

## 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 1 Form

**Judd E. Hollander**

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

## Manual J 1 Form:

**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 Energy Research and Development and Small Business: how much? How much more from small business? How soon? United States. Congress. Senate. Select Committee on Small Business, 1975 *Energy Research and Development and Small Business* United States. Congress. Senate. Select Committee on Small Business, 1975 , **Index of Personnel Tests and Measures** United States. Department of the Army, 1976 **Monthly Catalogue, United States Public Documents** , 1984 **The Hospital Corps Quarterly** United States. Navy Department. Bureau of Medicine and Surgery, 1923 *Encyclopaedia of Business Law and Forms* Hugh Mortimer Spalding, 1891 **The American Catalogue** , 1885 American national trade bibliography The United States Catalog , 1900 The American Catalog , 1896 **Report of the Minister of Education** Ontario. Department of Education, 1918 Principles of Air Conditioning V. Paul Lang, 1987 **Report of the Minister of Education** , 1921 *The United States Catalog* Mary Burnham, Carol Hurd, 1928 **American Book Publishing Record** R.R. Bowker Company, 1978 National Union Catalog , 1956 Includes entries for maps and atlases **Annual Report** United States Patent Office, 1872 **Moody's Manual of Investments** John Sherman Porter, 1927 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54 *Moody's Manual of Investments: American and Foreign* , 1927

## Manual J 1 Form Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Manual J 1 Form**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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