



Load Short Form Entire House WebReps

31

Job: 224 South West Longhorn ...
Date: May 12th, 2023
By: Kenneth D. Puzinas
Plan: 224 S. W. Longhorn Terr

1880, 82nd Avenue, Vero Beach, FL 32966 Phone: 1-800-810-3280 Fax: 1-888-971-2999 Email: manualj@webrepsusa.com

Project Information

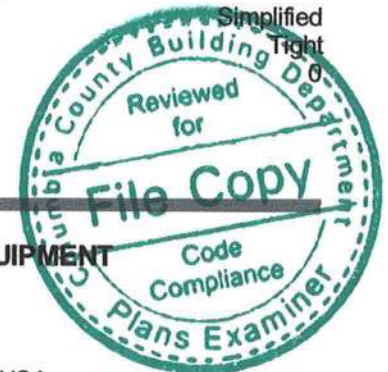
For: James Swanson, Absolute Air Inc.
835, 34th Avenue, Vero Beach, FL 32960
Phone: 772-473-9464
Email: absoluteairjs@gmail.com

Design Information

	Htg	Clg	
Outside db (°F)	33	92	Method
Inside db (°F)	70	75	Construction quality
Design TD (°F)	37	17	Fireplaces
Daily range	-	M	
Inside humidity (%)	30	50	
Moisture difference (gr/lb)	10	43	

Infiltration

Simplified
Tight



HEATING EQUIPMENT

Make Ruud
Trade RUUD
Model RP1436AJ1NA
AHRI ref 7489178

Efficiency 9 HSPF
Heating input
Heating output 34800 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 1173 cfm
Air flow factor 0.062 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 21 °F

COOLING EQUIPMENT

Make Ruud
Trade RUUD
Cond RP1436AJ1NA
Coil RH1T3617STANJAUSA
AHRI ref 7489178

Efficiency 11.5 EER, 14 SEER
Sensible cooling 24640 Btuh
Latent cooling 10560 Btuh
Total cooling 35200 Btuh
Actual air flow 1173 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.70

Backup:

Input = 6 kW, Output = 21306 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
M BEDROOM	210	3505	3694	218	201
BATH ROOM	62	683	293	42	16
BEDROOM 2	152	2867	2074	178	113
CL2	18	0	0	0	0
LIN	7	0	0	0	0
M WIC	68	92	245	6	13
M BATH	96	1239	668	77	36
LIVING	285	2608	4386	162	239
DINING	156	1622	3779	101	206
KITCHEN	285	4291	4788	267	261
CCL	7	0	0	0	0
LN	8	0	0	0	0
MECH	20	0	0	0	0
LAUNDRY	65	1980	1605	123	87

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

Entire House	1440	18887	21532	1173	1173
Other equip loads		3627	2958		
Equip. @ 1.00 RSM			24490		
Latent cooling			10369		
TOTALS	1440	22514	34859	1173	1173

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Project Summary Entire House WebReps

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Project Information

For: James Swanson, Absolute Air Inc.
835, 34th Avenue, Vero Beach, FL 32960
Phone: 772-473-9464
Email: absoluteairjs@gmail.com
Notes: 224 South West Longhorn Terrace, Fort White, FL 32038

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	43 gr/lb

Heating Summary

Structure	13883 Btuh
Ducts	5004 Btuh
Central vent (66 cfm)	2641 Btuh
Outside air	
Humidification	987 Btuh
Piping	0 Btuh
Equipment load	22514 Btuh

Sensible Cooling Equipment Load Sizing

Structure	14476 Btuh
Ducts	7056 Btuh
Central vent (66 cfm)	1252 Btuh
Outside air	
Blower	1707 Btuh
Use manufacturer's data	y
Rate/swing multiplier	1.00
Equipment sensible load	24490 Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	7026 Btuh
Ducts	1409 Btuh
Central vent (66 cfm)	1933 Btuh
Outside air	
Equipment latent load	10369 Btuh

	Heating	Cooling
Area (ft²)	1440	1440
Volume (ft³)	12960	12960
Air changes/hour	0.16	0.08
Equiv.AVF (cfm)	35	17

Equipment Total Load (Sen+Lat)	34859 Btuh
Req. total capacity at 0.70 SHR	2.9 ton

Heating Equipment Summary

Make	Ruud
Trade	RUUD
Model	RP1436AJ1NA
AHRI ref	7489178
Efficiency	9 HSPF
Heating input	
Heating output	34800 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1173 cfm
Air flow factor	0.062 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	
Capacity balance point = 21 °F	

