City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

PERMIT CARD – PLEASE POST AT JOB SITE

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

Per FBC 105.3.3: An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "**NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies.**" The issuance of this permit does not grant permission to violate any applicable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and Mechanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after commencement. WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD. PERMISSION IS GRANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE TOWN OF WINDERMERE, FLORIDA.

Scope of Work: Mechanical – c/o 4ton HVAC with no ductwork

Comments: None

Project Information
Address: 5127 Monet Ave, Belle Isle, FL 32812
Parcel ID: 17-23-30-4380-05-130
Property Owner: Colfin Ai-FL4 LLC
Phone Number: None

****

Company Name: Precision Air and Heat Inc.
Contractor Name: Aprcovic, Andrija
License Number: CAC1816604
Address: 200 Maitland Ave, 202 Altamonte Springs, FL 32701
Phone Number: 407-529-5152

Permit Number: 2014-10-017

Date of Application: 10/10/2013
Date Permit Issued: 10/21/2013

WARNING TO OWNER: "YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." ON THE JOB INSPECTION(S) MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.

BUILDING FEATURES

IMPACT FEES
School $

ZONING FEES
Zoning Fee $

UNIVERSAL ENG - BUILDING FEES

Demo	$
Building	$
Fence	$
Driveway	$
Shed	$
Window(s)	$
Door(s)	$
PrePower	$
Electrical Fee	$
Temp Pole	$
Plumbing Fee	$
Mechanical Fee	$74.00
Gas Fee	$
Roofing	$
Boat Dock	$
Screen Encl	$
Swimming Pool	$

SURCHARGE FEES

Surcharge Fee	$2.00
Surcharge Fee	$2.00

TOTAL FEES $78.00

Date Paid 10-21-13

CC or Check # amex 21001

Amount Paid 78.00

The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).

BUILDING INSPECTOR USE ONLY

IF APPLICABLE:

Have Zoning Approval Conditions Been Met? YES NO **Have Stormwater Approval Conditions Been Met?** YES NO **Silt fencing in place?** YES NO **Turbidity Barrier in place?** YES NO

☐ **BUILDING**

1st _____ (Footing/Foundation)
Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? ____

2nd _____ (Slab)

3rd _____ (Lintel)(Wall Reinforcing on Masonry Building)

4th _____ (Exterior Framing)(Roof/Wall Sheathing)

5th _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)

6th _____ (Insulation to be Made After Roof Installed)

7th _____ (Drywall)

8th _____ (Sidewalk/Driveway)

9th _____ (Other)

10th _____ (Final – After MEP and Other Applicable Finals)

☐ **ROOFING**

1ST ROOFING Deck Nailing/Dry-in/Flashing _____

2nd ROOFING Covering In-Progress _____

3rd ROOFING Covering Final _____

☐ **PLUMBING** (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)

1ST _____ (Underground) 2nd _____ (Sewer)

3rd _____ (Rough-In/Tub Set) 4th _____ (Final)

CHECK APPROPRIATE BOX

☐ **GAS** __**Natural** ___**LP** ☐ **MECHANICAL** ☐**ELECTRICAL** ☐ **LOW VOLTAGE**

1st _____ (Rough-In) 2nd _____ (Final)

Inspection requests are to be emailed to BIDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 1pm. Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.

For a copy of your permit, or to check inspection results, please visit https://universalengineering.sharefile.com/f/fo94edc4-832d-44bd-9809-ecf32f9e2e63
login ID = cobi@universalengineering.com password = universal13

City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

APPLICATION FOR MECHANICAL PERMIT

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: 10.10.13. **PERMIT NUMBER** 2014-10-017

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 5127 MONET Ave, Belle Isle FL ☐ 32809 ☒ 32812
Property Owner Colfin-Ai-FL4 LLC Phone
Property Owner's Mailing Address City
State Zip Code **Parcel Id Number:** 17-23-30-4380-05-130

To obtain this information, please visit http://www.ocpafl.org/Searches/ParcelSearch.aspx

Class of Building: Old ☒ New ☐ **Type of Building:** Residential ☒ Commercial ☐ Other ☐
Type of Work: New ☐ Alteration ☒ Addition ☐ Repair ☒

- **REQUIRED Tie Down Engineering and Equipment Sizing Calculation**
- **REQUIRED, adding A/C to new space – provide Energy Calculations**
- **REQUIRED, if replacing unit with no duct work, Duct Certification as per FB 101.4.7.1, must be posted on unit**

Please indicate the nature of work by completing the information below:

Air Conditioning: # of Units 1 Tons Per Unit 4.0 Total Tons 4.0
Type of System: Water to Air ____ Chiller ____ Split System ____ Package ____ Heat Pump ✓ Estimated Cost $ 3,000.00

Heating: # of Units KWS Per Unit ____ Total KWS 5 BTU's ____ Estimated Cost $ ____
Oil ____ Electric ✓ Boiler ____ Gas ____

(A) Estimated Cost Fee $____

Fees for items below are based on valuation of all units, equipment, materials and labor supplied by owner or contractor.

Ventilation:
(Number of) Grease ____ Heat ____ Hoods, Air Intakes ____ Exhaust Fans ____ Dryer Vents ____ Estimated Cost $ ____

Refrigeration: Number of units ____ Estimated Cost $ ____

Piping: Air ____ Vacuum ____ Steam ____ Chill Water ____ Estimated Cost $ ____

Others: (Specify) ____ Estimated Cost $ ____

Was the space previously Air Conditioned? Yes ✓ No ____ (B) Estimated Cost Fee $____

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances.

LICENSE HOLDER SIGNATURE ____ LICENSE # CAC1816604
LICENSE HOLDER NAME ANDRIJA APRCOVIC COMPANY NAME PRECISON AIR AND HEAT
Street Address 200 MAITLAND AVE 202
City ALTAMONTE SPRINGS State FL Zip Code 32701 Phone Number 407-529-5152

~~MUST PROVIDE TIE DOWN PACKAGE AT INSTALLATION TIME.~~

Building Official: ____ **Date** 10-11-2013

Review & Permit Fee	$ 74.00
3% Florida Surcharge	$ 4.00
Total Permit Fee	$ 78.00

NOTE: The Building Permit Number is required if the Mechanical Installation is associated with any construction or alteration where a Building Permit has been issued.

