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**American Standard**  
HEATING & AIR CONDITIONING



**REQUEST FOR PROPOSAL**

**FOR**

**Heating and Cooling Replacement**

**Requested  
by**

**HOLIDAY ISLAND SUBURBAN IMPROVEMENT DISTRICT  
110 Woodsdale Drive  
Holiday Island, Arkansas 72631**

**May, 2019**

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**Proposal Submitted  
By**

**KYLE DEATON  
ISLAND AIRCO INC.  
14 WOODSDALE DR.  
HOLIDAY ISLAND, AR**

**06/05/2019**  
Date

B. Deadlines and Bid Requirements

B.1: The bid package should be placed in a 9"x13" manila envelope. The outside of the envelope should be marked to the District Manager:

Upper left-hand corner:

**Proposal for Heating and Cooling Replacement**

Lower left-hand corner:

Submitted by:

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Envelope should be marked:

**SEALED BID  
DO NOT OPEN**

B.2: Bids will be accepted at the District Administrative Office, 110 Woodsdale Drive, Holiday Island, Arkansas 72631 until 2:00 pm Friday, June 14, 2019; at which time each bid will be publicly opened and read aloud.

B.3: All bids will be for total price, taxes included. Bid will also reflect estimated date of completion.

III. BID SCHEDULE

Location	Location	Bid Amount
The Barn	All-inclusive (except for any necessary electrical supply upgrades) in providing a functional heating / cooling system capable of handling the predicted seasonal loads.	\$ <u>34,944.25</u>
The Barn	Electrical supply upgrades	\$ <u>UNKNOWN</u>

Total Bid: \$ 34,944.25 total

The above bid price will be valid for a period of ninety (90) days after bid opening.

Estimated date of completion: WEEK OF July 8TH  
OR 2 weeks After APPROVAL



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**Please describe the proposed heating and cooling system being proposed for "The Barn":**

The system that Island Airco is proposing for "The Barn" is a Samsung Mini Split system. We would be installing 11 Tons of air distributed evenly throughout the building using two 3 Ton mini split system and four 2 Ton mini split systems. We will have a total of 6 indoor heat units and 6 outdoor units. The building will be split into two halves. The "left side" of the building will have one 3 Ton and two 2 Tons and one thermostat, and the same application will be applied on the right side. There will be refrigerant line sets ran to each unit that we will be hiding in the ceiling of the lower level on the left, and will not be exposed to the inside on the right.

**Please briefly describe how the proposed heating and cooling solution would be superior in this particular application:**

After performing a Manual J load calculation on the building in the past, it shows that we need just over 10 Tons of air to control the space. Also, after working on and being familiar with the property we know that 11 tons is sufficient to heat and cool the space. The application that is currently there is a very low efficiency system and does not have balanced duct work throughout the space. The mini splits that we are proposing will be 17-21 SEER systems (2 ton-17 3 ton-21) and will use a fraction of the energy the current systems are. With the location of the 6 head units engineered by myself, Bobby Deaton, and Lawrence Blood a couple of months ago, we showed Lawrence that the locations we will be putting the units and it allows us to provide balanced comfort in each area of the building. I have put black dots on the google earth image you provided to give a "Ball Park" visual of where the indoor units and outdoor units will be located. Disclaimer: Also mentioned during walk through with Lawrence, the bath room was not discussed and I did not see it specifically mentioned in the bid request. It is not proposed for our number.

