

## 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	14 °F
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

### Infiltration

Method	Simplified	
Construction quality	Tight	
Fireplaces	1	(Tight)
Area (ft <sup>2</sup> )	2398	2398
Volume (ft <sup>3</sup> )	24061	24061
Air changes/hour	0.10	0.05
Equiv. AAF (cfm)	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	
Actual air flow	1147 cfm
Air flow factor	0.040 cfm/Btuh
Static pressure	0.60 in H <sub>2</sub> O
Space thermostat	

### Summer Cooling Equipment Load Sizing

Structure	20722 Btuh
Ducts	2393 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	
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 H <sub>2</sub> O
Load sensible heat ratio	0.82

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



# Manual J Load Calculation Form

**Manual S**

## **Manual J Load Calculation 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

**Building Technology** Benjamin Stein, 1996 The complete guide to building technology This comprehensive guide provides complete coverage of every aspect of the building technologist's profession It details design and installation procedures describes all relevant equipment and hardware and illustrates the preparation of working drawings and construction details that meet project specifications code requirements and industry standards The author establishes procedures for professional field inspections and equipment operations tests provides real world examples from both residential and nonresidential construction projects and makes specific references to code compliance throughout the text This new edition incorporates changes in building codes advances in materials and design techniques and the emergence of computer aided design CAD while retaining the logical structure and helpful special features of the first edition More than 1 100 drawings tables and photographs complement and illustrate discussions in the text Topics covered include Heating ventilating and air conditioning systems equipment and design Plumbing systems equipment and design Electrical and lighting systems equipment and design Testing adjusting and balancing procedures for all building systems Every aspect of the building technologist's profession from the creation of working drawings through on site supervision and systems maintenance Extensive appendices include conversion factors duct design data test report forms for use in field work design forms and schedules for electrical HVAC and plumbing work and more

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**Load Calculation** , 1988 **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 *Intermediate Minimum Property Standards for Solar Heating and Domestic Hot Water Systems* United States. Department of Housing and Urban Development,1977 **HUD Minimum Property Standards: Solar heating and domestic hot water systems** Center for Faith-Based and Community Initiatives (United States. Department of Labor),1973 *Adjusting Central Air Conditioning Systems for Maximum Comfort* National Environmental Systems Contractors Association,1957 *Principles of Air Conditioning* V. Paul Lang,1987 **Scientific, Technical, and Engineering Societies Publications in Print** James M. Kyed,James M. Matarazzo,1974 **Scientific, Technical, and Engineering Societies Publications in Print** ,1974 **Duct Design for Residential Winter and Summer Air Conditioning and Equipment Selection** ,1984 **HVAC Procedures and Forms Manual** Herbert Wendes,2002 Developed over the course of many years of on the job projects involving HVAC energy auditing testing balancing and cost estimating and refined through feedback from thousands of engineers and technicians who have used them the forms contained in this manual are concise comprehensive and optimally organized for easy reference Complete sets of forms are provided for all aspects of testing and balancing energy auditing indoor quality diagnosis and load calculations The first edition entitled HVAC Energy Audit Balancing Forms Manual compiled these time saving forms for the first time in a single reference This enhanced second edition adds a new chapter on technical management providing procedures for achieving thorough systematic and accurate problem solving troubleshooting and decision making in building systems management and contracting **Warm Air Heating & Air Conditioning Library** National Warm-Air Heating and Air Conditioning Association (U.S.),1961 *Load Calculation for Residential Winter and Summer Air Conditioning* ,1986 Teaming for Efficiency: Market transformation ,2002 **The Basics of Applied Geothermal Engineering** Edward F. Wehlage,1975 **Residential Equipment Selection Manual S , Architectural Drawing and Light Construction** Edward John Muller,1985

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