

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Tom Murphey  
185 NW Harwell Ct.  
Lake City, FL 32055

Project Title:  
Norris - Murphey Addition  
Building Type: User

12/16/2024

### EQUIPMENT

1. Electric Heat Pump	#	36000 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

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Tom Murphey  
185 NW Harwell Ct.  
Lake City, FL 32055

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A  
Norris - Murphey Addition

12/16/2024

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>2077 Btuh</b>
	Sensible Duct Load	948 Btuh
	<b>Total Sensible Zone Loads</b>	<b>3025 Btuh</b>
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>3025 Btuh</b>
	Latent infiltration gain (for 47 gr. humidity difference)	166 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	195 Btuh
	Latent occupant gain (1.0 people @ 200 Btuh per person)	200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>561 Btuh</b>
	<b>TOTAL GAIN</b>	<b>3586 Btuh</b>

### EQUIPMENT

1. Central Unit	#	36000 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)



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