Backup:
Input = 6 kW, Output = 21306 Btuh, 100 AFUE

Cooling Equipment Summary

Make	Ruud
Trade	RUUD
Cond	RP1436AJ1NA
Coil	RH1T3617STANJAUSA
AHRI ref	7489178
Efficiency	11.5 EER, 14 SEER
Sensible cooling	24640 Btuh
Latent cooling	10560 Btuh
Total cooling	35200 Btuh
Actual air flow	1173 cfm
Air flow factor	0.054 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.70

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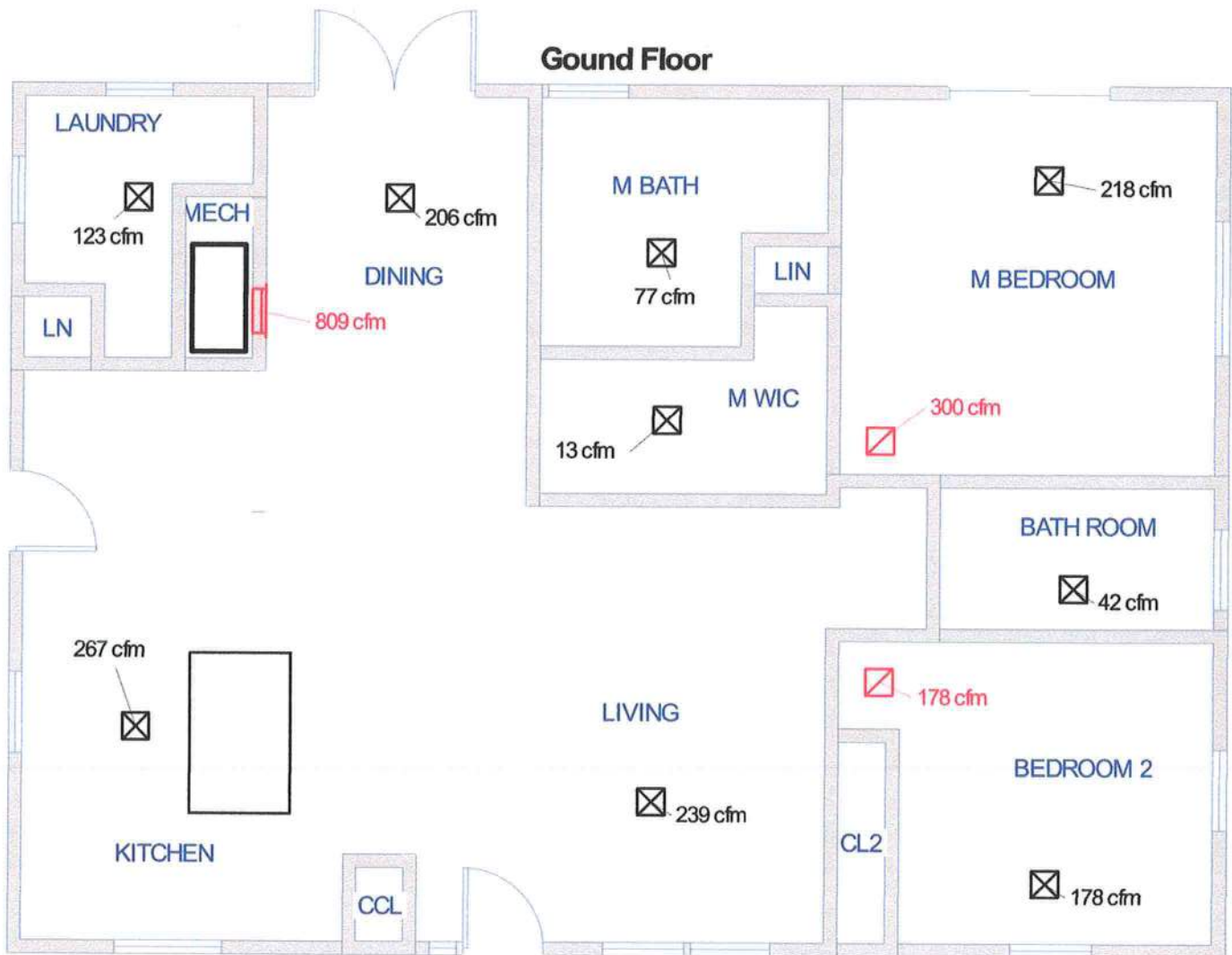
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Page 1



Ground Floor



Job #: 224 South West Longhorn Terrace
Performed by Kenneth D. Puzinas for:

James Swanson
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Vero Beach, FL 32960
Phone: 772-473-9464
absoluteaijs@gmail.com

WebReps

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Scale: 1 : 75

Page 1
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