MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2024-352
Item to be Scouted	HVAC Ductless Wall Mounted Split Units
Days to be scouted	30
Response Due By	12/12/2024
Description	BABAA-compliant HVAC Ductless Wall Mounted Split Units (2.5 Ton Capacity) for use in an addition and remodel of existing spaces within an existing Hospital located in Iowa.
Notify Requester Immediately	No
State item to be used in	Iowa

Section 2: Technical Information

Type of supplier being sought	Other
Details	Distribution/Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Mechanical / Electronic Assembly Domestic components in each of the BABAA compliant manufactured products must exceed 55% of the total component cost and be assembled in the United States.
Provide dimensions / size / tolerances / performance specifications for the item	Single zone ductless mini split units 2.5 ton cooling capacity. See attached construction project technical specification.
List required materials needed to make the product, including materials of product components	See attached construction project technical specification.
Are there applicable certification requirements?	No
Are there applicable regulations?	Yes
Details	Build America, Buy America Act (BABAA) compliant: Must be able to submit BABAA manufactured product self-certification manufactured product letter for the product that details a compliant product.
Are there any other stndards, requirements, etc.?	No
NAICS 1	
NAICS 2	
Additional Technical Comments	See attached construction project technical specification. Manufacturers shall specialize and have experience in the manufacturing of the similar HVAC systems.

Section 4: Business Information

Estimated potential business volume	one-time purchase of 5 units

Estimated target price / unit cost information (if unavailable explain)	Best available, as this is related to BABA, acceptable pricing is to be determined in negotiation.
When is it needed by?	End Q2 - 2025 - Onsite approx. June 2025.
Describe packaging requirements	Best available to be delivered undamaged. Specific requirements to be determined in negotiation.
Where will this item be shipped?	Iowa

Additional Comments

Is there other information you would like to include?	Nationwide Search Provide written documentation in response to the Supplier Scouting request of being a current Build America Buy America Act compliant electrical equipment manufacturer with experience manufacturing the system components meeting the product performance requirements. For all BABA related questions please contact: Joe Edmondson joe.edmondson@okalliance.com

SECTION 238126
DUCTLESS SPLIT SYSTEM UNITS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Single zone unit

1.02 RELATED SECTIONS

A. Specification Section 23 0993 - Sequence of Operation for HVAC Controls

B. Specification Section 23 2300 - Refrigerant Piping

1.03 REFERENCES

A. AHRI 210/240 - Standard for Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment

B. AHRI 270 - Standard for Sound Performance Rating of Outdoor Unitary Equipment

C. AHRI 365 - Standard for Performance Rating of Commercial and Industrial Unitary Air-Conditioning Condensing Units

D. ASHRAE 15 - Safety Standard for Refrigeration Systems

E. ASHRAE 90.1 - Energy Standard for Buildings except Low-Rise Residential Buildings

F. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum)

G. NEMA MG 1 - Motors and Generators

H. NFPA 70 - National Electrical Code

I. UL 207 - Refrigerant-Containing Components and Accessories, Non-Electrical

J. UL 1995 - Heating and Cooling Equipment

1.04 SUBMITTALS

A. Product Data: Provide typical catalog of information including rated capacities, furnished specialties, accessories, and arrangements.

B. Shop Drawings:
   1. Indicate cross sections of cabinets, grilles, bracing and reinforcing, and typical elevations.
   2. Submit schedules of equipment and enclosures typically indicating length and number of pieces of element and enclosure, and comparison of specified heat required to actual heat output provided.
   3. Indicate mechanical and electrical service locations and requirements.

C. Manufacturer's Instructions: Indicate installation instructions and recommendations.

D. Project Record Documents: Record actual locations of components and locations of access doors in radiation cabinets required for access or valve.

E. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listings.

F. Warranty: Submit manufacturer's warranty and ensure forms have been completed in owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA70, Article100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

C. Energy-Efficiency Ratio and Coefficient of Performance: Equal to or greater than prescribed by ASHRAE90.1.

D. The system components must be tested in accordance with the AHRI standard that applies to the particular component. All outside unit sound data presented must be determined using AHRI 270 methods.

1.06 REGULATORY REQUIREMENTS

A. Products Requiring Electrical Connection: Listed and classified by Underwriters' Laboratories, Inc. or ETL, as suitable for the purpose specified and indicated.

