



MISSISSIPPI STATE
UNIVERSITY™

INVITATION FOR BIDS

OFFICE OF PROCUREMENT SERVICES

1. INSTRUCTIONS FOR BIDDERS

- a. Sealed bids will be received in the Office of Procurement Services, Mississippi State University, for the purchase of the items listed herein.
- b. All bids must be received in the Office of Procurement Services on or before the bid opening time and date listed herein. Delivery of bids must be during normal working hours, 8:00 a.m. to 5:00 p.m. CST, except on weekends and holidays when no delivery is possible.
- c. Bidders shall submit their bids either electronically, in Bully Buy, or in a sealed envelope. Bids CANNOT be emailed
 - a. Sealed bids should include the bid number on the face of the envelope as well as the bidders' name and address. Bids should be mailed to : 245 Barr Avenue, 610 McArthur Hall, Mississippi State, MS 39762.
- d. All questions regarding this bid should be directed to the Office of Procurement Services at 662-325-2550.

2. TERMS AND CONDITIONS

- a. All bids should be bid "FOB Destination"
- b. Bidders must comply with all rules, regulations, and statutes relating to purchasing in the State of Mississippi, in addition to the requirements on this form. General Bid Terms and Conditions can be found here:
https://www.procurement.msstate.edu/procurement/bids/Bid_General_Terms_May_2019_V2.pdf
- c. Any contract resulting from this Invitation for Bid shall be in substantial compliance with Mississippi State University's Standard Contract Addendum:
<https://www.contracts.msstate.edu/resources/standard-forms>

Bid Number: MSU2026113

Opening Date: Tuesday November 3, 2026 at 2:00 p.m.

Description: Trane Condenser, Evaporator Coil & TXV Replacement

Vendor Name: _____

Vendor Address: _____

Telephone Number: _____

Email Address: _____

Days the Offer is Firm: _____

Authorized Signature: _____

Name: _____

Title: _____

Item	Quantity	Description	Unit Price	Total Price
1	1	Trane Condenser, Evaporator Coil & TXV Replacement		

Scope of Work

Trane Condenser, Evaporator Coil & TXV Replacement at the Department of Sustainable Bioproducts, Building 11 Franklin, 201 Locksley Way, Starkville, MS. Preferred installation dates December 21, 2026 – January 1, 2027, but is not exclusive. All work must be performed and completed no later than April 15, 2027.

PROJECT:

- Replacement of Existing Trane RAUCC25 and RAUCC60 Condensers.
- Replacement of the evaporator coils in the existing air handling units
- Replacement of all thermostatic expansion valves.

1. General

Provide all labor, supervision, materials, equipment, tools, crane and incidental services required to remove and replace the existing Trane RAUC25 and Trane RAUC60 condenser and existing evaporator coil, including replacement of the associated thermostatic expansion valves.

The completed system shall be started, tested, and commissioned to verify proper operation in accordance with the equipment manufacturer's requirements and applicable codes.

Acceptable refrigerants are R410A and R454B

Warranty shall include one (1) year parts and labor with 2-5 year compressor parts only.

2. Removal of Existing Equipment

- Safely shut down and electrically isolate the existing HVAC system.
- Recover existing refrigerant in accordance with EPA requirements.
- Disconnect existing electrical and control wiring.
- Remove the existing Trane condensers.
- Remove the existing evaporator coils from the existing air handlers.
- Remove the existing thermostatic expansion valves.
- Properly dispose of removed equipment and materials.

3. New Condenser Installation

- Set and secure the new condenser in the existing equipment location.
- Reconnect existing refrigerant piping, with modifications as required.
- Reconnect existing electrical power and grounding.
- Reconnect existing control wiring.
- Provide required fittings, adapters, supports, connectors, and miscellaneous materials necessary for complete installation.
- Verify equipment clearances and service access.
- Level and properly secure the condenser.

4. Evaporator Coil Replacement

Work shall include:

- Remove the existing 25 ton and 60-ton evaporator coils.
- Furnish and install the new replacement evaporator coils.
- Modify or reconnect refrigerant piping as required.
- Reconnect condensate drain piping.

- Provide required coil supports, fittings, insulation, and miscellaneous materials.
- Seal and insulate refrigerant connections as required.
- Verify proper airflow through the new coil.
- Verify that the replacement coil is properly positioned and secured.
- Maintain access for future service and maintenance.

5. Thermostatic Expansion Valve Replacement

Work shall include:

- Remove existing TXVs.
- Furnish and install new thermostatic expansion valves properly sized for the replacement evaporator coil and refrigeration system.
- Install sensing bulbs and secure them in accordance with manufacturer's requirements.
- Properly insulate sensing bulbs where required.
- Braze refrigerant connections using a nitrogen purge.
- Verify proper installation and operation of the TXVs.
- Adjust TXVs as required during system startup and commissioning.

6. Refrigeration System Work

Work shall include:

- Inspect existing refrigerant piping for condition and suitability for reuse.
- Make necessary piping modifications to accommodate the new condenser, evaporator coil, and TXVs.
- Replace existing suction replaceable core filters shells.
- Replace existing liquid line replaceable core filter shells.
- Add isolation valves for each filter shell.
- Replace existing liquid line sight glasses.
- Add liquid line solenoid and coil to prevent refrigerant migration.
- Replace filter-driers as required following the refrigeration-system opening.
- Braze all refrigerant connections using proper nitrogen purge procedures.
- Pressure test the refrigeration system in accordance with manufacturer's requirements.
- Evacuate the system to the manufacturer's specifications.
- Charge the system with the proper refrigerant and quantity.
- Verify proper refrigerant pressures and system operating conditions.

- Leak-check all accessible refrigerant connections.
- Verify proper operation and refrigerant flow through the TXVs.

7. Electrical and Controls

- Verify existing electrical service is suitable for the new condenser.
- Reconnect line-voltage wiring and control wiring
- Verify disconnecting means and overcurrent protection.
- Make minor control wiring modifications required for proper operation.
- Verify operation of applicable system controls and safety devices.

8. Startup and Commissioning

Upon completion of installation:

- Energize and start the HVAC system.
- Verify proper condenser and evaporator operation.
- Verify condenser fan operation.
- Verify compressor operation and rotation, where applicable.
- Verify evaporator airflow.
- Verify refrigerant pressures and temperatures.
- Verify superheat and subcooling.
- Adjust TXVs as required to achieve proper operating conditions.
- Verify voltage and operating amperage.
- Verify system temperature split.
- Verify operation of controls and safety devices.
- Check for refrigerant leaks.
- Check for abnormal vibration, noise, or operating conditions.
- Confirm the complete system is operating within the manufacturer's specified parameters.

9. Cleanup

- Remove all construction debris, packaging, and equipment from the work area.
- Properly dispose of recovered refrigerant and equipment.
- Leave the equipment area clean and ready for normal operation.