Building Permit Number ____

PROJECT NUMBER 0115.1300 655.0000

TASK NUMBER 02

CITY OF BELLE ISLE
Permit Application Review Sheet

Permit Number	2014-10-017
Property Owner	Colfin AJ-FL 4 LLC
Address	5127 Monet Ave
Nature of Improvement	HVAC
Received Application	10-10-13
Sent for Stormwater Review	N/A
Stormwater Approved	
Sent for Zoning Review	N/A
Zoning Approved	
Applied for Variance	
Variance Approved	
Sent to BO for Review	10-11-2013
Building Official Approved	10-21-2013 AP.
Comments	
1. 10-11-2013	MUST have ANCHORING PACKAGE at time of Inspection.
2. 10-11-2013	I called & left a message that we need anchoring info
3.	
4. 10-21-13 cg	Recd 3pgs for tie down paperwork - references 2007 FBC; gave to angel to review.
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	

Goodman
Air Conditioning & Heating

April 3, 2009

Mr. Bill Hitt
4650 Aulmerton Road
Clearwater, FL 33762

Bill,

I understand that our approval for the Florida High Wind Tie Down and Unit Integrity has been questioned based on the drawings attached to the approval letter written by Paul Welch, P.E. of Port Saint Lucie, Florida.

Mr. Welch has thoroughly reviewed our system of four brackets and how they attach to the air conditioner or heat pump from the outside of the unit and determined that a unit attached in this manner meets the Florida requirements of the 2007 building code. Mr. Welch has determined the requirements for fasteners on our cabinets and calculated that the fasteners we use allow our cabinets to meet the structural integrity requirements of the 2007 Florida building Code. This is distinctly outlined in the letter written by Mr. Welch and dated March 12, 2009.

Sincerely,

Al Knight

Al Knight
Product Manager – Outdoor Split Systems
Goodman Manufacturing Company

CC: Stan Cushen
Design Engineering Manager – Split Systems
Goodman Manufacturing Company

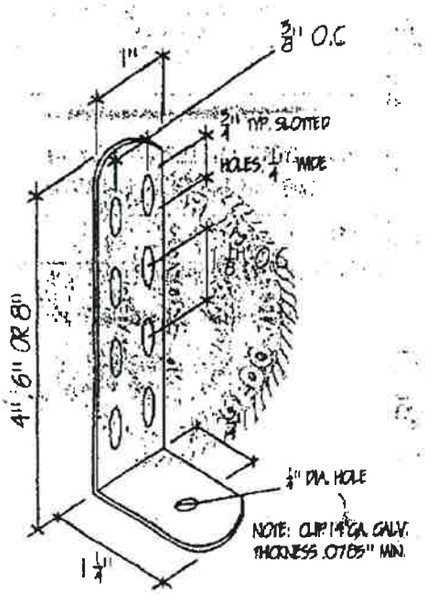
ALFREDO ARTEAGA JR. & ASSOC. INC
ENGINEERING CONSULTANTS
CA.3885
850 W. 68 ST. HIALEAH, FLORIDA #33014
305 - 828 - 7876

A/C HOLD DOWN CLIP
BY: BMP INTERNATIONAL INC.
INSTALLATION DRAWING

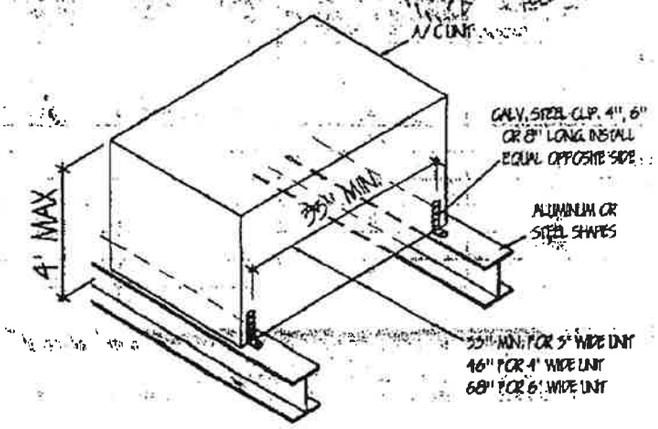
DATE: 1-28-10 1 of 2

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

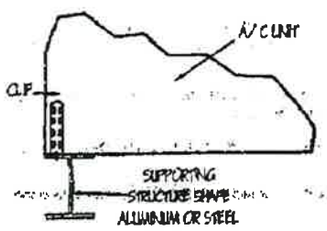
ALFREDO ARTEAGA JR. P.E.
FLA. REG. NO. 49770 DATE 1-28-10



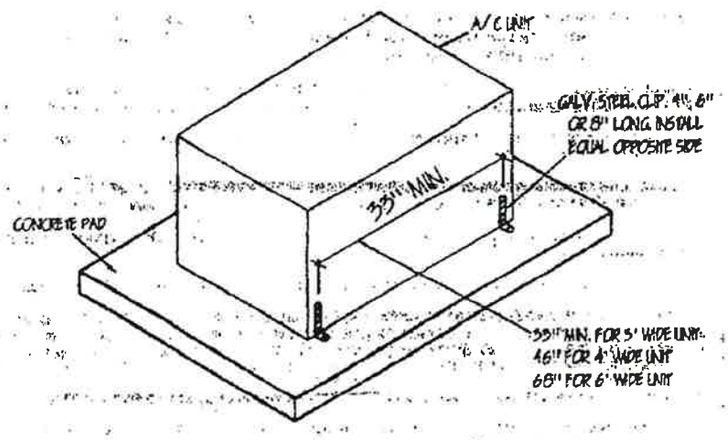
CLIP CONSTRUCTION DETAIL
N.T.S



ISOMETRIC A/C UNIT ON ELEVATED STRUCTURE
N.T.S



ELEVATION SKETCH
N.T.S



ISOMETRIC A/C UNIT ON GROUND OR ELEVATED CONCRETE
N.T.S

TABLE OF CLIP ATTACHMENT SUPPORTING STRUCTURE OR A/C UNIT (146 MPH)

HEIGHT ABOVE GROUND FT.	NUMBER OF SCREWS TO HOUSING OF A/C, GALV. NO. 14 SELF DRILLING	TAPCON TO CONCRETE ¼" DIA. X 2" LONG	GALV. SCREW SELF DRILLING TO ALUM. RACK SUPPORT ¼" DIA. X 1 ½"
15'	2	1	1
20'	2	1	1
25'	2	1	1
30'	2	1	1
40'	2	1	1
50'	2	1	1
60'	3	1	1
70'	3	1	1
80'	3	1	1
90'	3	1	1

TABLE OF CLIP ATTACHMENT SUPPORTING STRUCTURE OR A/C UNIT (155 MPH)

HEIGHT ABOVE GROUND FT.	NUMBER OF SCREWS TO HOUSING OF A/C, GALV. NO. 14 SELF DRILLING	TAPCON TO CONCRETE ¼" DIA. X 2" LONG	GALV. SCREW SELF DRILLING TO ALUM. RACK SUPPORT ¼" DIA. X 1 ½"
15'	2	1	1
20'	2	1	1
25'	2	1	1
30'	2	1	1
40'	3	1	1
50'	3	1	1
80'	3	1	NO
70'	3	1	NO
80'	3	1	NO
90'	3	1	NO

NOTES: 1) FOR STEEL SUPPORTING STRUCTURES, USE SELF DRILLING GALVANIZED ¼" DIA. SCREWS X 1 ½" LONG AS FOR ALUMINUM RACKS.
2) SPACING OF SCREWS IN A/C HOUSING SHALL BE A MIN. OF 1".
3) STAINLESS STEEL SCREWS MAY BE USED WHERE REQUIRED BY GOVERNING AGENCY.

