ad: Attic ceiling, asphalt shingles roof mat, r-28 roof ins, 1/2" gypsum board int fnsh		680	0.408	30.0	1.53	1039	1.05	711
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Floors						
22A-tpb: Bg floor, heavy damp soil, on grade depth, carp 80% flr fnsh	85	1.358	0	49.3	4202	0 0



Project Summary

Main Living AC 1

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Project Information

For: Rick Tyre, Glenn I. Jones Inc
703 S. E. Nassau Street, Lake City, FL 32025
Phone: 386-688-2931 Fax: N/A
Email: rick@gijinc.com
Notes: Williams Residence, Columbia County, FL 32060

Design Information

Weather: Suwannee, FL, US

Winter Design Conditions

Outside db 34 °F
Inside db 70 °F
Design TD 36 °F

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 17 °F
Daily range M
Relative humidity 50 %
Moisture difference 42 gr/lb

Heating Summary

Structure 26449 Btuh
Ducts 5068 Btuh
Central vent (82 cfm) 3259 Btuh
Outside air
Humidification 4331 Btuh
Piping 0 Btuh
Equipment load 39108 Btuh

Sensible Cooling Equipment Load Sizing

Structure 20756 Btuh
Ducts 3354 Btuh
Central vent (82 cfm) 1481 Btuh
Outside air
Blower 1707 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 27298 Btuh

Infiltration

Method Simplified
Construction quality Semi-tight
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 6550 Btuh
Ducts 2137 Btuh
Central vent (82 cfm) 2356 Btuh
Outside air
Equipment latent load 11043 Btuh
Equipment Total Load (Sen+Lat) 38342 Btuh
Req. total capacity at 0.71 SHR 3.2 ton

	Heating	Cooling
Area (ft²)	1979	1979
Volume (ft³)	19794	19794
Air changes/hour	0.20	0.10
Equiv. AVF (cfm)	67	33

Heating Equipment Summary

Make Daikin
Trade DAIKIN
Model DZ14SA0421K
AHRI ref 8245390
Efficiency 8.5 HSPF
Heating input 39000 Btuh @ 47°F
Heating output 27 °F
Temperature rise 1333 cfm
Actual air flow 0.042 cfm/Btuh
Air flow factor 0 in H2O
Static pressure
Space thermostat
Capacity balance point = 35 °F

Cooling Equipment Summary

Make Daikin
Trade DAIKIN
Cond DZ14SA0421K
Coil ASPT49D14A
AHRI ref 8245390
Efficiency 12.5 EER, 15 SEER
Sensible cooling 28400 Btuh
Latent cooling 11600 Btuh
Total cooling 40000 Btuh
Actual air flow 1333 cfm
Air flow factor 0.055 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.71

Backup:
Input = 0 kW, Output = 0 Btuh, 100 AFUE

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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Project Summary

Mster Suite AC2

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Email: rick@gijinc.com
Notes: Williams Residence, Columbia County, FL 32060

Design Information

Weather: Suwannee, FL, US

Winter Design Conditions

Outside db 34 °F
Inside db 70 °F
Design TD 36 °F

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 17 °F
Daily range M
Relative humidity 50 %
Moisture difference 42 gr/lb

Heating Summary

Structure 9978 Btuh
Ducts 1916 Btuh
Central vent (43 cfm) 1708 Btuh
Outside air
Humidification 2186 Btuh
Piping 0 Btuh
Equipment load 15789 Btuh

Sensible Cooling Equipment Load Sizing

Structure 9184 Btuh
Ducts 1269 Btuh
Central vent (43 cfm) 776 Btuh
Outside air
Blower 1707 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 12936 Btuh

Infiltration

Method Simplified
Construction quality Semi-tight
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 3236 Btuh
Ducts 819 Btuh
Central vent (43 cfm) 1234 Btuh
Outside air
Equipment latent load 5289 Btuh
Equipment Total Load (Sen+Lat) 18225 Btuh
Req. total capacity at 0.71 SHR 1.5 ton

