

Certificate of Product Ratings

AHRI Certified Reference Number: 3646155

Date: 10/2/2012

Product: Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: 25HBC542A**30

Indoor Unit Model Number: FX4DN(E,F)043

Manufacturer: CARRIER AIR CONDITIONING

Trade/Brand name: BASE 15 PURON HP

Manufacturer responsible for the rating of this system combination is CARRIER AIR CONDITIONING

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	41500
EER Rating (Cooling):	12.50
SEER Rating (Cooling):	15.00
Heating Capacity(Btuh) @ 47 F:	41500
Region IV HSPF Rating (Heating):	8.70
Heating Capacity(Btuh) @ 17 F:	26400

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

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Project Information

For: Larry Breeden
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Phone: 344-5237

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db 33 °F
Inside db 70 °F
Design TD 37 °F

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 17 °F
Daily range M
Relative humidity 50 %
Moisture difference 52 gr/lb

Heating Summary

Structure 28699 Btuh
Ducts 8409 Btuh
Central vent (0 cfm) 0 Btuh
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 37108 Btuh

Sensible Cooling Equipment Load Sizing

Structure 24090 Btuh
Ducts 10498 Btuh
Central vent (0 cfm) 0 Btuh
Blower 0 Btuh
Use manufacturer's data
Rate/swing multiplier 0.97 n
Equipment sensible load 33550 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 1 (Average)

Latent Cooling Equipment Load Sizing

Structure 4203 Btuh
Ducts 2385 Btuh
Central vent (0 cfm) 0 Btuh
Equipment latent load 6587 Btuh
Equipment total load 40137 Btuh
Req. total capacity at 0.84 SHR 3.3 ton

Heating Equipment Summary

Make Carrier
Trade Comfort 15
Model 25HBC542
AHRI ref no3646155

Cooling Equipment Summary

Make Carrier
Trade Comfort 15
Cond 25HBC542
Coil FX4DNF043T00
AHRI ref no3646155

Efficiency

8.7 HSPF

Efficiency

15 SEER

Heating input

41500 Btuh @ 47°F

Sensible cooling

34860 Btuh

Temperature rise

27 °F

Total cooling

6640 Btuh

Actual air flow

1431 cfm

Actual air flow

1431 cfm

Air flow factor

0.039 cfm/Btuh

Air flow factor

0.041 cfm/Btuh

Static pressure

0 in H2O

Static pressure

0 in H2O

Space thermostat

Load sensible heat ratio

0.84

10/07/2012

Reference:HVAC permit:

Breedon Residence

Material proposal

Mastic

Foil tape

Insulation wrap

Pvc drain piping

Equipment:

Carrier 25HBC542A003, FX4DNF043T00,CE080In08, TC-NHP01