ALFREDO ARTEAGA JR. & ASSOC. INC
ENGINEERING CONSULTANTS
CA 3886
850 W. 68 ST. HIALEAH, FLORIDA #33014
305 - 828 -7876

A/C HOLD DOWN CLIP
BY: BMP INTERNATIONAL INC.
INSTALLATION DRAWING

DATE: 1-28-10 2 of 2

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

ALFREDO ARTEAGA JR. P.E.
FLA. REG. NO. 33070 DATE: 2-3-10

Reviewed for Code Compliance Universal Engineering Sciences

GENERAL NOTES:

1 - DESIGN CALCULATIONS WERE BASED ON THE FLORIDA BUILDING CODE 2007 EDITION WITH 2009 AMENDMENTS AND ASCE 7-05 CHAPTER 6 FOR WIND LOADS AND VELOCITIES OF 146 MPH AND 155 MPH. IMPORTANCE FACTOR USED IN THE DESIGN I=1.0. EXPOSURE C AS CRITICAL.

2 - A/C UNIT MAXIMUM SIZE TO BE 7 FT. WIDE X 6 FT. HIGH AND A MAXIMUM WEIGHT OF 150 POUNDS FOR COUNTERACTING WEIGHT OR 4' X 4' X 4' HIGH.

3 - MOUNTING HEIGHT OF UNIT AS TO TABLES INDICATES TOP OF UNIT.

4 - ALL SCREWS USED IN ATTACHING CLIP SHALL BE GALVANIZED AISI, BE SELF DRILLING WITH A MINIMUM HEAD DIAMETER OF .3125 INCHES. SCREWS SHALL BE DRILLED TIGHT, NOT OVER TIGHTENED AND BE ¼ INCH DIAMETER AND 1 ½ INCH LONG FOR CLIP TO SUPPORTING STRUCTURE OR NO. 14 SELF DRILLING AND ¾" INCH LONG FOR ATTACHMENT TO HOUSING.

5 - TAPCONS USED IN ATTACHING CLIP BOTTOM TO CONCRETE SHALL BE PRODUCT APPROVED, WITH A RATED TENSILE STRENGTH OF 460 POUNDS INTO 1700 PSI MIN. COMPRESSIVE STRENGTH CONCRETE. ALL TAPCONS SHALL BE EMBEDDED A MINIMUM OF 1 ¾ INCH INTO CONCRETE.

6 - INSTALLATION OF SCREWS INTO HOUSING OF UNIT SHALL BE WITH A MINIMUM SPACING OF 1 INCH, ALL SHALL BE INSTALLED ON THE TOP END OF THE SLOTTED HOLES, WHERE POSSIBLE.

7 - ALL SCREWS AT THE BOTTOM OF THE CLIP ATTACHMENT TO SUPPORTING STRUCTURE SHALL HAVE WASHERS OF 14G OR THICKER GALVANIZED STEEL WITH A MIN. YIELD STRENGTH OF 33 KSI. AND BE AT LEAST ¾ INCH DIAMETER, FOR 155 MPH WIND VELOCITY.

8 - STEEL USED IN THE MANUFACTURE OF THE CLIPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI., BE GALVANIZED IN ACCORDANCE WITH ASTM G90 AFTER FABRICATION.

9 - SUPPORTING ALUMINUM STRUCTURE BEAMS SHALL BE OF 6061 T6 ALLOY FOR THE SCREW CAPACITY TO APPLY.

10 - THIS DRAWING WAS PREPARED BY ALFREDO ARTEAGA JR. AND ASSOCIATES CORP., ALFREDO ARTEAGA JR. P.E., 850 WEST 68TH STREET, HIALEAH, FLORIDA - 33014, CA3886 AND REG. NO. 33070. ALL PARTS OF THIS DRAWING MUST BE USED IN DETERMINING CONNECTIONS TO BE UTILIZED. USE OF THESE SPECIFICATIONS BY THE CONTRACTOR INDICATES HE OR SHE HAS UNDERSTOOD ALL PARTS AND HOLDS HARMLESS THE ENGINEER FOR ANY ERRORS DUE TO IMPROPER USE. FURTHERMORE; THE ENGINEER IS NOT RESPONSIBLE FOR THE FABRICATION OF THE HOLD DOWN CLIP NOR THE COMPONENTS USED IN IT'S INSTALLATION. ANY DEVIATION FROM THESE SPECIFICATIONS OR DETAILS IS STRICTLY PROHIBITED UNLESS PRIOR APPROVAL IS RECIEVED FROM THE ENGINEER, IN WRITING, NO ADDITIONAL CERTIFICATIONS ARE MADE OR IMPLIED BY THESE SPECIFICATIONS OR DRAWING.

11 - UNIT SIZE MAY INCREASE TO 8' X 6' X 6' HIGH AND DOUBLE CLIPS SHALL BE USED EACH CORNER WITH SAME CONNECTORS AS SMALLER UNITS, HOWEVER; MAY NOT BE HIGHER THAN 60' FROM GRADE.

12 - WHEN UNIT IS SUPPORTED BY WOOD, SCREW USED AT THE BOTTOM OF THE CLIP MUST BE SIZE 10G AND BE AT LEAST 1 ½" LONG.

13 - SIZE NO. 12 GALVANIZED SELF DRILLING SCREWS MAY BE USED ON UNITS WHICH ARE INSTALLED NO HIGHER THAN 40' FROM GRADE AND ONLY FOR 146 MPH OR LESS WIND VELOCITY ZONE.

Precision Air and Heat
Cooler By Design

Project Summary
Entire House
Mills Air, Inc.

