

Refrigeration Load Calculation

1385 De Coulomb, Boucherville, PQ, J4B-7L8
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21541 btuh

Job Name: WEB SAMPLE

Date: **02/12/2007**

Quotation: 123456

Customer: Ref-Tec
Lewisville, NC
Fred Stahl

Tel: 336-945-2145

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Submitted by: Ref-Tec
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Room Description: Dimensions: Length 20.00 ft Width 20.00 ft Height 10.00 ft
Refrigerated Room Temp. 35 F Relative Humidity 90%
Ambient Temp. 95 F Run Hours 16

WALL GAIN	Insulation	Thickness adj/Temp	
No 0.16K	L x H Polyurethane	4.00 in 90 F	6480 btuh
So 0.16K	L x H Polyurethane	4.00 in 90 F	660 btuh
Ea 0.16K	W x H Polyurethane	4.00 in 90 F	660 btuh
We 0.16K	W x H Polyurethane	4.00 in 90 F	660 btuh
Clg 0.16K	L x W Polyurethane	4.00 in 90 F	1320 btuh
Flr 0.21U	L x W Concrete 6" slab	55 F	2520 btuh

INFILTRATION Average Air Change Method Heavy Use **8240 btuh**
Air Changes 16.40 90 F @ 60 RH% a/c Factor 2.01

LIGHTING 1.50 watts/sq/ft for 8 hours **1023 btuh**

PRODUCT Product Load **3840 btuh**

SAFETY Safety Factor 10 % **1958 btuh**

TOTALS Total Loads **21541 btuh**

Units **1 ea REFPLUS OCZ-025-1H2 R-22**
unit based on 95 F ambient @ 25 F suction
22400 BTUH at 15.39 run hrs 344736 Daily Load - Selected
21541 BTUH at 16.00 run hrs 344656 Daily Load - Design

Coils **1 ea REFPLUS LSA2000 11.20 TD air defrost**

General Storage **9600 lbs in at 45 F 24 hr/pd**
Specific Heat Above Freezing 0.96 factor 3840 btuh
Specific Heat Below Freezing 0.48 factor 0 btuh
Latent Heat of Fusion 112 factor 0 btuh

Comments: Please review this sheet for accurate input information as it is your responsibility that it is correct.
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