

**Solicitation:**

The State of Hawaii, Department of Health is requesting the replacement/retrofit of two micro channel condenser coils to be replaced with new custom made copper tube-and aluminum fin coils on an external HVAC single Packaged (PAC) unit identified by the State as "PAC-8", located at Uluakupu 2385 Waimano Home Road, Pearl City, HI 96782.

The State understands that the change will alter system characteristics, reducing heat exchange capabilities, resulting in higher energy cost, but will accept the outcome.

Contractor's bid shall include all labor, materials, supplies, shop stock, truck stock, and environmentally complaint disposal of refrigerant and materials, to complete requested work.

License Requirements:

To be eligible to bid, the bidder must hold a Current, Valid, and in Good Standing "C" Specialty Contractor's license with the following certifications: C-40 'Refrigeration Contractor' and C-52 Ventilating and Air Conditioning Contractor with the State of Hawaii, Department of Commerce and Consumer Affairs. Additionally, the bidder must be compliant under 103D-310(c), HRS at the time of award. To expedite this requirement, Hawaii Compliance Express (HCE) registration is encouraged.

**Scope of Work:**

Unit Information

- Make: YORK
- Model: ZJ061C00A2AAE7A

Serial Number: N1F5767712

Condenser Replacement

Contractor will properly disassemble unit following manufacturer's directions to remove two preexisting micro channel condenser coils and filter drier; and install NEW copper tube-aluminum fin coils and NEW filter drier. Pass dry nitrogen through piping system during brazing process to totally eliminate formation of copper oxides.

Corrosion Protection

Condenser finned tube coils shall be protected with aluminum impregnated polyurethane (Blygold Polual) coating performed. Prior to coating, rinse coil to remove dust, dirt, or debris. Bent fins shall be adjusted using fin comb. The coil shall then be degreased with pH neutral cleaner and de-greaser to remove oils and

soiling. Flush the coil with a final rinsing and conditioning solution and allow it to dry before applying the coating. Apply the coating as specified above with air assisted spray equipment, ensuring total penetration and coverage of all surfaces with the manufacturer's recommended film thickness.

Contractor to reassemble unit to manufacturer's specifications.

Pressure Testing

After the refrigerant piping has been completed, pressure test the entire system at a high and low side pressure per the manufacturer's recommendation. While the system is being tested, use an electronic leak detector to check for leaks after a soap bubble search. Maintain the above pressures on the system per manufacturer's recommendation.

Evacuation

Pull a minimum of 500 microns on the system and maintain for a period of time per manufacture's recommendation. Evacuated the system when the surrounding ambient air is not less than 60 degrees F. If the temperature is less, provide auxiliary heat to insure proper evacuation conditions. Provide Minimum vacuum pump displacement of per manufacture's recommendation. Check Vacuum with an electronic gauge.

Refrigerant Recharging

Contractor to recharge system to manufacturer specification with virgin refrigerant approved by the manufacturer. Contractor to assume 10 lbs of R-410A.

Contractor will recover refrigerant from unit in compliance with the Environmental Protection Agency's Clean Air Act under Section 608.

Startup

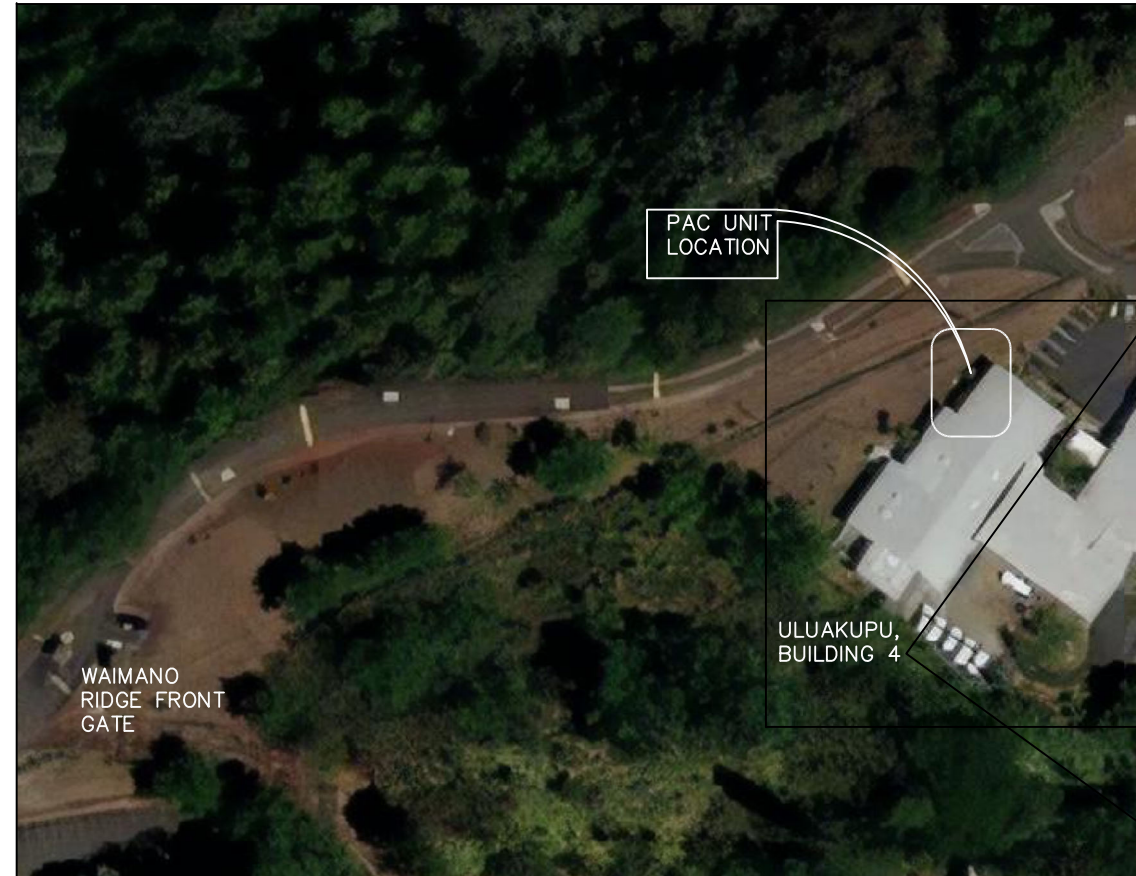
Contractor to start up and check system and equipment operations to ensure equipment is operating to manufacture's specifications.

Site Management

Contractor shall clean up work site and remove off site all debris generated from this work.

Warranty

- Contractor to provide and honor work, parts, and materials with a warranty of:
- Workmanship one year (coil and corrosion protection installation)
- Parts/Materials one year



LOCATION OF WORKSITE

SCOPE OF WORK		DATE	NOVEMBER	2023
		PROJECT NO.		
WAIMANO RIDGE ULUAKUPU REPLACE CONDENSER COIL, PAC 6 ENVIRONMENTAL MANAGEMENT DIVISION STATE OF HAWAII DEPARTMENT OF HEALTH HIEPRO SOLICITATION NO. 24001044		SHEET	2	
		SHEET 1 OF 3		