

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) | |
| | Heating | Cooling |
| Area (ft²) | 2396 | 2396 |
| Volume (ft³) | 24061 | 24061 |
| Air changes/hour | 0.10 | 0.05 |
| Equiv. A/VF (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 | 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.

Sample Manual J Load Calculation Sheet

Michal Rosen-Zvi

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

Sample Manual J Load Calculation Sheet:

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Trane Air Conditioning Manual Trane Company,1938

The Michigan Energy Code Daverman Associates,1977

Residential Comfort System Installation Standards Manual Sheet Metal and Air Conditioning Contractors' National Association (U.S.),1998

The Code of Federal Regulations of the United States of America ,1982 The Code of Federal

Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government Code of Federal Regulations ,1982 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries *Engineer's Guide to Solar Energy* ,1979 Annotated bibliography p 275 295 Refrigeration and Air Conditioning Air-Conditioning and Refrigeration Institute,1998 For courses in Basic Refrigeration Commercial Refrigeration Residential Air Conditioning Commercial Air Conditioning Warm Air Heating Hydronic Heating HVAC Control Systems and Servicing HVAC Systems Suitable for a full range of courses this text covers information essential for all the courses outlined in the ARI Curriculum Guide for training entry level heating ventilating air conditioning and refrigeration HVACR technicians Exceptionally comprehensive authoritative up to date and well illustrated in full color it focuses on accepted and expected industry practices applicable to a wide variety of HVACR jobs Offshore Electrical Engineering Manual Geoff MacAngus-Gerrard,2017-11-06 Offshore Electrical Engineering Manual Second Edition is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems The book begins with coverage of different types of insulation hot spot temperatures temperature rise ambient air temperatures basis of machine ratings method of measurement of temperature rise by resistance measurement of ambient air temperature This is followed by coverage of AC generators automatic voltage regulators AC switchgear transformers and programmable electronic systems The emphasis throughout is on practical ready to apply techniques that yield immediate and cost effective benefits The majority of the systems covered in the book operate at a nominal voltage of 24 y dc and although it is not necessary for each of the systems to have separate battery and battery charger systems the grouping criteria require more detailed discussion The book also provides information on equipment such as dual chargers and batteries for certain vital systems switchgear tripping closing and engine start batteries which are dedicated to the equipment they supply In the case of engines which drive fire pumps duplicate charges and batteries are also required Packed with charts tables and diagrams this work is intended to be of interest to both technical readers and to general readers It covers electrical engineering in offshore situations with much of the information gained in the North Sea Some topics covered are offshore power requirements generator selection process drivers and starting requirements control and monitoring systems and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems components are maintained and production is uninterrupted Demonstrates how to repair modify and install electrical instruments ensuring compliance with current regulations and specifications Covers specification management and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC AC selection and offshore cabling designs **Air Force Design Manual** United States. Department of the Air Force,1970 **Passive Solar Heating**

Analysis J. Douglas Balcomb, 1984

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