Job:
Date: 10/7/13
By: Dale, Precision Air

6502 Forest City Rd., Orlando, FL 32810 Phone: (407) 277-1159 Fax: (407) 292-4390 Email: info@millsair.com Web: www.millsair.com License: CAC056779

Project Information

For: Justin Bontstrjor
5127 Monet St., Belle Isle, FL 32812

Notes:

Design Information

Weather: Orlando, FL, US

Winter Design Conditions

Outside db	42	°F
Inside db	68	°F
Design TD	26	°F

Summer Design Conditions

Outside db	93	°F
Inside db	75	°F
Design TD	18	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	44	gr/lb

Heating Summary

Structure	22691	Btuh
Ducts	5006	Btuh
Central vent (0 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	27697	Btuh

Sensible Cooling Equipment Load Sizing

Structure	23778	Btuh
Ducts	6409	Btuh
Central vent (0 cfm)	0	Btuh
Blower	1707	Btuh
Use manufacturer's data	y	
Rate/swing multiplier	1.00	
Equipment sensible load	31894	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	2338	2338
Volume (ft³)	21743	21743
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	116	58

Latent Cooling Equipment Load Sizing

Structure	4114	Btuh
Ducts	1124	Btuh
Central vent (0 cfm)	0	Btuh
Equipment latent load	5238	Btuh
Equipment total load	37132	Btuh
Req. total capacity at 0.70 SHR	3.8	ton

Heating Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN, JANITROL, AMANA DISTI...
Model	DSZC160481A*
AHRI ref	4431870

Efficiency	9.75 HSPF	
Heating input		
Heating output	47000	Btuh @ 47°F
Temperature rise	27	°F
Actual air flow	1567	cfm
Air flow factor	0.057	cfm/Btuh
Static pressure	0.50	in H2O
Space thermostat		

Cooling Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN, JANITROL, AMANA DISTI...
Cond	DSZC160481A*
Coil	CA*F4961*6D*
AHRI ref	4431870

Efficiency	12.5 EER, 15.5 SEER	
Sensible cooling	32900	Btuh
Latent cooling	14100	Btuh
Total cooling	47000	Btuh
Actual air flow	1567	cfm
Air flow factor	0.052	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.86	

Reviewed for Code Compliance
Universal Engineering Sciences

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

Precision Air and Heat
Cooler By Design

Right-J® Worksheet
Entire House
Mills Air, Inc.

Job:
Date: 10/7/13
By: Dale, Precision Air

6502 Forest City Rd., Orlando, FL 32810 Phone: (407) 277-1159 Fax: (407) 292-4390 Email: info@millsair.com Web: www.millsair.com License: CAC056779

							Entire House 231.5 ft				Main 231.5 ft			
1	Room name													
2	Exposed wall						9.3 ft				9.3 ft		heat/cool	
3	Room height										1.0	x	2338.0 ft	
4	Room dimensions										2338.0 ft²			
5	Room area						2338.0 ft²							
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.72	2.86	698	660	2453	1887	698	660	2453	1887
.	└─G	2A-2om	0.340	n	8.84	10.34	38	0	334	391	38	0	334	391
.	W	13A-4ocs	0.143	e	3.72	2.86	302	194	720	554	302	194	720	554
.	├─G	2A-2om	0.340	e	8.84	26.16	12	4	106	314	12	4	106	314
11	├─G	2A-2om	0.340	e	8.84	32.97	57	0	501	1870	57	0	501	1870
	├─G	2A-2om	0.340	e	8.84	32.97	16	0	141	528	16	0	141	528
	└─D	11D0	0.390	e	10.14	12.17	24	24	243	292	24	24	243	292
	W	13A-4ocs	0.143	s	3.72	2.86	702	667	2481	1908	702	667	2481	1908
	├─G	2A-2om	0.340	s	8.84	12.34	16	16	141	197	16	16	141	197
	└─G	2A-2om	0.340	s	8.84	12.83	19	13	167	243	19	13	167	243
	W	13A-4ocs	0.143	w	3.72	2.86	451	349	1299	999	451	349	1299	999
	├─G	2A-2om	0.340	w	8.84	32.97	38	0	334	1246	38	0	334	1246
	└─G	2A-2omd	0.620	w	16.12	37.51	64	0	1032	2401	64	0	1032	2401
	P	12B-0sw	0.097	-	2.52	1.78	153	153	387	274	153	153	387	274
	C	16B-30ad	0.032	-	0.83	1.75	2338	2338	1945	4092	2338	2338	1945	4092
	F	22A-cpm	1.180	-	30.68	0.00	2338	232	7102	0	2338	232	7102	0
6	c) AED excursion									0				0
	Envelope loss/gain								19387	17195			19387	17195
12	a) Infiltration								3304	1144			3304	1144
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					8			1840	8			1840
		Appliances/other								3600				3600
	Subtotal (lines 6 to 13)								22691	23778			22691	23778
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								22691	23778			22691	23778
15	Duct loads						22%	27%	5006	6409	22%	27%	5006	6409
	Total room load								27697	30188			27697	30188
	Air required (cfm)								1567	1567			1567	1567

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

Precision Air and Heat
Cooler By Design

Manual S Compliance Report
Entire House
Mills Air, Inc.

Job:
Date: 10/7/13
By: Dale, Precision Air

6502 Forest City Rd., Orlando, FL 32810 Phone: (407) 277-1159 Fax: (407) 292-4390 Email: info@millsair.com Web: www.millsair.com License: CAC056779

Project Information

For: Justin Bontstrjor
5127 Monet St., Belle Isle, FL 32812

Cooling Equipment

Design Conditions

Outdoor design DB:	93.0°F	Sensible gain:	31894	Btuh	Entering coil DB:	76.9°F
Outdoor design WB:	76.0°F	Latent gain:	5238	Btuh	Entering coil WB:	63.3°F
Indoor design DB:	75.0°F	Total gain:	37132	Btuh		
Indoor RH:	50%	Estimated airflow:	1567	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
Manufacturer: Goodman Mfg. Model: DSZC160481A*+CA*F4961*6D*

Actual airflow:	1567	cfm		
Sensible capacity:	23800	Btuh	75% of load	
Latent capacity:	10200	Btuh	195% of load	
Total capacity:	34000	Btuh	92% of load	SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	42.0°F	Heat loss:	27697	Btuh	Entering coil DB:	67.7°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
Manufacturer: Goodman Mfg. Model: DSZC160481A*+CA*F4961*6D*

Actual airflow:	1567	cfm				
Output capacity:	34000	Btuh	123% of load		Capacity balance:	34 °F
Supplemental heat required:	0	Btuh			Economic balance:	-99 °F

Backup equipment type: Elec strip
Manufacturer: Model:

Actual airflow:	1567	cfm				
Output capacity:	0	kW	0% of load	Temp. rise:	0	°F

Reviewed for Code Compliance
Universal Engineering Sciences

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

6502 Forest City Rd., Orlando, FL 32810 Phone: (407) 277-1159 Fax: (407) 292-4390 Email: info@millsair.com Web: www.millsair.com License: CAC056779

Project Information

For: Justin Bontstrjor
5127 Monet St., Belle Isle, FL 32812

Design Conditions

Location:
Orlando, FL, US
Elevation: 105 ft
Latitude: 28°N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	42	93
Daily range (°F)	-	17 (M)
Wet bulb (°F)	-	76
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	68	75
Design TD (°F)	26	18
Relative humidity (%)	50	50
Moisture difference (gr/lb)	19.5	43.6

