

## 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)
	<b>Heating</b>	<b>Cooling</b>
Area (ft²)	2396	2396
Volume (ft³)	24061	24061
Air changes/hour	0.10	0.05
Equiv. AVF (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.

# Manual J Load Calculation Method

**Victor M. Corman**



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