



**STATE OF ALASKA**  
**Department of Environmental Conservation**  
**Division of Air Quality**

**A Street Air Monitoring HVAC System**  
**RFQ No. 18-603-24**  
**Anchorage, Alaska**

**Date of Issue: July 10, 2023**

**PURPOSE**

The State of Alaska, Department of Environmental Conservation, Division of Air Quality is soliciting quotes for a dedicated heating, ventilation, and air conditioning (HVAC) unit for the A Street air monitoring station in Fairbanks, Alaska, under the Division's Air Monitoring & Quality Assurance (AMQA) Program.

The Procurement Officer for this document is:

Bryant Trujillo, Procurement Specialist 3  
State of Alaska, Department of Administration  
Office of Procurement and Property Management  
Department of Environmental Conservation  
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## Item Description:

The Department of Environmental Conservation (DEC) has received grant funding under the American Rescue Plan (ARP) for adding a dedicated heating, ventilation, and air conditioning (HVAC) unit for the A Street monitoring station in Fairbanks, Alaska. The A Street station is a particulate matter maximum impact site for the Fairbanks area that provides required data crucial to decision-making in a high-profile non-attainment area.

Ensuring adequate heating is necessary to protect the equipment on site and ensure data integrity. The HVAC unit must be either a 120-volt or 240-volt alternating current (AC) forced air unit capable of maintaining stable internal climate control between 20 and 30 degrees Celsius (°C), 68 and 86 degrees Fahrenheit (°F) during typical interior Alaska summer and winter weather conditions (-50°F to +90°F). The HVAC unit must be mounted on, or through a shelter wall, with a minimal interior space requirement, and use no floor space. The unit must have a digital thermostat. The station insulation rating is R-15 with internal dimensions of approximately 6 feet wide, 8 feet long, and 6 feet 6 inches tall (roughly 312 cubic feet). DEC will supply access to the shelter, an installation location for the HVAC, and access to a 120/240V AC power panel for the electrical connection.

## Specifications:

The HVAC unit should meet the following technical specifications:

- The unit must have a 120-volt and/or 240-volt AC electrical interface;
- The unit must be equipped with both a forced air electric heater and air conditioning;
- The unit must be wall-mounted to conserve floor space;
- The unit should be able to maintain a stable temperature within a range of +/- 2.1°C;
- The unit must maintain an internal air temperature range between 20°C and 30°C (approximately from 68°F to 86°F);
- The unit must maintain above temperature and stability during typical Fairbanks, Alaska weather conditions (estimated to be -50°F in the Winter to +90°F in the Summer);
- Ensure the above is supplied in an approximately 312 cubic foot modular enclosure with R-15 insulation;
- The unit must be weather resistant to prevent water infiltration and corrosion resulting from rain, snow, and ice common to the geographical area;
- The unit must be tamper resistant and be able to withstand periodic moderate impacts (i.e., an impact from a baseball or football);
- The unit must be equipped with a function that drains condensate away from the supplied enclosure;
- The unit must have replaceable air filtration;
- The unit should be designed to minimize the impact of noise in the surrounding environment;
- The unit must be supplied with a digital thermostat capable of maintaining the above-noted conditions; and

- The capability to interface with a hard-wired Ethernet connection and/or through wireless Wi-Fi communications is preferred but not required.

Comparable model examples include an appropriately sized one-ton Bard W12AB-K02 or similar ICEcube vertical mount AC enclosure.



The above-noted picture is for reference purposes only and is not a direct replacement for the requested HVAC unit. Like the pictured component, the HVAC unit will be a self-contained device mounted on the shelter's exterior; no appreciable space should be consumed in the shelter's interior. No backup power is required in this requested HVAC system.

To DEC's satisfaction, the contractor shall provide the item and perform the one-year warranty/maintenance support included in the purchase. The Contractor shall be responsible for all communications regarding the progress of maintenance/services performed and shall discuss with the DEC any issues, recommendations, and decisions related to the contract. The Contractor will be the sole point of contact on all matters related to the purchase.

Questions regarding this document shall be addressed in writing to the Procurement Officer and sent to the following E-mail address: [DECDA\\$PROCUREMENT@alaska.gov](mailto:DECDA$PROCUREMENT@alaska.gov).