



BLAST CHILLER / SHOCK FREEZER (Self-Contained)(Roll-In) Model: AP20BCF175-3

JOB _____

ITEM # _____

QTY. REQUIRED _____

SPECIFICATIONS

SCOPE: This specification covers the model AP20BCF175-3 HurriChill™ Blast Chiller/Shock Freezer. This unit consists of a chilling/freezing cabinet with a self-contained, air-cooled refrigeration system and is complete with all required controls and accessories. Several options are also available.

GENERAL: The microprocessor control system provides a choice of operating cycles: soft chilling, hard chilling, shock freezing, holding, and sterilizing. A heated core temperature probe is provided for accurate control of temperature within the product. The cabinet is sized to accommodate one mobile rack (not included) to hold 12" x 20" x 2-1/2" deep food pans or 18" x 26" sheet pans (pans not included).

PERFORMANCE: Blast chilling (soft or hard) lowers the food core temperature from 160°F to 38°F within 90 minutes. Shock freezing lowers the food core temperature from 160°F to 0°F within 4 hours. Chilling and freezing times will vary somewhat, depending on the food quantity, initial temperature, density, moisture content, specific heat, and type of container. The airflow has a high velocity, indirect pattern designed to cool all levels at identical rates. Time/temperature chilling and freezing rates meet or exceed all FDA and state regulations.

CONSTRUCTION: The chilling/freezing cabinet is constructed of polished type 304 stainless steel, with 3-1/4" of CFC-free, high density polyurethane insulation. The interior corners are fully rounded. The door is equipped with a removable magnetic gasket. All motors are sealed ball bearing wash-down type. The cabinet floor is insulated (1/2" CFC-free high density polyurethane) and is provided with an integral 3" long ramp to facilitate access. A minimum 15" clear space is required above the cabinet for service. A minimum 6" clear space is required on the control panel side of the cabinet for service. A minimum 12" clear space is required on the hinge side of the cabinet for door opening. The door is hinged on operator's left.

REFRIGERATION SYSTEM: The self-contained refrigeration system, which is mounted on the top of the cabinet, includes a condensing unit using R-404A refrigerant. The evaporator temperature range is +25°F to -40°F. The compressor is a semi-hermetic type with inherent overload protection.

MICROPROCESSOR CONTROL SYSTEM: The solid state electronic control panel is user friendly, easy to reach, and can be set for automatic or manual operation. The heated core probe continuously measures the product temperature during the chilling or freezing cycles. At the end of the freezing cycle the probe can be heated for ease of removal from the frozen product. Easy to read VFD display and buzzer alarm are standard features. All settings are programmable by the operator. The standard operating cycles include the following:

- **Soft Chilling:** The air temperature is held in the range of 28°F to 35°F, ideal for delicate food items. The chilling cycle is completed when the food core temperature reaches 38°F to 40°F.
- **Hard Chilling:** The air temperature is lowered to 0°F. When the food core temperature reaches 60°F, the air temperature rises to a range of 28°F to 35°F. The chilling cycle is completed when the food core temperature reaches 38°F to 40°F.



- **Thawing (Optional):** Air temperature is carefully monitored and alternates between gentle heat and refrigeration to safely thaw food product.
- **Shock Freezing:** This cycle is designed to avoid damage to the food structure, keeping the food free of large ice crystals. The air temperature is lowered to and held at -25°F. The freezing cycle is completed when the food core temperature reaches 0°F.
- **Holding:** At the end of any cycle (soft chilling, hard chilling or shock freezing), the unit will automatically switch to a holding mode which will keep the food at 38°F (chilled) or at 0°F (frozen) until START/STOP button is pressed to end the cycle. If the door is opened before pressing START/STOP button, the holding mode will resume when the door is closed and continue until START/STOP button is pressed.

ADDITIONAL FEATURES:

- **Defrost:** An automatic defrost cycle is factory preset and will initiate after each 24 hours of operation. A manual defrost override can be selected at any time at the user's discretion.
- **Recipe Names:** Up to 150 recipe names can be programmed by the user.

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ANSI/NSF 7

Printed in the USA 2/11

Details and Dimensions

HURRICHILL™

**BLAST CHILLER / SHOCK FREEZER
(Self-Contained)(Roll-In)**

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LATERAL VIEW

FRONT VIEW

TOP VIEW

DIMENSIONS	OUTSIDE			INSIDE			DEPTH WITH DOOR OPENED	SHIPPING WEIGHT [LBS]
	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT		
ENGLISH	47-1/4"	42"	93"	27-1/8"	34"	72-1/4"	72-1/2"	1,220
METRIC [MM]	1200	1067	2362	690	864	1835	1743	

MODEL	MAXIMUM LOAD PER CYCLE [LBS]		ELECTRICAL TOTAL					COMPRESSOR HP
	CHILL	FREEZE	VOLTS	PH.	HZ.	AMPS.	REQUIRED CIRCUIT [A]	
AP20BCF175-3	200	120	208	3	60	19.5	30	2.5

OPTIONS:

- Sterilizing:** The ultraviolet system sterilizes all metal surfaces within the cabinet in a preset time of 30 minutes. The mirror finish of the cabinet interior is specifically designed to optimize the performance of the UV cycle. The system is not intended to sterilize food.
- Printer:** A strip recorder provides a record of the unit's operating parameters during a cycle and the following holding period. The information recorded includes date, time, cycle identification, recipe name, and product core temperature at prescribed intervals.
- Label Printer:** Clearly label food product with a product name and information regarding the product's life cycle throughout the entire chilling/freezing process.
- Second Food Probe:** One heated food probe is standard. A second heated food probe can be provided as an option.
- Four Food Probes:** One heated food probe is standard. Four heated food probes can be provided as an option.
- Thaw Cycle Module:** Allows the unit to be used as a thaw cabinet and includes non-heated thaw probe.
- Automatic Mode:** Air temperature is controlled by monitoring the food product using a non-heated probe. Once the product reaches 38°F the cycle is complete and the unit switches into holding mode.
- Automated Report Documentation (ARD) Software Package:** Allows for complete two-way communication between the unit and a remote PC. Supported functions include programming, system diagnostics, operation, and downloading of data for HACCP compliance.
- Mobile Racks:** The cabinet can accommodate one mobile rack with maximum dimensions of 26" wide, 29" deep and 70" high.

INSTALLATION: A detailed installation manual is provided. It must be carefully followed to ensure proper operation and to protect your rights under the warranty.

WARRANTY: The warranty covers all parts found to be defective and the labor required to replace them for a period of one year from the date of shipment. The compressor only is covered for an additional period of four years, as a part only, no labor.