ITEM #31: BULK COOLER  
Quantity: One (1)  
Manufacturer: Thermalrite  
Model No.: Custom  
Pertinent Data: 9’2” ID Wide x 28’3” ID x 8’6” High  
Utilities Req’d: 120V/1PH, 20.0 A (for lights and door heater)  
  
See plans for location and placement of item with reference to adjoining equipment.   
Furnish and set in place per manufacturer’s standard specifications and the following:  
1. Set in place in location as shown on drawings.  
2. Wall panels to be “Factory Mutual” certified and consist of 4” foamed in place Urethane foam insulated panels with less than 25 flame spread and less than 450 smoke density, in accordance with ASTM E84 and UBC Section 1713. All exposed finishes to be Sanisteel. All unexposed panels to be 20-gauge galvanized steel.  
3. All panels to have tongue and groove construction and be rigidly coupled with steel cam locks, foamed in place on 4’0” centers, minimum of three (3) per joint for walls and two (2) for ceilings. Section lock ports to be furnished with PVC snap in buttons. Panel joints to be sealed with continuous PVC gasket at interior and exterior panel edges, foamed onto panels at the factory.  
4. Ceiling panels to have a maximum deflection of 1/240 of the clear span under uniform loading of 20 pounds per square foot. Exposed ceiling finish to be by sheet metal not less than 0.38 mm thick with a melting point not less than 650 degrees C. Ceiling support system shall use hanger network attached to hanger brackets, designed to engage with female lock pins and imbedded within foam core of ceiling panels.  
5. Installation of panels to be:  
 Floor Depression, as per 11 4000 General Conditions Section 2.28 C1b. General Contractor to provide a noninsulated, level smooth, clean, 6-1/2” depressed floor, and shall apply asphalt emulsion, vapor barrier of 6 mil Visqueen on grade or Alumiseal Zero Perm above grade as determined by ASTM E96, and floor insulation of two (2) or more layers, joint staggered, of rigid foamboard with R value on cooler floors at a minimum of 25 R value, and perm rating of 20 p.s.i. Vapor permeable separation of organic 15 pound felt protective slip sheet for applying over insulation with joints lapped 6” (152mm) (min) and flashed up height of base. Finished floor and coved base as specified by Architect.  
6. Cooler door to be Thermal-Rite horizontal power sliding door. Door shall be fit with all components necessary to accomplish the successful use of a power sliding door. Door shall slide to the left of the opening on the outside of the walk-in. Install bucks true plumb and square and shall be of sufficient size to accommodate door weight. Hardware and track shall be factory mounted.  
7. Each door to be the same exterior and interior finish as the panels to the walk-in, and shall be equipped with a 12" x 14" sealed glass view port.  
8. Provide 36" high kickplate of 1/8" aluminum tread plate on both sides of door, full width of door.  
9. Provide a 60" wide x 96" high door.10. Hardware to be mounted with reinforced steel tapping plates and stainless steel machine screws.  
11. Provide interior cart bumper of 1/4” (6.35mm) x 2” (50.8mm) aluminum bar at 6” (152.4mm) AFF.  
12. Provide interior rub rails which shall be continuous lengths of angled, self-draining extruded aluminum type 6063T5 with black, non-marking vinyl bumpers, Series 40, as manufactured by Boston Metal Products of Bedford, Massachusetts. Secure rub rails with stainless steel fasteners 18” (457.2mm) on center, at 2’0” (609.6mm) AFF where walls are exposed, or where mobile equipment is located.  
13. Provide PVC, low temperature strip curtains, transparent, 8” (203.2mm) wide by 0.080” (2.03mm) thick, at door openings.  
14. Provide adequate Kason 1810LX6000 LED light fixtures installed in ceiling to accomplish 20 foot-candle power at 6” (152.4mm) above finished floor, fully enclosed and gasketed vapor tight with shatterproof diffuser sized for two (2) 75watt fluorescent lamps. Electrical Contractor to install.  
15. Provide switch covers of weatherproof neoprene with unbreakable red plastic lens for constant burning interior light and indicating exterior light. Rigid 3/4” (19.05mm) conduit and wiring to be concealed in insulated panels, and terminated in vapor tight splice box mounted on inside wall of compartment near ceiling, with 1-1/4” (31.75mm) diameter hold in ceiling panel for Electrical Contractor to make final connections.  
16. All electrical penetrations to the ambient of the walk-in require “EY” seal offs, provided by the electrical contractor.  
17. Provide unheated pressure relief port.  
18. Provide matching closure panel and provide trim strips.  
19. Provide coil supports or 1/2” (12.07mm) diameter nylon threaded rods, plated steel nuts and washers to adequately support specified evaporator coils.  
20. Provide escutcheon plates of 5” (127.0mm) diameter stainless steel, as required by each contractor to dress off utility penetrations, including drain lines. Contractor is responsible for cutting holes in blanks and sealing off respective penetrations.  
21. Each refrigerated compartment shall be monitored by an RDT Communications Package Plus analog transmitter monitor with air probe and protective case as manufactured by RDT. All Communications Package Plus analog transmitter monitors are to be connected to a single digital output devise receiver, as manufactured by RDT. Interconnection from Communications Package Plus analog transmitter monitor will be wireless, provided by the KEC, and installed by an on-site factory engineer. The wireless web-based communicator will connect to a single on-premise Communications Package Plus Intelli-Base Buffer. The final location of the data collection shall be determined by the Construction Manager and coordinated by the KEC with the Owner. KEC shall provide required software as well as Communications Package Plus HACCP Software to allow this unit and other refrigeration systems to communicate with a Computer, provided by Owner.  
22. KEC to provide Communications Package Plus HACCP monitoring system software, which when installed on Owners Computer will provide the kitchen operator the ability to monitor and record time and temperature of various equipment as identified in the specification.  
23. KEC is fully responsible to provide a fully tested and operational system.  
24. Provide shop drawings for approval prior to fabrication.  
25. Must meet all applicable federal, state, and local laws, rules, regulations, and codes.