Infiltration:	
Method	Simplified
Construction quality	Average
Fireplaces	0

Construction descriptions	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
13A-4ocs: Blk wall, stucco ext, r-4 ext bd ins, 8" thk, 1/2" gypsum board int fnsh	n	660	0.143	4.0	3.72	2453	2.86	1887
	e	194	0.143	4.0	3.72	720	2.86	554
	s	667	0.143	4.0	3.72	2481	2.86	1908
	w	349	0.143	4.0	3.72	1299	2.86	999
	all	1870	0.143	4.0	3.72	6952	2.86	5347
Partitions								
12B-0sw: Frm wall, r-11 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm		153	0.097	11.0	2.52	387	1.78	274
Windows								
2A-2om: 2 glazing, clr outr, air gas, mtl no brk frm mat, clr low-e innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.32); 50% blinds 45°, dark; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (6.3 ft window ht, 1 ft sep.)	n	38	0.340	0	8.84	334	10.3	391
	e	57	0.340	0	8.84	501	33.0	1870
	s	19	0.340	0	8.84	167	12.8	243
	w	38	0.340	0	8.84	334	33.0	1246
	all	151	0.340	0	8.84	1337	24.8	3749
2A-2om: 2 glazing, clr outr, air gas, mtl no brk frm mat, clr low-e innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.32); 50% blinds 45°, dark; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (1 ft window ht, 0.5 ft sep.)	e	12	0.340	0	8.84	106	26.2	314
2A-2om: 2 glazing, clr outr, air gas, mtl no brk frm mat, clr low-e innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.32); 50% blinds 45°, dark; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (8 ft window ht, 1 ft sep.)	e	16	0.340	0	8.84	141	33.0	528
	w	64	0.620	0	16.1	1032	37.5	2401
	all	80	0.620	0	14.7	1173	36.6	2928
2A-2om: 2 glazing, clr outr, air gas, mtl no brk frm mat, clr low-e innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.32); 50% blinds 45°, dark; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (4 ft window ht, 1 ft sep.)	s	16	0.340	0	8.84	141	12.3	197
Doors								
11D0: Door, wd sc type	e	24	0.390	0	10.1	243	12.2	292

Ceilings							
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh	2338	0.032	30.0	0.83	1945	1.75	4092
Floors							
22A-cpm: Bg floor, heavy dry or light damp soil, on grade depth, carpet flr fnsh	232	1.180	0	30.7	7102	0	0

Precision Air and Heat
Cooler By Design

Building Analysis
Entire House
Mills Air, Inc.

Job:
Date: 10/7/13
By: Dale, Precision Air

6502 Forest City Rd., Orlando, FL 32810 Phone: (407) 277-1159 Fax: (407) 292-4390 Email: info@millsair.com Web: www.millsair.com License: CAC056779

Project Information

For: Justin Bontstrjor
5127 Monet St., Belle Isle, FL 32812

Design Conditions

Location:
Orlando, FL, US
Elevation: 105 ft
Latitude: 28°N

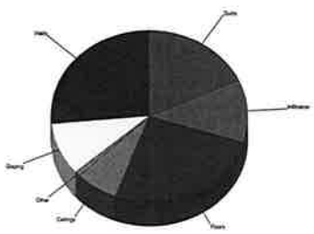
Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	42	93
Daily range (°F)	-	17 (M)
Wet bulb (°F)	-	76
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	68	75
Design TD (°F)	26	18
Relative humidity (%)	50	50
Moisture difference (gr/lb)	19.5	43.6

Infiltration:	
Method	Simplified
Construction quality	Average
Fireplaces	0

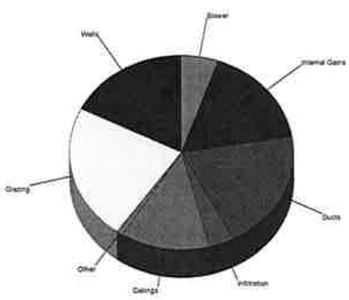
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.6	7339	26.5
Glazing	10.6	2757	10.0
Doors	10.1	243	0.9
Ceilings	0.8	1945	7.0
Floors	3.0	7102	25.6
Infiltration	1.5	3304	11.9
Ducts		5006	18.1
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	
Total		**27697**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.8	5621	17.6
Glazing	27.7	7189	22.5
Doors	12.2	292	0.9
Ceilings	1.8	4092	12.8
Floors	0	0	0
Infiltration	0.5	1144	3.6
Ducts		6409	20.1
Ventilation		0	0
Internal gains		5440	17.1
Blower		1707	5.4
Adjustments		0	
Total		**31894**	**100.0**



Latent Cooling Load = 5238 Btuh
Overall U-value = 0.107 Btuh/ft²-°F

Data entries checked.

Precision Air and Heat
Cooler By Design

Load Short Form
Entire House
Mills Air, Inc.

Job:
Date: 10/7/13
By: Dale, Precision Air

6502 Forest City Rd., Orlando, FL 32810 Phone: (407) 277-1159 Fax: (407) 292-4390 Email: info@millsair.com Web: www.millsair.com License: CAC056779

Project Information

For: Justin Bontstrjor
5127 Monet St., Belle Isle, FL 32812

Design Information

	Htg	Clg
Outside db (°F)	42	93
Inside db (°F)	68	75
Design TD (°F)	26	18
Daily range	-	M
Inside humidity (%)	50	50
Moisture difference (gr/lb)	19	44

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make	Goodman Mfg.
Trade	GOODMAN, JANITROL, AMANA DISTI...
Model	DSZC160481A*
AHRI ref	4431870

Efficiency	9.75 HSPF	
Heating input		
Heating output	47000	Btuh @ 47°F
Temperature rise	27	°F
Actual air flow	1567	cfm
Air flow factor	0.057	cfm/Btuh
Static pressure	0.50	in H2O
Space thermostat		

COOLING EQUIPMENT

Make	Goodman Mfg.
Trade	GOODMAN, JANITROL, AMANA DISTI...
Cond	DSZC160481A*
Coil	CA*F4961*6D*
AHRI ref	4431870

Efficiency	12.5 EER, 15.5 SEER	
Sensible cooling	32900	Btuh
Latent cooling	14100	Btuh
Total cooling	47000	Btuh
Actual air flow	1567	cfm
Air flow factor	0.052	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.86	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Main	2338	27697	30188	1567	1567
Entire House	2338	27697	30188	1567	1567
Other equip loads		0	1707		
Equip. @ 1.00 RSM			31894		
Latent cooling			5238		
TOTALS	2338	27697	37132	1567	1567

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

Precision Air and Heat
Cooler By Design

Component Constructions
Entire House
Mills Air, Inc.

