

**Russell County School Nutrition**  
**Equipment Site: Russell County High School**  
**2166 South Hwy 127 Russell Springs, KY 42642**  
**Contact: Susan Melton, Food Service Director**  
**POB 1236 Russell Springs, KY 42642**  
[Susan.melton@russell.kyschools.us](mailto:Susan.melton@russell.kyschools.us)  
**270-866-6300 ext 2138**

**Due Date for Bid: August 17, 2018 by 4:00pm CST**

**Send Bid through Email attachment; Subject Line: Russell CO. HS Freezer/Cooler Combo**

**Notification of Bid Award August 20, 2018**

**Install Date No later than October 15, 2018**

SECTION 11400 – FOOD SERVICE EQUIPMENT

1. SCOPE

General provisions of Contract, General and Supplemental Conditions, and General Requirements apply to this section. And, this section shall be governed by alternates insofar as they affect this work. This includes, but is not limited to jobsite measurements, trade coordination and supplying equipment as specified.

2. DESCRIPTION

A. Related work specified elsewhere:

1. Instructions to bidders, general and supplementary conditions.
2. Drawings and project data.
3. Mechanical and electrical work.

B. "Food Equipment Contractor" or the abbreviation FEC, or the term bidder, means the person, company or corporation that will contract for the work specified in this section.

C. "MC" refers to the Mechanical contractor which contract has coordination issues with the food service equipment and certain obligations under contract.

D. Food Equipment Contractor's Work includes:

1. All labor, materials and equipment necessary for complete installation (ready for final connections by other trades) of the food service and related equipment as indicated in these documents.
2. Delivery, unloading, storing, assembly and setting in place of the specified equipment, ready for final connections by others.
3. Delivery of all loose fittings to other trades and coordination of same, (faucets, valves, etc.)
4. Reasonable protection of all equipment from damage until owner acceptance.
5. On Site Inspection to see that all rough-ins and connections to all mechanical, electrical, ventilation, and refrigeration equipment are made according to the intent of these specifications. If FEC drawings and other submittals are in conflict with the engineering and architectural bid documents, work should not proceed until clarified by the architect or owner.

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6. Mechanical work by FEC: remote refrigeration lines and furnish faucets and wastes and overflows as specified for installation by mechanical contractor or owner.
7. Electrical work by FEC: Receptacles specified as a part of equipment and all required cords and plugs. These standard cords and plugs will be provided by FEC. FEC will not provide starters or non-standard junction boxes and will not provide any connections other than the internal control wiring on the walk-in cooler-freezer.

### 3. QUALITY ASSURANCE

A. Qualifications: Bidder shall have engineering personnel and facilities to design, detail and fabricate quality food facilities equipment of type and size used on this project. Requirements of Regulatory Agencies: Comply with and bear seal of National Sanitation Foundation and Underwriter's Laboratory

1. National Electrical Code 2007 edition
2. O.S.H.A.
3. International Mechanical Code 2000 and other Uniform Plumbing and Mechanical Codes, State of Kentucky

### 4. SUBMITTALS

A. General Procedures:

1. Shop and Rough-in Drawings for approval, four (4) sets of prints; 8 copies for distribution after approval OR number as directed by the architect or owner.
2. Maintenance manuals: Three (3) bound sets.

B. Shop Drawings for custom fabricated equipment are to consist of a plane view, elevation, and section view of each item of equipment. Drawings shall be at a minimum scale of  $\frac{3}{4}$ " = 1'-0".

C. Rough-in Drawings are to consist of the following sheet respectively. Floor plan showing equipment and item number, drawn at  $\frac{1}{4}$ " = 1'-0" scale. All wall line

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dimensions are to be taken from architect's drawing to insure exact wall line dimensions. Should discrepancies occur, note these to Architect or owner when submitted.

- D. Equipment Brochures are to contain all information as listed below and assembled with the Item specification sheet with all accessory items and mechanical requirements listed.
- E. Maintenance Manuals: Instructions for maintenance of food equipment, including the following:
  - a. Care of finished surfaces
  - b. Material Safety Data sheets
  - c. Period of warranty and list of service agencies responsible for each item of equipment.