Signed by: Kyle Deaton  Date: 6/5/19

Title: CERTIFIED COMFORT CONSULTANT

Company Name: ISLAND AIRCO INC

Address: 14 WOODSDALE DR

HOLIDAY ISLAND, AR 72631

PLEASE ATTACH ANY SPECIFICATIONS AND ADDITIONAL INFORMATION

Next 2 pages

# QUANTUM 17 SEER



MODEL	INDOOR UNIT	AR09KSPFDWQNCV	AR12KSPFDWQNCV	AR18KSPFDWQNCV	AR24KSPFDWQNCV
	OUTDOOR UNIT	AR09KSPFDWQXCX	AR12KSPFDWQXCX	AR18KSPFDWQXCX	AR24KSPFDWQXCX
PERFORMANCE	COOLING CAPACITY	9,000 Btu/h	12,000 Btu/h	18,000 Btu/h	22,000 Btu/h
	COOLING RANGE	3,000 - 11,260 Btu/h	3,000 - 13,500 Btu/h	5,500 - 20,500 Btu/h	6,100 - 27,300 Btu/h
	HEATING CAPACITY	11,000 Btu/h	13,600 Btu/h	21,000 Btu/h	24,000 Btu/h
	HEATING RANGE	4,000 - 12,800 Btu/h	4,000 - 14,500 Btu/h	4,100 - 23,200 Btu/h	4,400 - 28,000 Btu/h
	SEER / EER	17.00 / 12.50	17.00 / 10.50	17.00 / 11.46	17.00 / 10.48
	COP	3.62	3.26	3.44	3.07
POWER	HSPF	9.00	8.50	9.00	9.00
	VOLT / PHASE / Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
	MAX. BREAKER	15 A	15 A	20	25 A
INDOOR UNIT DIMENSIONS	MCA	10.5 A	10.5 A	14.5 A	19 A
	WIDTH	32 1/4 in.	32 1/4 in.	41 15/16 in.	41 15/16 in.
	HEIGHT	11 1/4 in.	11 1/4 in.	11 3/4 in.	11 3/4 in.
	DEPTH	8 7/16 in.	8 7/16 in.	9 1/16 in.	9 1/16 in.
OUTDOOR UNIT DIMENSIONS	WEIGHT	18.08 lbs.	18.08 lbs.	25.35 lbs.	25.35 lbs.
	WIDTH	31 1/8 in.	31 1/8 in.	34 5/8 in.	34 5/8 in.
	HEIGHT	21 9/16 in.	21 9/16 in.	25 1/8 in.	31 9/32 in.
	DEPTH	11 1/4 in.	11 1/4 in.	12 3/16 in.	12 3/16 in.
OPERATING TEMPERATURE	WEIGHT	62.83 lbs.	62.83 lbs.	95.90 lbs.	115.74 lbs.
	COOLING	14 ≤ T ≤ 115°F	14 ≤ T ≤ 115°F	14 ≤ T ≤ 115°F	14 ≤ T ≤ 115°F
PIPE CONNECTIONS	HEATING	5 ≤ T ≤ 75°F	5 ≤ T ≤ 75°F	5 ≤ T ≤ 75°F	5 ≤ T ≤ 75°F
	HIGH SIDE / LOW SIDE	1/4 in. / 3/8 in.	1/4 in. / 3/8 in.	1/4 in. / 1/2 in.	1/4 in. / 5/8 in.
	MAX. LENGTH	50 ft.	50 ft.	98 ft.	98 ft.
REFRIGERANT	MAX. VERTICAL	26 ft.	26 ft.	49 ft.	49 ft.
	R410A CHARGE	31.7 oz.	31.7 oz.	40.6 oz.	51.2 oz.
EVAPORATOR FAN	CHARGED FOR	25 ft.	25 ft.	25 ft.	25 ft.
	CFM (L / M / H / T)	270 / 300 / 330 / 355	300 / 330 / 360 / 390	400 / 480 / 520 / 570	420 / 490 / 570 / 640
CONDENSER FAN	CFM (MAX.)	1,400	1,400	1,700	1,950
CERTIFICATIONS	ENERGY STAR® CERTIFIED		-	-	-

Warranty - 7 year compressor, 5 year parts  
Product registration required.  
Conditions apply.



The AHRI Certified® mark indicates Samsung's participation in the AHRI Certification program. For verification of individual certified products, go to [www.ahridirectory.org](http://www.ahridirectory.org).

Select Models are ENERGY STAR® Labeled.

Proper sizing and installation of equipment is critical to achieve performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit [www.energystar.gov](http://www.energystar.gov).



Intertek

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

# 2 TON UNITS



# MAX



MODEL	INDOOR UNIT	AQN36VFUAGM/CV
	OUTDOOR UNIT	AQX36VFUAGM/CV
PERFORMANCE	COOLING CAPACITY	33,000 Btu/h
	COOLING RANGE	9,000 - 38,000 Btu/h
	HEATING CAPACITY	34,000 Btu/h
	HEATING RANGE	9,000 - 45,000 Btu/h
	SEER / EER	18.00 / 11.00
	COP	3.11
POWER	HSPF	9.00
	VOLT / PHASE / Hz	208-230 / 1 / 60
	MAX. BREAKER	30 A
INDOOR UNIT DIMENSIONS	MCA	19.5 A
	WIDTH	50 3/8 in.
	HEIGHT	13 9/16 in.
	DEPTH	10 in.
OUTDOOR UNIT DIMENSIONS	WEIGHT	40.12 lbs.
	WIDTH	36 11/16 in.
	HEIGHT	45 7/8 in.
	DEPTH	14 3/4 in.
OPERATING TEMPERATURE	WEIGHT	191.80 lbs.
	COOLING	14 ≤ T ≤ 115 °F
PIPE CONNECTIONS	HEATING	5 ≤ T ≤ 75 °F
	HIGH SIDE / LOW SIDE	1/4 in. / 5/8 in.
	MAX. LENGTH	164 ft.
REFRIGERANT	MAX. VERTICAL	98 ft.
	R410A CHARGE	88.1 oz.
EVAPORATOR FAN	CHARGED FOR	25 ft.
	CFM (L / M / H / T)	580 / 750 / 920 / -
CONDENSER FAN	CFM (MAX.)	2,300
CERTIFICATIONS	ENERGY STAR® CERTIFIED	-



Product registration required. Conditions apply.



The AHRI Certified® mark indicates Samsung's participation in the AHRI Certification program. For verification of individual certified products, go to [www.ahridirectory.org](http://www.ahridirectory.org).

MAX models manufactured after 1/1/2015 qualify for the enhanced 10 Year Warranty with product registration. Conditions apply.

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3 TON UNITS

