

Project Information

For: Sample Project, Anybody's Ready Built Home
1234 First street, Anywhere, USA 12345
Phone: 123-456-7890

Notes: Anybody's Ready Built Home, Anywhere, USA.

Design Information

Weather: Vero Beach Muni, FL, US

Winter Design Conditions

Outside db 43 °F
Inside db 70 °F
Design TD 27 °F

Summer Design Conditions

Outside db 91 °F
Inside db 75 °F
Design TD 16 °F
Daily range L
Relative humidity 50 %
Moisture difference 59 gr/lb

Heating Summary

Structure 11213 Btuh
Ducts 8338 Btuh
Central vent (137 cfm) 4064 Btuh
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 23615 Btuh

Sensible Cooling Equipment Load Sizing

Structure 16180 Btuh
Ducts 11133 Btuh
Central vent (137 cfm) 2333 Btuh
Blower 1707 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 31353 Btuh

Infiltration

Method Simplified
Construction quality Tight
Fireplaces 1 (Tight)

Latent Cooling Equipment Load Sizing

Structure 3641 Btuh
Ducts 3593 Btuh
Central vent (137 cfm) 5524 Btuh
Equipment latent load 12757 Btuh
Equipment total load 44111 Btuh
Req. total capacity at 0.70 SHR 3.7 ton

| | Heating | Cooling |
|---------------------------|---------|---------|
| Area (ft ²) | 229 | 2296 |
| Volume (ft ³) | 1836 | 18368 |
| Air changes/hour | 0.11 | 0.06 |
| Equiv. AVF (cfm) | 34 | 18 |

Heating Equipment Summary

Make Bryant
Trade BRYANT HEATING AND COOLING SYS...
Model FX4DN(B,F)061L
AHRI ref 7018551

Cooling Equipment Summary

Make Bryant
Trade BRYANT HEATING AND COOLING SYS...
Cond 123ANA048****C*
Coil FX4DN(B,F)061L
AHRI ref 7018551

Efficiency 100 AFUE
Heating input 12.0 kW
Heating output 40956 Btuh
Temperature rise 24 °F
Actual air flow 1533 cfm
Air flow factor 0.078 cfm/Btuh
Static pressure 0.59 in H2O
Space thermostat

Efficiency 11.0 EER, 13 SEER
Sensible cooling 32200 Btuh
Latent cooling 13800 Btuh
Total cooling 46000 Btuh
Actual air flow 1533 cfm
Air flow factor 0.046 cfm/Btuh
Static pressure 0.59 in H2O
Load sensible heat ratio 0.71

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