MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2026-600
Item to be Scouted	BABA: HVAC unit
Days to be scouted	14
Response Due By	11/18/2026
Description	Equipment type - Packaged gas/electric RTU Nominal cooling capacity - 48,000 BTU/hr (4 tons) Heating input capacity - 127,000 BTU/hr

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	Need commercial off the shelf or manufactured heat pump similar in form. fit. and function to the Mitsubishi 48NR-B481303. The Mitsubishi 48NR-B481303 is a factory-assembled, packaged rooftop heating and cooling unit designed to provide climate control for commercial and institutional buildings. The unit combines mechanical refrigeration, air distribution, and gas-fired heating components within a single outdoor-rated cabinet. The equipment is designed to condition and circulate building air through an integrated system consisting of a refrigerant-based cooling circuit, gas-fired heating assembly, indoor air blower, condenser fan, filtration components, and associated electrical and control systems. The rooftop configuration allows the equipment to be installed outside the conditioned building space, reducing the need for separate indoor mechanical equipment. Conditioned air is distributed through connected ductwork, while the integrated controls regulate heating, cooling, and fan operation based on system demand. Minnesota
Describe the manufacturing processes (elaborate to provide as much detail as possible)	The manufacturing process for a packaged rooftop HVAC unit generally includes the following steps: 1. Cabinet fabrication: Sheet metal is cut, stamped, bent, and formed into the structural cabinet, access panels, and internal equipment supports. 2. Surface preparation and finishing: Metal components receive cleaning, corrosion protection, and protective coatings or paint. 3. Heat exchanger fabrication: Heating and cooling heat-transfer assemblies are manufactured and prepared for installation. 4. Refrigeration system assembly: The compressor, evaporator coil, condenser coil, refrigerant piping, metering devices, and associated components are installed. 5. Heating system assembly: The gas burner, combustion components, heat exchanger, ignition assembly, and gas controls are installed. 6. Air distribution assembly: Indoor blower motors, fan assemblies, filtration components, and associated duct connections are installed. 7. Electrical and controls integration: Wiring harnesses, control boards, sensors, relays, safety switches, and operating controls are installed. 8. Refrigerant charging and leak testing: The refrigeration circuit is evacuated, charged, and inspected for leaks. 9. Final testing and quality control: The completed unit undergoes operational testing, electrical verification, heating and cooling performance checks, and final inspection.
Provide dimensions / size / tolerances / performance specifications for the item	Equipment classification - Packaged dual-fuel rooftop HVAC unit Nominal cooling capacity - 48,000 BTU/hr Rated net cooling capacity - 46,500 BTU/hr Nominal cooling tonnage - 4 tons Gas heating input - 127,000 BTU/hr Gas heating output - 104,000 BTU/hr Gas heating efficiency - 81% AFUE Heat pump capacity at 47°F - 44,500 BTU/hr Heat pump capacity at 17°F - 25,400 BTU/hr Refrigerant - R-454B Refrigerant charge - 10.0 lbs Electrical supply - 208/230V, single-phase, 60 Hz High-stage airflow - 1,600 CFM Low-stage airflow - 1,200 CFM Indoor blower motor - 1 HP Compressor - Two-stage scroll Heating configuration - Gas furnace and electric heat pump Approximate shipping weight - 509 lbs Maximum published efficiency - Up to 15.5 SEER2

List required materials needed to make the product, including materials of product components	Exterior cabinet - Zinc-coated, phosphated, pre-painted steel Base assembly - High-strength composite material and metal support rails Evaporator coil - Copper tubing and aluminum fins Condenser coil - Copper tubing and aluminum fins Furnace heat exchanger - Stainless steel Gas burners - Aluminum-coated steel Refrigerant piping - Copper tubing and brazed connections Compressor - Steel housing, copper windings, and internal mechanical components Indoor blower - Steel fan wheel and electric motor Condenser fan - Aluminum blades and corrosion-resistant steel supports Insulation Fiberglass and foil-faced insulation Electrical controls - Printed circuit boards, copper wiring, relays, sensors, and electrical connectors Drain pan - Molded composite material
Are there applicable certification requirements?	Yes
Certification(s) required	UL
Are there applicable regulations?	No
Are there any other stndards, requirements, etc.?	Yes
Details	AHRI 210, AHRI 270, ANSI Z21.47, ISO 9001, NFPA 90.1, ASHRAE 62.2
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	2 RTU's serving the corridors of the apartment complex.
Estimated target price / unit cost information (if unavailable explain)	Best available. This cannot be provided due to needing a vendors quote, additional cost from roof curb/controls/ freight delivery/ Installation.
When is it needed by?	Immediate
Describe packaging requirements	Individually wrapped/shipped
Where will this item be shipped?	Minneapolis, MN

Additional Comments

Is there other information you would like to include?	Funding: MHFA; Minnesota Housing Finance Agency POC: Nick Hoelscher; nick.h@noorcompanies.com