	Heating	Cooling
Area (ft²)	680	680
Volume (ft³)	6803	6803
Air changes/hour	0.27	0.14
Equiv. AVF (cfm)	31	16

Heating Equipment Summary

Make Daikin
Trade DAIKIN
Model RX24RMVJU
AHRI ref 201851574
Efficiency 10 HSPF
Heating input 24000 Btuh @ 47°F
Heating output 30 °F
Temperature rise 727 cfm
Actual air flow 0.061 cfm/Btuh
Air flow factor 0 in H2O
Static pressure
Space thermostat
Capacity balance point = 23 °F
Backup:
Input = 3 kW, Output = 10914 Btuh, 100 AFUE

Cooling Equipment Summary

Make Daikin
Trade DAIKIN
Cond RX24RMVJU
Coil FDMQ24RVJU
AHRI ref 201851574
Efficiency 18.6 EER, 12.5 SEER
Sensible cooling 15478 Btuh
Latent cooling 6322 Btuh
Total cooling 21800 Btuh
Actual air flow 727 cfm
Air flow factor 0.070 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.71

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Loads for Multiple Orientations

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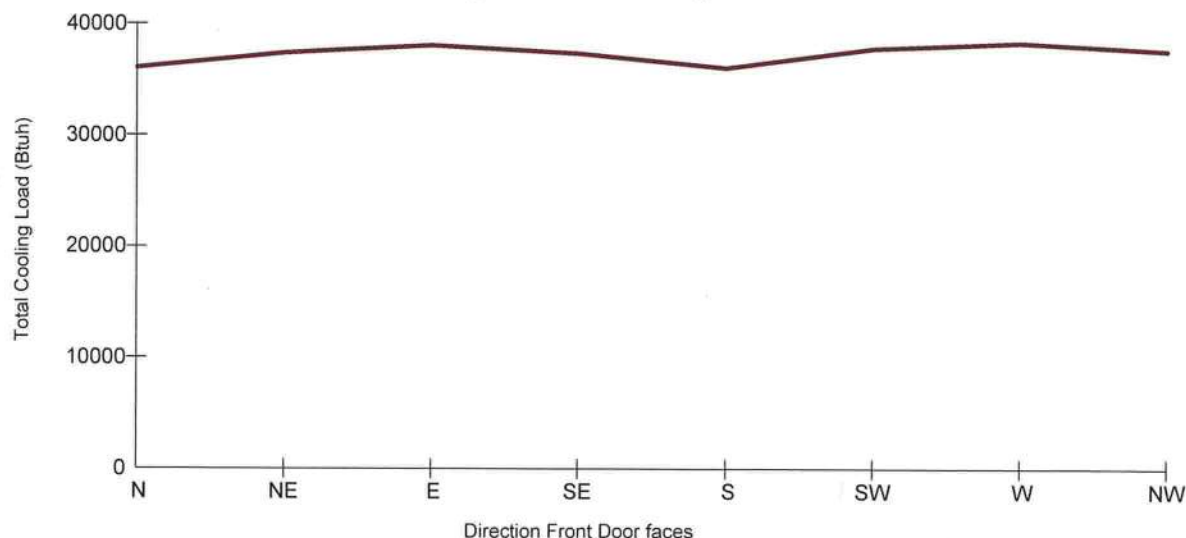
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Email: rick@gijinc.com

Design Conditions

Location:		Indoor:		Heating	Cooling
Suwannee, FL, US		Indoor temperature (°F)		70	75
Elevation: 89 ft		Design TD (°F)		36	17
Latitude: 29°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		32.1	42.4
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	34	92			
Daily range (°F)	-	18 (M)			
Wet bulb (°F)	-	75			
Wind speed (mph)	15.0	7.5			

