



**MODEL: TK140BCF-2  
BLAST CHILLER & SHOCK FREEZER**

**SPECIFICATIONS**

This specification covers model TK140BCF-2 roll-in blast chiller and shock freezer using uniframe modular chiller system from **Thermo-Kool®**.

**CAPACITY:** TK140BCF-2 is designed for roll-in:

- Three angle guide racks, for a total of up to 120 food pans
- Three universal guide racks, for a total of up to 120 food pans or 60 sheet pans
- Three combi oven racks
- Any size racks up to 35"(W) x 38"(D) x 75"(H)

**PERFORMANCE:** TK140BCF-2 blast chills up to 1400 lb of product from 165°F to 37°F within two hours and shock freezes 930 lb of product from 165°F to 0°F within four hours when the condensing unit used is model TK140BCF-CU-A or TK140BCF-CU-W.

(Remote condensing unit is optional. This model can be connected to a medium/low temperature refrigeration rack system.)

**CONSTRUCTION:** The blast chiller cabinet is constructed of four-inch panels with a patented DURATHANE 100% urethane tongue and groove hard rail perimeter, foamed-in-place CFC-free polyurethane insulation with an exterior of polished 304 stainless steel and the interior of mirrored finish 304 stainless

steel. The door is mounted to a heavy-duty reinforced steel "U" channel frame that is foamed in place to provide additional support and rigidity to prevent racking and twisting of the door section. The door frame is heated to avoid frost buildup and is fully controlled by the unit's electronic control system. The unit has a two-inch reinforced floor fabricated of 304 stainless steel as standard.

**REFRIGERATION SYSTEM:** All required electrical and refrigeration components are fully assembled on a 304 stainless steel standalone uniframe modular chiller system which allows for quick and easy installation. The system utilizes 404A refrigerant. A unique three-way indirect airflow system within the food compartment, combined with a multipoint injection high efficiency evaporator, delivers a close gradient temperature over the product. A remote condensing unit specifically designed for blast chilling and shock freezing can be provided separately by **Thermo-Kool®**.

The uniframe modular chiller system is protected by a registered patent with the United States Patent and Trademark Office.

**CONTROL SYSTEM:** The TK140 control system is based on the latest microcontroller technology and comes standard with one heated food probe and one air probe that monitor temperatures and control the unit while operating in the fully automatic mode. The unit is also fully functional in manual mode. Various cycles are available: soft chill, hard chill, shock freeze, evaporator defrost, thaw (optional), and ultraviolet light sterilization (optional). At the end of any chill, freeze, or thaw cycle, the unit will automatically switch to a holding mode to keep the product at safe temperatures. The controller has a real time clock and storage capabilities for up to 150 recipes for documentation purposes as well as a built-in dry contact for an external alarm/phone dialer connection. A two-line, 40-character display allows the operator easy on-screen step-by-step operation and programming.

**ELECTRICAL:** 208VAC, 1Ph, 60Hz, 20 Amps circuit.

**INSTALLATION:** A detailed installation manual and an owner's manual are provided with every unit. These manuals must be carefully followed to ensure installation proper and operation to protect the warranty

**WARRANTY:** The warranty covers parts found to be defective and the labor required to replace them for a period of one year from the date of shipment. For full warranty details please refer to the **Thermo-Kool®** standard warranty supplied with each unit or available upon request.

**APPROVALS:** Safety approval according to UL 471 and sanitation approval according to NSF 7 as tested by ETL/INTERTEK.



**Product Load Per Cycle:**

Chills up to 1400 lb from 165°F to 37°F within two hours

Freezes up to 930 lb from 165°F to 0°F within four hours

**Required Refrigeration:**

156,000 Btu/H

(20°F Evap. Temp./110°F Cond. Temp.)

Medium and Low Temp., R404A

**Refrigeration Lines:**

2-1/8" Suction Line

1-1/8" Liquid Line

**Shipping Weight:**

2600 lb

**Electrical:**

208VAC, 1Ph, 60Hz, 20 Amps Circuit

**OPTIONS:**

- Exterior ramp (24" or 32" deep)
- Serial printer for complete HACCP documentation
- Label printer for complete HACCP documentation
- PC connection for complete HACCP documentation
- SD card for complete HACCP documentation
- Thaw cycle
- UV cavity sterilization
- Up to three additional food probes
- Rear door for pass-thru operation
- Remote condensing unit
- Mobile racks
- Additional prefabricated floor thicknesses available

**Note A:** The location of the drain line exit can be front, side, or rear and will be established according to job site requirements.