**5. WARRANTY**

- A. FEC shall warranty all equipment furnished under this contract against defects in material and workmanship for a minimum period of one (1) year, unless specifically mentioned in this document or if the standard factory warranty is longer than one year. All buy-out equipment shall have a factory warranty covering one-year parts and labor. Warranty shall go into effect on date of substantial completion or date put into use by Owner, whichever is sooner.
- B. Sealed refrigeration units shall be warranted for five (5) years.
- C. Owner is not responsible for and expenses involved in servicing of any item furnished under this contract unless it can be shown that said items were misused by Owner or that service call was not necessary.
- D. The owner will ask only the FEC for any warranty service or repair and shall not be expected to direct any calls to any other agency for the FEC. Owner calls to other sources may void factory warranties and such costs may be borne by the owner.
- E. Owner shall have continued use of defective equipment until replacement is delivered.

**6. INSTRUCTIONS TO BIDDERS (SUPPLEMENTAL)**

- A. Each bidder shall submit with his bid, an itemized list of equipment showing the following information:

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1. Manufacturer's name and model number.
  2. Installed cost of each item with an itemization of labor and materials. The Owner reserves the right and option of deleting any dollar amount of the base bid by selecting items from above list submitted by FEC.
- B. The Owner has the right and option of purchasing any previously deleted equipment within ninety (90) days after contract is signed.

**7. REFRIGERATION**

- A. General. Provide refrigeration condensing units of size and capacities as indicated, consisting of compressors, condensers, receivers, motors, mounting bases, vibration isolators, refrigeration components, safety devices, electrical controls, refrigerant and protective controls, ALL FACTORY ASSEMBLED and tested.
1. Refrigerant: Charge units with refrigerant. Refrigerant to be most current type that is approved for use under the Montreal Protocol, and in accordance with the Federal Clean Air Act and guidelines of the EPA. R-12 and R-502 will not be acceptable.
- B. Equip each compartment with the necessary lighting to provide a minimum of twenty (20) foot candles of light at any point thirty inches above the floor. Lights are to be mounted on the interior of each compartment. For extra lights specified or required, provide all hardware and deliver to the electrical contractor for installation.
- C. Provide digital or two-inch diameter chrome-plated dial thermometer, flush mounted on the exterior wall with sensor bulb mounted and protected in an appropriate design location, unless otherwise specified.
- D. Doors shall be complete with stops, piston-actuated self-closing mechanisms, inside safety releases and key-locking devices. Provide full perimeter door heaters on freezer doors, including under factory-manufactured sills. Where building floor becomes the walk-in floor or is level with it, doors shall be hung on chrome-plated, camlift hinges such that the doors shall be self-closing from all angles.
- E. All interior corners and intersections shall be coved for easy cleaning.
- F. Provide timed, programmable defrost controls for freezer coils.
- G. Condensate drain lines shall be furnished and installed by the FEC. Insulate all drain lines with 3/4" pre-molded foamed insulation. Provide heater coil or tape

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on all freezer drain lines, pre-wired with effective shelving design. Use hard copper for all drain lines, sized and sloped as required for good drainage, complete with traps over exterior drains.

- H. Refrigerant piping shall be Type ACR hard temper copper tubing with wrought fittings and silver solder joints. Insulate all suction lines with 3/4" pre-molded foam insulation.
- I. Provide all control wiring between condensing unit and coil. The electrical contractor shall make final connections from the disconnect to the condensing unit.
- J. Provide all specialty parts for dryer, filters and pump down controls for a proper installation.

## 8. EXECUTION

### A. Existing Equipment

- 1. FEC shall be responsible for the removal and disposal of the existing combination walk in/cooler. This includes having an authorized service agent capture/dispose of refrigerant in existing refrigeration units.
- 2. The existing evaporator and corresponding condensing unit for the existing cooler compartment shall be removed and properly maintained to be reinstalled into the new cooler compartment.
- 3. FEC will be responsible to coordinate a pre-construction meeting to include the owner and maintenance team of the site along with any other relevant parties.

### B. Inspection

- 1. Inspect all submittals to see that they do not conflict with documents published by Consultant/Architect/Owner.
- 2. The FEC is responsible for verifying all dimensions, quantities, construction details.
- 3. Field check locations and sizes of all rough-ins prior to installation of finished floors, walls and ceilings to verify that said rough-ins are in correct position and where shown on FEC's drawings.

### C. Specifications for other contractors to make final electrical, water, waste and ventilating connections, unless otherwise specified.

