

STATEMENT OF WORK

The following description represents the basic expectations of the equipment. Substitutions and variations may be acceptable. Any references to branded or trademarked names are purely unintentional or provided for reference only in accordance with the Brand Name or Equal provisions below.

HVAC for the IT PBX in the main tower basement

REQUIREMENT FOR IT SERVER ROOMS

1. Brand Name & Model:

- Liebert Air Handler Model DS028ADC1EI003B
- Liebert Condenser Model MCM080E8YDH456

2. Requirement: This is an equipment purchase to purchase two replacement Air Handlers and two condensers. Units will be installed in the PBX area in the basement of the main tower. The condensing units will set outside the door of the room.

2. Background: PBX-MB-224 is the telecommunication room and maintains all equipment (Servers, PBX, Paging system terminals, etc.) to service all communication services for the Kansas City VA Medical Center main campus, 10 remote locations and the VISN office, as well as serves as a hub for VISN wide servers and circuits. This is the DMARC for all fiber and copper terminations.

3. Salient Characteristics:

- A. General Description: Must fit through standard door
- B. Room unit 208 volt, 3 ph, 60hz, 66.4 full load amps
- C. Condenser 208 volts, 3ph, 2.3 full load amps
- D. Air Volume 2306 cfm
- E. Evaporator type: copper tubes- aluminum fins with hydrophilic coating.
- F. Variable speed EC propeller fans
- G. Two independent Digital Scroll Compressors that must be located inside Air Handling Unit, providing:
 - a. Variable capacity, increased part-load energy efficiency, and reduced compressor cycling.
 - b. Variable capacity compressor utilizing R-407C
- H. Crankcase compressor heater and compressor sound jacket
- I. Locking Disconnect Switch
- J. Nominal Capacity minimum 8 Ton
- K. Controls: One alarm contact, one remote shutdown terminal.
- L. Interface: Large graphic display, backlit
- M. Frame can be field separated into three sections for transport through small areas.
- N. Front Service Access
- O. Supply air exits from the bottom of the unit.
- P. Return air enters the top of the unit.
- Q. Exterior panels insulated & powder coated.
- R. 4" filters, MERV 8 rating.

- S. Infrared Humidifier with automatic flush cycle. Capacity of 11 lbs/hr (kg/hr).
- T. Electric reheat with a capacity of minimum 15 KW (BTUH).
- U. Smoke Sensor with unit alarm and shutdown. Includes supervision contacts
- V. Factory installed dual float condensate pump with unit alarm indication and unit shutdown upon high water level. Rated for 100GPH at 20 ft. head.
- W. Unity Card (IS-UNITY-DP) to provide:
 - Ground fault isolated RS-485 Modbus
 - BACnet IP and Modbus IP network connectivity to Building Management Systems for unit monitoring and management.
 - Ground fault isolated 10/100 baseT Ethernet connectivity for unit monitoring and management.
 - Supported management interfaces include:
 - i. SNMP for Network Management Systems
 - ii. HTTP for web page viewing, SMTP for email

X. LT410 Point Leak Detection Sensor Qty 2 per unit

- 4. **Installation:** KCVA Maintenance and Operations staff will install units
- 5. **KVAC Point of Contact:** Zachary Homan, HVAC Work Leader, zachary.homan@va.gov
- 6.. **Warranty Requested:** Manufacturer's standard warranty.