

PROJECT # 19M249CN

MACC # 19-0452

MAXIMO# 4960302

TITLE: INSTALL 10 TON HEAT PUMP AND AIR HANDLER. REINSULATE DUCT WORK RR12

ATTACHMENTS:

Auto Cad drawing for existing equipment is for reference only.  
Maximo equipment Form

SCOPE OF WORK:

The contractor shall provide all material, labor, equipment and supervision required to accomplish the following:

General Description

Demo-

Remove existing outdoor unit, line sets and indoor air handler located in mechanical room. Concrete pad for outdoor unit is to remain in place to be reused. Remove electrical disconnect and electrical conduit and wiring to outdoor unit. Remove low voltage control wiring going to AHU, thermostat and outdoor unit. Remove all duct work insulation in mechanical room and attic area on hard piping only. Duct work is to remain in place to be reused.

Mechanical-  
HVAC

Install new 10 ton 2 stage outdoor heat pump. Unit is to be placed on existing pad as long as unit fits properly on pad. Install new 3 phase disconnect and wiring between disconnect and outdoor unit.

Disconnect size shall be per manufacture recommendations.

Install new 10 AHU in mechanical room. Modify supply and return duct work to fit to new AHU. Install canvas connector on supply and return air duct at AHU.

Install new copper refrigerant line between outdoor unit and AHU. Size refrigerant piping in accordance to manufacturer recommendations. Support piping above floor and walls on pipe supports. Insulate refrigerant suction line using 2" Insul-Tube pipe insulation. Wrap suction line in metal pipe wrap only on outside of building. Install 20 kW heat strips in AHU. Electrical power can be accessed from electrical panel (PANEL M D P) in mechanical room. All wiring shall be ran neatly in conduit. All wiring shall be per National Electrical Code. Wire size shall be per manufactures recommendations. Thermostat control wiring shall be 18 gauge 10 conductor. Install digital non programmable thermostat in same location as existing.

Thermostat shall be heat pump 2 stage cooling 3 stage heating.

Heat Pump	Voltage	Heat Strip
10 Ton 3 stage heat 2 stage cool	208 volt 3 phase	NA
10 Ton AHU	208 volt 3 phase	20 kW

Clean exterior of all duct work and seal all seems using paint on mastic duct sealant. Duct shall be seal on supply and return side from the air handler thru to attic in entire building. Wrap duct using fiberglass duct wrap. Wrap shall be R6 value and be 2" in thickness. All seems shall be taped and sealed with white paint on duct mastic sealant. Repair or replace any damaged flex as needed.

DETAILED REQUIREMENTS AND SPECIFICATIONS

Provide spec sheets for material and equipment being used prior to start of work for government approval. Provide a copy of Maximo Equipment Inventory Sheet for each piece of equipment removed and installed.

SPECIAL SCHEDULING AND ACCESS:

For building access contact Russel Eves at: [Russell.Eve@socom.mil](mailto:Russell.Eve@socom.mil) or call 910-440-0713

SPECIAL CONDITIONS: The base landfill can be utilized for disposal of all unwanted materials.  
90 Completion Date.

HAZARDOUS MATERIALS: None

ENVIRONMENTAL: None