

## **FOOD STORAGE EQUIPMENT**

### **PART 1 - GENERAL**

#### **1.1 DESCRIPTION**

A. This section specifies self-contained refrigeration equipment as follows:

1. Automatic ice making and dispensing stations.
2. Dual-temperature units.
3. Refrigerator.

#### **1.2 RELATED WORK**

- A. Plumbing Connections: Section 22 11 00, FACILITY WATER DISTRIBUTION.
- B. Electrical Connections: Section 26 05 21, LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600 VOLTS AND BELOW)

#### **1.3 QUALITY CONTROL**

- A. Installer Qualifications: Factory-trained refrigeration technicians and experienced with food service refrigeration equipment installation or supervised by an experienced food service equipment installer.
- B. NSF Compliance: Equipment bears NSF Certification Mark or UL Classification Mark:
1. Refrigerators and Freezers: Evaluated according to NSF/ANSI 7.
  2. Ice Makers: Evaluated according to NSF/ANSI 12.
- C. UL Listing: Equipment is listed and labeled by UL:
1. Refrigerators and Freezers: Evaluated according to UL 471.
  2. Ice Makers: Evaluated according to UL 563.
- D. In-Use Service: At least one factory-authorized service agency for equipment shall be located in the geographical area of the installation and shall have the ability to provide service within 24 hours after receiving a service call.

#### **1.4 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
1. Include manufacturer's address and telephone number.
  2. Include catalog or model numbers and illustrations and descriptions of refrigeration equipment and accessories.
  3. Proof of appliances being Energy Star qualified.
- C. Installation Drawings: Show dimensions, details of installation, coordination with plumbing and electrical work, and other work required for a complete installation.
- D. Operating Instructions: In accordance with requirements in .

## **1.5 WARRANTY**

Warrant food service equipment to be free from defects in materials and workmanship in accordance with requirements of "Warranty of Construction", FAR clause 52.246-21, except warranty period for refrigeration compressors shall be five years.

## **1.6 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. NSF International/American National Standards Institute (NSF/ANSI):
  - 7-07.....Commercial Refrigerators and Freezers
  - 12-07.....Automatic Ice Making Equipment
- C. Sheet Metal and Air Conditioning Contractors' National Association (SMACNA): Publication 1767  
Kitchen Ventilation Systems & Food Service Equipment Fabrication and Installation Guidelines, 2001.
- D. Underwriters Laboratories Inc. (UL):
  - 471-06.....Commercial Refrigerators and Freezers, 8<sup>th</sup>  
Edition: Revised 2004
  - 563-95.....Ice Makers, 7<sup>th</sup> Edition: Revised 2006

## **PART 2 - PRODUCTS**

### **2.1 AUTOMATIC ICE MAKING AND DISPENSING STATIONS**

- A. General Requirements: Automatic ice makers and dispensers as follows:
  - 1. Stainless-steel exterior, front and sides.
  - 2. Air-cooled compressor.
  - 3. Insulated storage bin with agitator.
  - 4. Cube-type ice.
  - 5. Dispensing area located between 813 and 1016 mm (32 and 40 inches) above the floor.
  - 6. Ice dispenser.
  - 7. Provide Energy Star qualified appliances.
- B. Automatic Ice Making and Dispensing Units:
- C. Basis of Design: Model# DCM-270, Hoshizaki America Inc., or approved equal.

### **2.2 REFRIGERATORS, FREEZERS, AND DUAL-TEMPERATURE UNITS, REACH-IN AND PASS-THROUGH**

- A. General Requirements:
  - 1. Exterior Finish: Stainless steel, door, sides, and top.
  - 2. Interior Finish: Stainless steel.

3. Doors: Half height with door locks.
4. Door Hinge: As shown on drawings
5. Refrigeration System: Self-contained.
6. Accessories:
  - a. 152 mm (6 inch) high casters.
  - b. Cord and plug.
  - c. Stainless-steel back.
7. Provide Energy Star qualified appliances.
- B. Shelves: Six chrome-plated wire shelves per full section or three chrome-plated wire shelves per half section.
- C. Tray Slides: Angle type.
- D. Temperature:
  1. Dual: +1.6 degrees C and -23.3 degrees C (+ 35 and -10 degrees F).
- E. Basis of Design: Model# KI-CP22EXMP, KitchenAid, or approved equal.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Install self-contained refrigeration equipment level and plumb; arranged for safe and convenient operation; with access clearances required for maintenance and cleaning; and according to manufacturer's written instructions.
- B. Install seismic restraints for equipment.

#### **3.2 CLEAN-UP**

- A. At completion of the installation, clean and adjust self-contained refrigeration equipment as required to produce ready-for-use condition.
- B. Where stainless-steel surfaces are damaged during installation procedures, repair finishes to match adjoining undamaged surfaces.

#### **3.3 INSTRUCTIONS**

Instruct personnel and transmit operating instructions in accordance with requirements in.

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