## Dawson HVAC Load Calculations

for

House Craft Homes 10523 US Highway 441 Alachua FI 32615



Prepared By:

R. M. Walsh North Centeral Florida Air Conditioning P.O Box 358604 Gainesville, Fl 32635 386-454-4767 Thursday, July 16, 2020

Rhvac is an ACCA approved Manual J, D and S computer program.

Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.



Elite Software Development, Inc.

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### Project Report

General Project Information

Project Title:

Dawson

Project Date:

Friday, March 1, 2020

**Project Comment:** 

Edit the file AUTOLOAD.RHV so that it contains your company name, weather

data, and any other information you would like to have in each new project that you

start

Client Name: Client Address: House Craft Homes 10523 US Highway 441

Client City:

Alachua FI 32615

Client Phone:

386-462-5323

Client Fax:

888-769-0105

Client E-Mail Address:

housecraftinvoices@gmail.com

Company Name:

North Centeral Florida Air Conditioning

Company Address:

R. M. Walsh

Company Address:

P.O Box 358604

Company City:

Gainesville, FI 32635

Company Phone:

386-454-4767

Company Fax:

386-454-4854

Company Comment:

Design Data

Reference City:

Gainsville AP, Florida

**Building Orientation:** 

Front door faces South

Daily Temperature Range:

Medium

Latitude:

29 Degrees

Elevation:

152 ft.

Altitude Factor:

0.995

	Outdoor	Outdoor	Outdoor	Indoor	Indoor	Grains
	Dry Bulb	Wet Bulb	Rel.Hum	Rel.Hum	Dry Bulb	Differenc
Winter:	33	30.8	n/a	n/a	70	e n/a
Summer:	92	· 77	51%	50%	75	52

**Check Figures** 

Total Building Supply CFM:

Square ft. of Room Area:

Volume (ft³):

864

CFM Per Square ft.:

90.530

Square ft. Per Ton:

454

454

**Building Loads** 

Total Heating Required Including Ventilation Air:

Total Sensible Gain:

Total Latent Gain:

Total Cooling Required Including Ventilation Air:

33,388 Btuh
24,298 Btuh
33.388 MBH
69 %
10,756 Btuh
31 %
2.92 Tons (Based On Sensible

+ Latent)

3.59 Tons (Based On 75% Sensible Capacity)

#### Notes

Rhvac is an ACCA approved Manual J, D and S computer program.

Calculations are performed per ACCA Manual J 8th Edition, Version 2, and ACCA Manual D.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads according to the manufacturer's performance data at your design conditions.



Buct Size Preview

## Equipment Data - System 1 - Main Floor

# Cooling

System Type:

Outdoor Model: Indoor Model:

Tradename:

Outdoor Manufacturer:

Description:

AHRI Reference No.:

Capacity: Efficiency:

Heating

System Type:

Model:

Tradename: Manufacturer:

Description:

Capacity: Efficiency: Air Source Heat Pump

GSZ140241K\* ARUF25B14A\*

GSZ14

GOODMAN

Air Source Heat Pump

201640401 23,200 14 SEER

Air Source Heat Pump

GSZ140241K\*

GSZ14 GOODMAN

Air Source Heat Pump

23,200 8.2 HSPF