Job:
Date: 10/7/13
By: Dale, Precision Air

6502 Forest City Rd., Orlando, FL 32810 Phone: (407) 277-1159 Fax: (407) 292-4390 Email: info@millsair.com Web: www.millsair.com License: CAC056779

Project Information

For: Justin Bontstrjor
5127 Monet St., Belle Isle, FL 32812

Design Conditions

Location:
Orlando, FL, US
Elevation: 105 ft
Latitude: 28°N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	42	93
Daily range (°F)	-	17 (M)
Wet bulb (°F)	-	76
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	68	75
Design TD (°F)	26	18
Relative humidity (%)	50	50
Moisture difference (gr/lb)	19.5	43.6

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	0

Construction descriptions	**Or**	**Area** ft²	**U-value** Btuh/ft²-°F	**Insul R** ft²-°F/Btuh	**Htg HTM** Btuh/ft²	**Loss** Btuh	**Clg HTM** Btuh/ft²	**Gain** Btuh
Walls								
13A-4ocs: Blk wall, stucco ext, r-4 ext bd ins, 8" thk, 1/2" gypsum board int fnsh	n	660	0.143	4.0	3.72	2453	2.86	1887
	e	194	0.143	4.0	3.72	720	2.86	554
	s	667	0.143	4.0	3.72	2481	2.86	1908
	w	349	0.143	4.0	3.72	1299	2.86	999
	all	1870	0.143	4.0	3.72	6952	2.86	5347
Partitions								
12B-0sw: Frm wall, r-11 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm		153	0.097	11.0	2.52	387	1.78	274
Windows								
2A-2om: 2 glazing, clr outr, air gas, mtl no brk frm mat, clr low-e innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.32); 50% blinds 45°, dark; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (6.3 ft window ht, 1 ft sep.)	n	38	0.340	0	8.84	334	10.3	391
	e	57	0.340	0	8.84	501	33.0	1870
	s	19	0.340	0	8.84	167	12.8	243
	w	38	0.340	0	8.84	334	33.0	1246
	all	151	0.340	0	8.84	1337	24.8	3749
2A-2om: 2 glazing, clr outr, air gas, mtl no brk frm mat, clr low-e innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.32); 50% blinds 45°, dark; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (1 ft window ht, 0.5 ft sep.)	e	12	0.340	0	8.84	106	26.2	314
2A-2om: 2 glazing, clr outr, air gas, mtl no brk frm mat, clr low-e innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.32); 50% blinds 45°, dark; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (8 ft window ht, 1 ft sep.)	e	16	0.340	0	8.84	141	33.0	528
	w	64	0.620	0	16.1	1032	37.5	2401
	all	80	0.620	0	14.7	1173	36.6	2928
2A-2om: 2 glazing, clr outr, air gas, mtl no brk frm mat, clr low-e innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.32); 50% blinds 45°, dark; 50% outdoor insect screen; foreground = green grass (0.23); 1 ft overhang (4 ft window ht, 1 ft sep.)	s	16	0.340	0	8.84	141	12.3	197
Doors								
11D0: Door, wd sc type	e	24	0.390	0	10.1	243	12.2	292

Ceilings							
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh	2338	0.032	30.0	0.83	1945	1.75	4092
Floors							
22A-cpm: Bg floor, heavy dry or light damp soil, on grade depth, carpet flr fnsh	232	1.180	0	30.7	7102	0	0

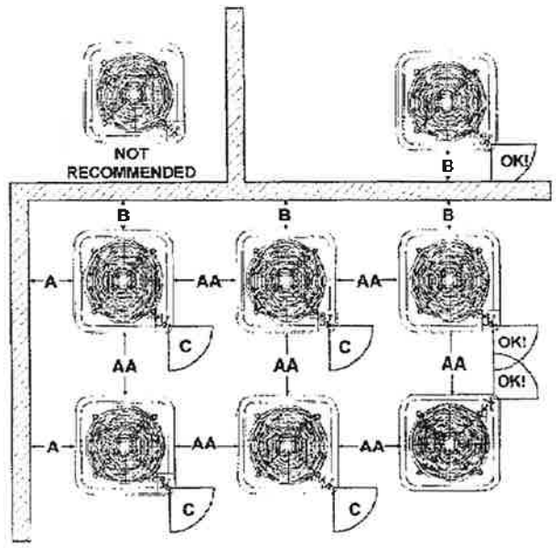
If replacing a condensing unit or air handler, the system must be manufacturer approved and Air Conditioning, Heating and Refrigeration Institute (AHRI) matched. **NOTE:** Installation of unmatched systems is not allowed.

Operating the unit in a structure that is not complete (either as part of new construction or renovation) will void the warranty.

Installation Clearances

Special consideration must be given to location of the condensing unit(s) in regard to structures, obstructions, other units, and any/all other factors that may interfere with air circulation. Where possible, the top of the unit should be completely unobstructed; however, if vertical conditions require placement beneath an obstruction **there should be a minimum of 60 inches between the top of the unit and the obstruction(s).** The specified dimensions meet requirements for air circulation only. Consult all appropriate regulatory codes prior to determining final clearances.

Another important consideration in selecting a location for the unit(s) is the angle to obstructions. Either side adjacent the valves can be placed toward the structure provided the side away from the structure maintains minimum service clearance. Corner installations are strongly discouraged.



Minimum Airflow Clearance				
Model Type	A	B	C	AA
Residential	10"	10"	18"	20"
Light Commercial	12"	12"	18"	24"

This unit can be located at ground floor level or on flat roofs. At ground floor level, the unit must be on a solid, level foundation that will not shift or settle. To reduce the possibility of sound transmission, the foundation slab should not be in contact with or be an integral part of the building foundation. Ensure the foundation is sufficient to support the unit. A concrete slab raised above ground level provides a suitable base.

Rooftop Installations

If it is necessary to install this unit on a roof structure, ensure the roof structure can support the weight and that proper consideration is given to the weather-tight integrity of the roof. Since the unit can vibrate during operation, sound vibration transmission should be considered when installing the unit. Vibration absorbing pads or springs can be installed between the condensing unit legs or frame and the roof mounting assembly to reduce noise vibration.

NOTE: These units require special location consideration in areas of heavy snow accumulation and/or areas with prolonged continuous subfreezing temperatures. Heat pump unit bases have cutouts under the outdoor coil that permit drainage of frost accumulation. Situate the unit to permit free unobstructed drainage of the defrost water and ice.

In more severe weather locations, it is recommended that the unit be elevated to allow unobstructed drainage and air flow. The following elevation minimums are recommended:

Design Temperature	Suggested Minimum Elevation
+15° and above	2 1/2"
-5° to +14°	8"
below -5°	12"

Safe Refrigerant Handling

While these items will not cover every conceivable situation, they should serve as a useful guide.

