

## 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

### Heating Summary

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

### Infiltration

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

### Heating Equipment Summary

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

### 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

### 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

### 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

### 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	24060 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 Calculation Air Conditioners

**Lingsheng Yao**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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