

NAVFAC MARIANAS REQUEST FOR QUOTE N40192-23-Q-5003

ITEM DESCRIPTION

300HP PORTABLE BOILER ROOM (PBR)

Vendors are to provide quote for the following equipment: Two (2) complete container enclosed 300HP portable boiler room in a 53' container; Container and equipment design is based on using a Cleaver Brooks model CBEX Steam Firetube Boiler 300HP (Brand Name or Equal. Must be a fire tube boiler with a completely integrated boiler, burner, and controls system.).

- System design is based on a Cleaver-Brooks Boiler. CBEX Steam Firetube Boiler 300HP, (460/3/60) 10350lbs/hr output (from and at 212F), fuels natural gas and #2 Oil. Siemens gas train.
  - Fuel Series: 100 - No. 2 Oil
  - Blower Motor Horsepower 30 HP Premium Motor
  - Boiler Safety Valve Setting 250 lb. ST
  - Steam Nozzle - Size: 6" Flanged 300lb. Studdery
  - Feedwater Connection: 2.5 inch / NPT
  - Additional Tapping 2." NPT Location: Top Front of Boiler for FW Connection
  - Surge Load Baffle - 350HP
  - Quick Blowdown Valve: Sliding Disk, 2" NPT, 490lb.
  - Slow Blowdown Valve: Sliding Disk, 2", NPT, 490lb., Single Seat
  - LWCO McD-M 194-7B Prop. Float - Modulating / Proportional
  - ALWCO - Warrick 3E2 Probe
  - Reflex Gauge Glass Set: Penberthy 1-RM-4 or equal: includes ball check gauge cocks
  - Shortened Base Rail: Shortened 4"
  - Surface Blow Off Metering Valve 600 psi Steel Velan Flow Control Valve .75"
  - Standard Combustion Safeguard Control CB-780E, IR Scan (Honeywell)
  - CB Hawk 4000, Touchscreen Standard: 7" Color Screen
  - Parallel Positioning System
  - Steam Pressure Transmitter
  - Water Temperature Transmitter
  - Primary Fuel Actuator (Type: Quick Disconnect)
  - FGR Actuator (Type: Quick Disconnect)
  - HAWK Boiler Panel Ethernet Hub: 5 Port
  - Premium Air Compressor Motor: 5HP
  - Premium Oil Pump Motor: 0.75HP
  - Elapsed Time Meter (Mounted)
  - NFPA-85 350HP-Gas / #2 Oil
  - FM Insurance (Components included within NFPA-85 requirements)
- Steel 53' containers, new (one trip) shipping container with stainless steel diamond plate floor, interior walls and ceiling primed and painted white all openings framed and welded tube steel.
  - The container shall have stainless steel welded diamond plate floor.
  - LED lighting and 110V receptacles for boiler operation and service.
  - One integrated and piped water sample station.

- One exhaust fan for additional ventilation.
- All electrical will arranged for single point 480/3/60 site connection, electrical conditioned as needed for appliances.
- Blowdown separator, boiler fuel trains, electrical panels, breakers starters, all correctly sized connected and integrated into the mobile container enclosed system.
- Two (2) Vertical Centrifugal pumps. Pump is rated minimum 35gpm at 600ft. Each pump is provided with 15 H.P electric TEFC motor rated for 3 phase 480-volt, 60 cycle. Each pump is installed and includes the following factory piping.
- Suction piping including the following off each pump, shut-off valve, strainer, flexible coupling and piping off tank to pump suction inlet.
- Recirculation piping including the following off each pump, shut-off valve, check valve, orifice union and piping off pump back to tank.
- Discharge piping including the following off each pump, shut-off valve, check valve, pressure gauge and piping into common discharge manifold.
- Stainless steel modulating feed water valve for boiler level control.
- 304 stainless steel vessels. Tank capacity is 330 gallons to our normal overflow position and have approximate dimensions of 36" O.D x 48" long. Tank to be provided with manway opening.
- Electric float switch with slow opening solenoid valve.
- Temperature gauge for the receiver.
- Water gauge cocks & glass set for receiver.
- Control Panel - Nema 1 Factory mounted and wired:
  - Integral motor starters
  - Fuse protection
  - HOA switches
  - Terminal Strip
  - Push to test pump run lights
  - Low water cut-off alarm light and horn
  - Push button silence for horn
- 2" stainless steel sparging nozzles with steam pressure reducing valve and piping off tank to valve.
- Chemical injection quill.
- Sample cooler system to be provided and piped and integrated in system.
- One (1) 2000 Gallon double-walled oil tank integrated into system pipped pressure tested.
- Two (2) chemical tanks and pumps (one for the FW System and one for the boiler) to be pipe and integrated into system.
- One (1) 6" 300# ANR steam valve is supplied with unit.
- One (1) approximately 6' stub stack is supplied with unit.
- All "code" piping to be done and certified to ASME requirements
- Electrical to be liquid tight, and or rigid with weatherproof box's where possible
- Unit has a 200AMP none-fused disconnect (safety switch) interior to unit at electrical tie-in.
- Six (3) fixed louvers, one exhaust fan, one stub stack

- All piping to be insulated for burn protection where needed
  - Unit to be test fired and all piping pressurized and tested.
  - Unit comes with PA, jurisdictional boiler inspection at completion.
  - Exterior of unit to be primer and painted white with industrial grade paint.
  - Complete as built drawing package with GA's, WD's and P&ID as builds available two (2) weeks after test fire of completed unit at our shop in Washington PA.
  - Customer or customer representative is welcome to visit and or inspect unit(s) at any time during construction, with a minimum of 24hr prior notice.
- Start-up and commissioning: Start-up and commissioning of mobile boiler rooms at end user site is estimated at 7 working day per unit. Quote should include all travel expenses including lodging, air and ground transportation.
- Shipping: Quote should include all delivery cost to end user –
- Naval Base Guam  
NBG Polaris Point Bldg. 4451  
North South Access Rd, Guam 96915