1.07 WARRANTY

A. Provide five-year manufacturer's parts and defects warranty from time of installation.

PART 2 PRODUCTS

2.01 SINGLE ZONE SYSTEM

A. Manufacturers
   1. Samsung
   2. Daikin
   3. LG
   4. Mitsubishi
   5. Engineer approved equal.

B. Summary: Cooling only split-system air conditioning consisting of separate evaporator-fan and compressor-condenser components. Units shall be a variable capacity, single zone system.

C. Indoor Units: Self contained fully factory assembled, wired and run tested prior to shipment. Contained within the indoor unit shall be all factory wiring, piping, control circuit board, fan, and fan motor. The unit shall have a self-diagnostic function, 3-minute restart time delay mechanism, an auto restart function, an emergency I test operation. Indoor unit shall be charged with dry air before shipment from factory.
   1. Cabinet:
      a. The wall mounted cabinet shall be of ridged polymer construction, have a white finish, adjustable air discharge, and integral mounting bracket.

   2. Fan:
      a. The indoor unit fan shall be an assembly with a direct driven fan powered by a single motor.
      b. The fan shall be statically and dynamically balanced with permanently lubricated bearings.
      c. The indoor fan shall have no less than three fan speeds.
   3. Filter:
      a. Return air shall be filtered by means of an easily removed, washable, mold resistant filter.

   4. Coil:
      a. The indoor unit coil shall be of nonferrous construction with smooth plate fins on copper tubing.
      b. All tube joints shall have corrosion resistant alloy brazing.
      c. The coils shall be pressure tested at the factory.
      d. A sloped, corrosion resistant condensate pan with drain shall be provided under the coil.
      e. Provide a condensate pump with 20" of lift for discharge of condensate from drain pan.
      f. The condensate pump shall be mounted within the indoor unit casing.
   5. Electrical:
      a. The indoor unit shall be powered and controlled directly from the outdoor unit providing both primary power and integrated, by-directional, digital control signal.
      b. Indoor unit shall have a wall mounted and hard wired thermostat as shown on the drawings.

D. Outdoor Units:

   1. General: Self-contained, packaged, factory assembled, pre-wired unit consisting of cabinet, with compressor and condenser.
   2. Unit Cabinet:
      a. The casing shall be fabricated of galvanized steel with powder coating for corrosion protection. Assembly hardware shall be cadmium plated or stainless steel.
      b. Mounting feet, traverse mounted across the cabinet base pan, welded mount.
   3. Fan:
      a. The unit shall be furnished with a direct drive, propeller type fan.
      b. The condenser fan motor shall be a variable speed, direct current (DC) motor and shall have permanently lubricated bearings.
      c. The fan motor shall be mounted with vibration isolation for quiet operation.
      d. The fan shall be provided with a guard to prevent contact with moving parts.
   4. Coil:
      a. The outdoor unit coil shall be cooper with aluminum fins.
      b. The coil shall be protected with an integral guard.
      c. Refrigerant flow from the outdoor unit to the indoor units shall be independently controlled by means of an electronic linear expansion valve.
      d. Outdoor unit shall be pre-charged with sufficient R-410a to run the system.

e. All refrigerant piping between the outdoor and indoor units shall be sized per the manufacturer's recommendations.

5. Compressor:
   a. The compressor shall be a high performance, hermetic, inverter driven, variable speed, dual rotary type.
   b. The compressor motor shall be direct current (DC) type equipped with a factory supplied and installed inverter drive package.
   c. The outdoor unit shall be equipped with a suction side refrigerant accumulator.
   d. The compressor will be equipped with an internal thermal overload.
   e. The compressor shall be mounted to avoid the transmission of vibration.
   f. The compressor shall have a low ambient kit to allow cooling down to 0 deg F.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install equipment exposed to finished areas after walls and ceilings are finished and painted. Avoid damage.

C. Protection: Provide finished cabinet units with protective covers during balance of construction.

D. Install refrigeration systems in accordance with ASHRAE 15.

E. Mount air-cooled outdoor condensing unit on rooftop supports or ground mounted stand. Refer to manufacturer's instructions for minimum height. See drawings on location.

F. Mechanical contractor shall run control wiring form outdoor unit to each indoor unit. Install wired thermostat as shown on the drawings.

3.02 CLEANING

A. After construction is completed, including painting, clean exposed surfaces of all units. Vacuum clean the coils and inside of the cabinets.

B. Touch-up marred or scratched surfaces of factory-finished cabinets using finish materials furnished by the manufacturer.

C. Install new filters.

END OF SECTION 23 8126