

Project Information

For: **Fredericksburg, TX 78624**

Notes:

Design Information

Weather: **San Antonio Intl AP, TX, US**

Winter Design Conditions

Outside db	32 °F
Inside db	70 °F
Design TD	38 °F

Summer Design Conditions

Outside db	97 °F
Inside db	75 °F
Design TD	22 °F
Daily range	M
Relative humidity	50 %
Moisture difference	25 gr/lb

Heating Summary

Structure	25319 Btuh
Ducts	3507 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	28826 Btuh

Sensible Cooling Equipment Load Sizing

Structure	20722 Btuh
Ducts	2393 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	Y
Rate/swing multiplier	1.00
Equipment sensible load	23116 Btuh

Infiltration

Method	Simplified	
Construction quality	Tight	
Fireplaces	1 (Tight)	
	Heating	Cooling
Area (ft²)	2396	2396
Volume (ft³)	24061	24061
Air changes/hour	0.10	0.05
Equiv. A/VF (cfm)	39	19

Latent Cooling Equipment Load Sizing

Structure	4616 Btuh
Ducts	545 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	5161 Btuh
Equipment total load	28276 Btuh
Req. total capacity at 0.70 SHR	2.8 ton

Heating Equipment Summary

Make	Lennox
Trade	XP25 SERIES
Model	XP25-036-230-***
AHRI ref	5947679
Efficiency	10 HSPF
Heating input	
Heating output	32000 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	1147 cfm
Air flow factor	0.040 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Lennox
Trade	XP25 SERIES
Cond	XP25-036-230-***
Coil	CBX40UHV-036***TDR
AHRI ref	5947679
Efficiency	13.5 EER, 21.5 SEER
Sensible cooling	24050 Btuh
Latent cooling	10320 Btuh
Total cooling	34400 Btuh
Actual air flow	1147 cfm
Air flow factor	0.050 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	0.82

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

Sample Manual J Load Calculation Sheet

M Mosston



Sample Manual J Load Calculation Sheet:

Manual J - Residential Load Calculation Hank Rutkowski, 2011-11-01 Manual J 8th Edition is the national ANSI recognized standard for producing HVAC equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes This new version incorporates the complete Abridged Edition of Manual J The manual provides quick supplemental details as well as supporting reference tables and appendices A proper load calculation performed in accordance with the Manual J 8th Edition procedure is required by national building codes and most state and local jurisdictions

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