

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mervin & Kathleen Dale
3645 SW Herlong Street
Ft Shite, FL 32038

Project Title:
211063 Dale Res
Building Type: User

2021-09-27

Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.231)	6377 Btuh
All Zones	Sensible Subtotal All Zones	33951 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	33951 Btuh 0 Btuh 33951 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	37000 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Mervin & Kathleen Dale
3645 SW Herlong Street
Ft Shite, FL 32038

Project Title:
211063 Dale Res

2021-09-27

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%)

Humidity difference: 51gr.

Component Loads for Whole House

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mervin & Kathleen Dale
3645 SW Herlong Street
Ft Shite, FL 32038

Project Title:
211063 Dale Res

Climate:FL_GAINESVILLE_REGIONAL_A

2021-09-27

Infiltration	Type Natural	Average ACH 0.17	Volume(cuft) 23652	Wall Ratio 1	CFM= 68.0	Load 1415 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230	Appliance +	3400	Load 4780 Btuh
					Sensible Envelope Load:	19157 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.334)	6407 Btuh
					Sensible Load All Zones	25564 Btuh

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Residential Load - Component Details (continued)

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Ft Shite, FL 32038

Project Title:
211063 Dale Res

Climate:FL_GAINESVILLE_REGIONAL_A

2021-09-27

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	19157 Btuh
	Sensible Duct Load	6407 Btuh
	Total Sensible Zone Loads	25564 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	25564 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	2347 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1556 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5104 Btuh
	TOTAL GAIN	30668 Btuh

EQUIPMENT

1. Central Unit	#	37000 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value)

(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(½))

(Ornt - compass orientation)



Version 8