⚠ WARNING

To avoid possible injury, explosion or death, practice safe handling of refrigerants.

⚠ WARNING

Refrigerants are heavier than air. They can "push out" the oxygen in your lungs or in any enclosed space.To avoid possible difficulty in breathing or death:

- **Never purge refrigerant into an enclosed room or space. By law, all refrigerants must be reclaimed.**
- **If an indoor leak is suspected, throughly ventilate the area before beginning work.**
- **Liquid refrigerant can be very cold. To avoid possible frostbite or blindness, avoid contact and wear gloves and goggles. If liquid refrigerant does contact your skin or eyes, seek medical help immediately.**
- **Always follow EPA regulations. Never burn refrigerant, as poisonous gas will be produced.**

⚠ WARNING

To avoid possible explosion:

- **Never apply flame or steam to a refrigerant cylinder. If you must heat a cylinder for faster charging, partially immerse it in warm water.**
- **Never fill a cylinder more than 80% full of liquid refrigerant.**
- **Never add anything other than R-22 to an R-22 cylinder or R-410A to an R-410A cylinder. The service equipment used must be listed or certified for the type of refrigerant used.**
- **Store cylinders in a cool, dry place. Never use a cylinder as a platform or a roller.**

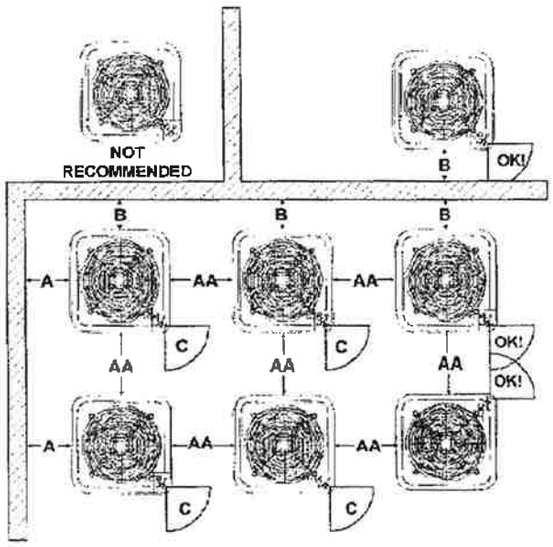
If replacing a condensing unit or air handler, the system must be manufacturer approved and Air Conditioning, Heating and Refrigeration Institute (AHRI) matched. **NOTE:** Installation of unmatched systems is not allowed.

Operating the unit in a structure that is not complete (either as part of new construction or renovation) will void the warranty.

Installation Clearances

Special consideration must be given to location of the condensing unit(s) in regard to structures, obstructions, other units, and any/all other factors that may interfere with air circulation. Where possible, the top of the unit should be completely unobstructed; however, if vertical conditions require placement beneath an obstruction **there should be a minimum of 60 inches between the top of the unit and the obstruction(s).** The specified dimensions meet requirements for air circulation only. Consult all appropriate regulatory codes prior to determining final clearances.

Another important consideration in selecting a location for the unit(s) is the angle to obstructions. Either side adjacent the valves can be placed toward the structure provided the side away from the structure maintains minimum service clearance. Corner installations are strongly discouraged.



Minimum Airflow Clearance				
Model Type	A	B	C	AA
Residential	10"	10"	18"	20"
Light Commercial	12"	12"	18"	24"

This unit can be located at ground floor level or on flat roofs. At ground floor level, the unit must be on a solid, level foundation that will not shift or settle. To reduce the possibility of sound transmission, the foundation slab should not be in contact with or be an integral part of the building foundation. Ensure the foundation is sufficient to support the unit. A concrete slab raised above ground level provides a suitable base.

Rooftop Installations

If it is necessary to install this unit on a roof structure, ensure the roof structure can support the weight and that proper consideration is given to the weather-tight integrity of the roof. Since the unit can vibrate during operation, sound vibration transmission should be considered when installing the unit. Vibration absorbing pads or springs can be installed between the condensing unit legs or frame and the roof mounting assembly to reduce noise vibration.

NOTE: These units require special location consideration in areas of heavy snow accumulation and/or areas with prolonged continuous subfreezing temperatures. Heat pump unit bases have cutouts under the outdoor coil that permit drainage of frost accumulation. Situate the unit to permit free unobstructed drainage of the defrost water and ice.

In more severe weather locations, it is recommended that the unit be elevated to allow unobstructed drainage and air flow. The following elevation minimums are recommended:

Design Temperature	Suggested Minimum Elevation
+15° and above	2 1/2"
-5° to +14°	8"
below -5°	12"

Safe Refrigerant Handling

While these items will not cover every conceivable situation, they should serve as a useful guide.

⚠ WARNING

To avoid possible injury, explosion or death, practice safe handling of refrigerants.

⚠ WARNING

Refrigerants are heavier than air. They can "push out" the oxygen in your lungs or in any enclosed space.To avoid possible difficulty in breathing or death:

- **Never purge refrigerant into an enclosed room or space. By law, all refrigerants must be reclaimed.**
- **If an indoor leak is suspected, throughly ventilate the area before beginning work.**
- **Liquid refrigerant can be very cold. To avoid possible frostbite or blindness, avoid contact and wear gloves and goggles. If liquid refrigerant does contact your skin or eyes, seek medical help immediately.**
- **Always follow EPA regulations. Never burn refrigerant, as poisonous gas will be produced.**