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	25026	26346	27012	26305	25023	26794	27298	26595
Latent Load (Btuh)	11043	11043	11043	11043	11043	11043	11043	11043
Total Load (Btuh)	36069	37389	38055	37348	36067	37837	38342	37638
Heating AVF (cfm)	1333	1333	1333	1333	1333	1333	1333	1333
Cooling AVF (cfm)	1333	1333	1333	1333	1333	1333	1333	1333

Building Orientation Cooling Load



Current Orientation: Front Door faces West
Highest Cooling Load: Front Door faces West

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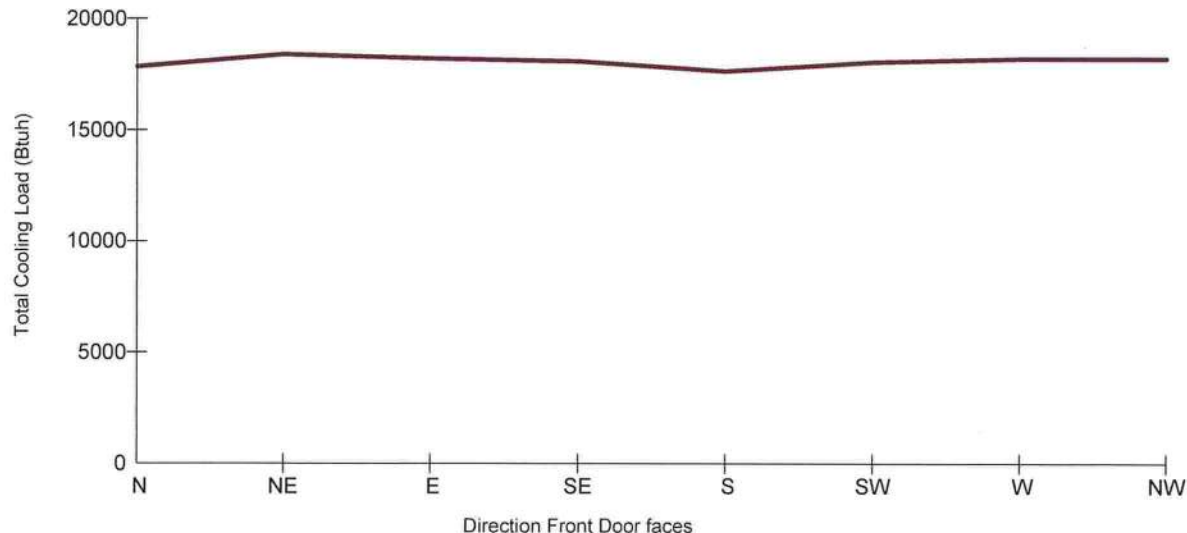
For: Rick Tyre, Glenn I. Jones Inc
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Email: rick@gijinc.com

Design Conditions

Location:			Indoor:		Heating	Cooling
Suwannee, FL, US			Indoor temperature (°F)		70	75
Elevation: 89 ft			Design TD (°F)		36	17
Latitude: 29°N			Relative humidity (%)		50	50
			Moisture difference (gr/lb)		32.1	42.4
Outdoor:	Heating	Cooling	Infiltration:			
Dry bulb (°F)	34	92				
Daily range (°F)	-	18 (M)				
Wet bulb (°F)	-	75				
Wind speed (mph)	15.0	7.5				

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	12563	13122	12929	12800	12362	12783	12936	12930
Latent Load (Btuh)	5289	5289	5289	5289	5289	5289	5289	5289
Total Load (Btuh)	17852	18411	18218	18089	17651	18072	18225	18219
Heating AVF (cfm)	727	727	727	727	727	727	727	727
Cooling AVF (cfm)	727	727	727	727	727	727	727	727

Building Orientation Cooling Load



Current Orientation: Front Door faces West
Highest Cooling Load: Front Door faces Northeast

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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... Inc Williams Residence, Columbia County 2a.rup Calc = MJ8 Front Door faces: W