



Manual S Compliance Report

Zone 1 AH

Jerico Aire

Job: 1
Date: Dec 05, 2020
By:

Nassau, Bahamas, Nassau, NP Phone: 000-0000

Project Information

For: Customer
Nassau, Bahamas, Nassau, NP SS0000
Phone: 000-00000

Cooling Equipment

Design Conditions

Outdoor design DB:	91.4°F	Sensible gain:	41358 Btuh	Entering coil DB:	77.2°F
Outdoor design WB:	79.1°F	Latent gain:	7637 Btuh	Entering coil WB:	63.7°F
Indoor design DB:	75.0°F	Total gain:	48995 Btuh		
Indoor RH:	50%	Estimated airflow:	1675 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split AC			
Manufacturer:	Daikin	Model:	DX16SA0601A+ASPT61D14A	
Actual airflow:	1675 cfm			
Sensible capacity:	44601 Btuh	108% of load		
Latent capacity:	8774 Btuh	115% of load		
Total capacity:	53376 Btuh	109% of load	SHR:	84%

Heating Equipment

Design Conditions

Outdoor design DB:	61.2°F	Heat loss:	0 Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Gas furnace			
Manufacturer:		Model:		
Actual airflow:	1675 cfm			
Output capacity:	0 Btuh	0% of load	Temp. rise:	0 °F

Meets all requirements of ACCA Manual S.





DHW Report
Zone 1 AH
Jerico Aire

Job: 1
 Date: Dec 05, 2020
 By:

Nassau,Bahamas, Nassau, NP Phone: 000-0000

Project Information

For: Customer
 Nassau,Bahamas, Nassau, NP SS0000
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Design Criteria

Occupants		Not occupied during the day	
Age	Number		
0-5	0	Dishwasher	
6-13	2	Clothes washer	
14-59	2	Additional use (gpd)	0
60+	0	Setpoint (°F)	120
		Daily use (gpd)	61

Gas conventional (40 gal, 0.60 EF)

Manufacturer	Tank size (gal)	40
Trade name	Energy factor	0.60
Model	Input (MBtuh)	0.0
AHRI ref. number	1st hour (gal)	60
	Recovery eff. (%)	77



Residential Plans Examiner Review Form for HVAC System Design (Loads, Equipment, Ducts)

Form
RPER 1
15 Mar 09

Header Information

Contractor: Jerico Aire	REQUIRED ATTACHMENTS	ATTACHED
Mechanical license:	Manual J1 Form (and supporting worksheets):	Yes <input type="checkbox"/> No <input type="checkbox"/>
Building plan #:	or MJ1AE Form* (and supporting worksheets):	Yes <input type="checkbox"/> No <input type="checkbox"/>
Home address (Street or Lot#, Block, Subdivision): Nassau, Bahamas, Zone 1 AH	OEM performance data (heating, cooling, blower):	Yes <input type="checkbox"/> No <input type="checkbox"/>
	Manual D Friction Rate Worksheet:	Yes <input type="checkbox"/> No <input type="checkbox"/>
	Duct distribution sketch:	Yes <input type="checkbox"/> No <input type="checkbox"/>

HVAC LOAD CALCULATION (IRC M1401.3)

Design Conditions

Building Construction Information

Winter Design Conditions

Outdoor temperature: 61 °F
 Indoor temperature: 70 °F
 Total heat loss: 0 Btuh

Summer Design Conditions

Outdoor temperature: 91 °F
 Indoor temperature: 75 °F
 Grains difference: 66 gr/lb @50% RH
 Sensible heat gain: 41358 Btuh
 Latent heat gain: 7637 Btuh
 Total heat gain: 48995 Btuh

Building

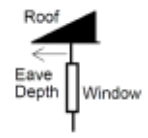
Orientation: Building Front faces East
North, East, West, South, Northeast, Northwest, Southeast, Southwest

Number of bedrooms: 0
 Conditioned floor area: 1269 ft²
 Number of occupants: 15

Windows

Eave overhang depth: 12.0 ft
 Internal shade: none
Blinds, drapes, etc.

Number of skylights: 0



HVAC EQUIPMENT SELECTION (IRC M1401.3)

Heating Equipment Data

Cooling Equipment Data

Blower Data

Equipment type: Gas furnace <small>Furnace, Heat pump, Boiler, etc.</small>	Equipment type: Split AC <small>Air Conditioner, Heat pump, etc.</small>	Heating cfm: 1675
Model:	Model: Daikin DX16SA0601A+ASPT61D14A	Cooling cfm: 1675
Heating output capacity: 0 Btuh <small>Heat pumps - capacity at winter design outdoor conditions</small>	Total cooling capacity: 53376 Btuh	Static pressure: 0.50 in H ₂ O <small>Fan's rated external static pressure for design airflow</small>
Aux. heating output capacity: 0 Btuh	Sensible cooling capacity: 44601 Btuh	
	Latent cooling capacity: 8774 Btuh	

HVAC DUCT DISTRIBUTION SYSTEM DESIGN (IRC M1601.1)

Design airflow: 1675 cfm	Longest supply duct: 239 ft	Duct Materials Used
Equipment design ESP: 0.50 in H ₂ O	Longest return duct: 129 ft	Trunk duct: Fiberglass board
Total device pressure losses: -0.3 in H ₂ O	Total effective length (TEL): 368 ft	
Available static pressure (ASP): 0.24 in H₂O	Friction rate: 0.065 in/100ft <small>Friction Rate = ASP ÷ (TEL x 100)</small>	Branch duct: Round flex vinyl, Fiberglass board

I declare the load calculation, equipment, equipment selection and duct design were rigorously performed based on the building plan listed above. I understand the claims made on these forms will be subject to review and verification.

Contractor's printed name: _____

Contractor's signature: _____ Date: _____

Reserved for County, Town Municipality or Authority having jurisdiction use.

*Home qualifies for MJ1AE Form based on Abridged Edition Checklist