Project Information

For:
Fredericksburg, TX 78624

Cooling Equipment

Design Conditions

Outdoor design DB: 96.9°F
Outdoor design WB: 73.6°F
Indoor design DB: 75.0°F
Indoor RH: 50%

Sensible gain: 23116 Btuh
Latent gain: 5161 Btuh
Total gain: 28276 Btuh

Entering coil DB: 75.1°F
Entering coil WB: 62.5°F
Estimated airflow: 1147 cfm

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
Manufacturer: Lennox
Model: XP25-036-230-**+CBX40UHV-036*++TDR

Actual airflow: 1147 cfm
Sensible capacity: 24080 Btuh 104% of load
Latent capacity: 10320 Btuh 200% of load
Total capacity: 34400 Btuh 122% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB: 31.6°F
Indoor design DB: 70.0°F

Heat loss: 28826 Btuh

Entering coil DB: 69.9°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
Manufacturer: Lennox
Model: XP25-036-230-**+CBX40UHV-036*++TDR

Actual airflow: 1147 cfm
Output capacity: 34400 Btuh 119% of load
Supplemental heat required: 0 Btuh

Capacity balance: 36 °F
Economic balance: -99 °F

Backup equipment type: Elec strip
Manufacturer: Lennox
Model: Lennox
Actual airflow: 1147 cfm
Output capacity: 10.0 kW 118% of load
Temp. rise: 28 °F

The above equipment was selected in accordance with ACCA Manual S.
Project Information

For:
Fredericksburg, TX 78624

Cooling Equipment

Design Conditions

Outdoor design DB: 96.9°F  Sensible gain: 24073 Btuh  Entering coil DB: 75.1°F
Outdoor design WB: 73.6°F  Latent gain: 5203 Btuh  Entering coil WB: 62.5°F
Indoor design DB: 75.0°F  Total gain: 29276 Btuh
Indoor RH: 50%  Estimated airflow: 1147 cfm

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
Manufacturer: Lennox  Model: XP25-036-230-**+CBX40UHV-036*
Actual airflow: 1147 cfm
Sensible capacity: 24080 Btuh  100% of load
Latent capacity: 10320 Btuh  198% of load
Total capacity: 34400 Btuh  118% of load  SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB: 31.6°F  Heat loss: 29407 Btuh  Entering coil DB: 69.9°F
Indoor design DB: 70.0°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
Manufacturer: Lennox  Model: XP25-036-230-**+CBX40UHV-036*
Actual airflow: 1147 cfm
Output capacity: 34400 Btuh  117% of load  Capacity balance: 36 °F
Supplemental heat required: 0 Btuh  Economic balance: -99 °F
Backup equipment type: Elec strip
Manufacturer:  Model:
Actual airflow: 1147 cfm
Output capacity: 8.7 kW 101% of load  Temp. rise: 50 °F

The above equipment was selected in accordance with ACCA Manual S.