- 1. The duties of the FEC in relation to other trades: The FEC shall coordinate all information relating to FEC's equipment required by other trades.

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2. All equipment resting against walls, floors, ceilings, masonry bases and/or other equipment shall be sealed with silicone sealer, as specified.
  3. The FEC is responsible during the progress of the project for protection of his equipment against fire, theft, damage, etc., until date of final acceptance by Architect or owner.
- D. Testing, Demonstration, Instruction
1. After utility connections have been made to all equipment, FEC shall conduct final tests of equipment in the presence of the Consultant/Owner and/or their duly authorized representatives to ensure that all equipment will be ready for Owner operation when required.
  2. The FEC shall thoroughly instruct Owner and/or Owner's duly authorized representative in the operation of all equipment, item by item, including fabricated equipment.
    - a. Instruction shall include the care and cleaning of all equipment and a complete demonstration of operation.
    - b. The FEC's installation supervisor is required to be at the project during normal working hours the first day of complete Owner operation to assist Owner in complete operation.
  3. The FEC shall deliver three (3) sets of maintenance manuals as specified to Owner or Owner's duly authorized representative and shall thoroughly instruct owner in the complete contents of said manuals.
- E. Cleaning
1. All trash material caused by FEC's installation shall be removed by the FEC from the project site daily.
  2. Before final inspection and Owner operation of facility, the FEC shall remove all protective coverings from his equipment and thoroughly clean and service all items.

## **Specification Section**

Please note that the following brands and model numbers have been specifically selected to serve a specific energy-saving purpose on this project and conform to established utility requirements. Do not provide any alternate brands. Provide quantity of items as shown in the drawing or mentioned specifically in the written descriptions.

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A site visit is required before the bid to verify utilities and locations of new items listed below. FEC must deliver, unload, uncrate, assemble, to provide all material and installation of refrigeration systems and set in place ready for final connections.

Item 1– **Combination Walk in Cooler & Freezer**      **Brand:** Kolpak      **Model:** Custom

**Overall Exterior Dimensions:** 17'4" x 18'-3 ½" x 7' -6 ¼"

**Cooler Compartment** interior dimensions: 8'2" x 9' x 6'-10 5/8"

Wall panels

Shall consist of foamed-in-place urethane insulation, sandwiched between interior and exterior metal "skin" which has been die-formed and gauged for uniformity in size. Edges of panels shall be foamed-in-place tongue and groove with locking facilities foamed-in-place at time of fabrications. All panels to be 4" thickness. All panels to be embossed white on the interior.

Exterior of kitchen facing panels to be 20-gauge 304 stainless steel. All other panels to be .26-gauge stucco-embossed Galvalume steel.

Ceiling Panels

Shall consist of foamed-in-place urethane insulation, sandwiched between interior and exterior metal "skin" which has been die-formed and gauged for uniformity in size. Edges of panels shall be foamed-in-place tongue and groove with locking facilities foamed-in-place at time of fabrications. All panels to be 4" thickness. All panels to be embossed white on the interior.

Exterior of panels shall be .26-gauge stucco-embossed Galvalume steel.

Floor Panels

Shall consist of foamed-in-place urethane insulation, sandwiched between interior and exterior metal "skin" which has been die-formed and gauged for uniformity in size. Edges of panels shall be foamed-in-place tongue and groove with locking facilities foamed-in-place at time of fabrications. All panels to be 4" thickness. Floor shall include ERA delaminating bracket and shall be rated for up to 1,000 lbs per sq. foot. Floor finish shall be a .100-gauge smooth aluminum.

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Refrigeration

Supplied by owner for the cooler section

**Freezer compartment** interior dimensions 8'2" x 17'-7 1/2" x 6'-10 5/8"

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Kitchen facing panels to be 20-gauge 304 stainless steel. All other panels to be .26-gauge stucco-embossed Galvalume steel.

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Refrigeration



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Qty 1- Model # KCP299LOP-2E, 3 HP, R404A, Low temp standard pre-charged air cooled hermetic condensing unit. Unit must be rated for 100° ambient temperature and maintain a storage temperature of -10.

Qty 1- Model # KEL36-121-2EC-PR-4, R404A Low temp, electric defrost.

Accessories

Each compartment is to be equipped with the following item:  
Arctic Fox WiFi LDA kit for wireless temperature monitoring

END OF SECTION 11400