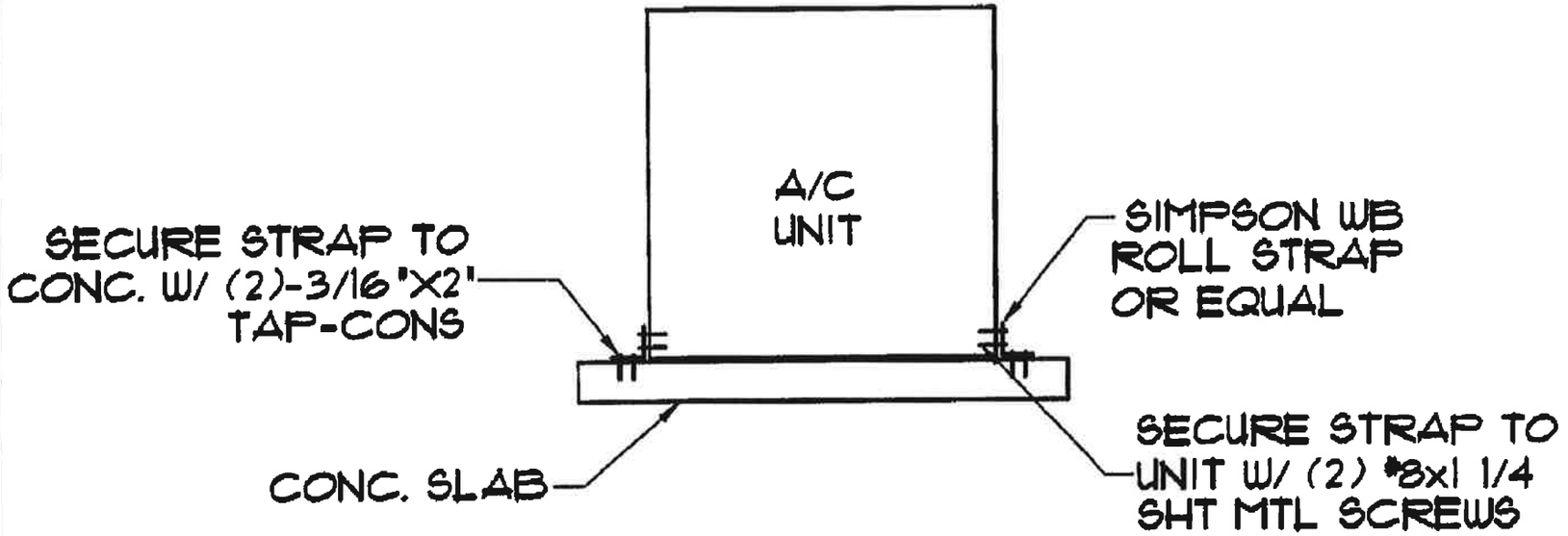
⚠ WARNING

To avoid possible explosion:

- **Never apply flame or steam to a refrigerant cylinder. If you must heat a cylinder for faster charging, partially immerse it in warm water.**
- **Never fill a cylinder more than 80% full of liquid refrigerant.**
- **Never add anything other than R-22 to an R-22 cylinder or R-410A to an R-410A cylinder. The service equipment used must be listed or certified for the type of refrigerant used.**
- **Store cylinders in a cool, dry place. Never use a cylinder as a platform or a roller.**

407-834-1515

Precision Air and Heat



A/C CONNECTION TO PAD DETAIL

For Belle Isle Change out

PRECI45 OP ID: LD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/10/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Main Street America Group - So
Southern Region
Po Box 2027
Keene, NH 03431
Northeast Agencies Inc

Phone:
Fax:

CONTACT NAME: Northeast Agencies Svc Ctr
PHONE (A/C, No, Ext): 866-676-3849 FAX (A/C, No): 866-332-4776
E-MAIL ADDRESS: servicecenter@msagroup.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Old Dominion Insurance Co	40231
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Precision Air and Heat Inc
200 Maitland Avenue Suite 202
Altamonte Springs, FL 32701

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC			MPZ6558B	06/23/2013	06/23/2014	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 500,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS HIRED AUTOS SCHEDULED AUTOS NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $
	UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N N / A If yes, describe under DESCRIPTION OF OPERATIONS below						WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

City of Belle Isle
1600 Nella Ave
Belle Isle, FL 32809

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Loralie Daman

10-19-2012

JEFF ATWATER
CHIEF FINANCIAL OFFICER

STATE OF FLORIDA
DEPARTMENT OF FINANCIAL SERVICES
DIVISION OF WORKERS' COMPENSATION

* * CERTIFICATE OF ELECTION TO BE EXEMPT FROM FLORIDA WORKERS' COMPENSATION LAW * *

CONSTRUCTION INDUSTRY EXEMPTION

This certifies that the individual listed below has elected to be exempt from Florida Workers' Compensation law.

EFFECTIVE DATE: 10/19/2012 **EXPIRATION DATE:** 10/19/2014

PERSON: APRCOVIC ANDRIJA

FEIN: 272068115

BUSINESS NAME AND ADDRESS:

PRECISION AIR AND HEAT INC
200 MAITLAND AVE. 202
ALTAMONTE SPRINGS FL 32701

SCOPES OF BUSINESS OR TRADE:

1- HEATING, VENTILATION, AIR-COND

IMPORTANT: Pursuant to Chapter 440 . 05(14), F.S., an officer of a corporation who elects exemption from this chapter by filing a certificate of election under this section may not recover benefits or compensation under this chapter. Pursuant to Chapter 440.05(12), F.S., Certificates of election to be exempt... apply only within the scope of the business or trade listed on the notice of election to be exempt. Pursuant to Chapter 440.05(13), F.S., Notices of election to be exempt and certificates of election to be exempt shall be subject to revocation if, at any time after the filing of the notice or the issuance of the certificate, the person named on the notice or certificate no longer meets the requirements of this section for issuance of a certificate. The department shall revoke a certificate at any time for failure of the person named on the certificate to meet the requirements of this section.

QUESTIONS? (850) 413-1609

DWC-252 CERTIFICATE OF ELECTION TO BE EXEMPT REVISED 01-11

AC# 6163835

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12061500703

DATE	BATCH NUMBER	LICENSE NBR
06/15/2012	118204237	CAC1816604

The CLASS B AIR CONDITIONING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2014

APRCOVIC, ANDRIJA
PRECISION AIR AND HEAT INC
200 MAITLAND AVENUE APT #202
ALTAMONTE SPRINGS FL 32701

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

Altamonte Springs

City of Altamonte Springs
225 Newburyport Avenue
Altamonte Springs, Florida 32701-3697
407-571-8116

Altamonte Springs

BUSINESS TAX RECEIPT

Provision: Ordinance No. 1570-07

Business Control No.: 0028283

Business Name: PRECISION AIR AND HEAT
PRECISION AIR AND HEAT, INC

Expires: September 30, 2014

Business Address: 200 MAITLAND AVE 202
ALTAMONTE SPRINGS FL 32701

RECEIPT NO.	CLASS DESCRIPTION	FEE	PENALTY
14-00110421	CONTRACTORS-HEATING &/OR AIR CONDITION	$ 120.75	$ 0.00
14-00110422	SERVICE/REPAIR-ALL OTHERS NOT SPECIFIED	$ 90.30	$ 0.00
14-00110423	SEMINOLE COUNTY REGULATED	$ 45.00	$ 0.00
Restrictions:	HOME OCCUPATION RESTRICTIONS APPLY-OFFICE ONLY		

Erin Donnell
City Clerk

WARNING: THIS DOCUMENT IS PRINTED ON SECURITY WATERMARK PAPER AND HAS A SECURITY BACKGROUND. DO NOT ACCEPT WITHOUT VERIFYING THE PRESENCE OF THE WATERMARK.

THE DOCUMENT FACE CONTAINS A SECURITY BACKGROUND. THE FACE CONTAINS A SPECIAL LINE WITH TEXT "CITY OF ALTAMONTE SPRINGS".

VOID WITHOUT WATERMARK OR IF ALTERED OR ERASED