

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

Ying-Ying Zheng

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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,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 Residential Comfort System Installation Standards Manual Sheet Metal and Air Conditioning Contractors' National Association (U.S.),1998 **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 **Air Force Design Manual** United States. Department of the Air Force,1970 Environmental Systems Library: [manual]. Air Conditioning Contractors of America,1955 **Passive Solar Heating Analysis** J. Douglas Balcomb,1984

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