



INSTRUCTION MANUAL

RF-10 Operation with 1 Probe Blast Chiller

IM-360-93

INTRODUCTION

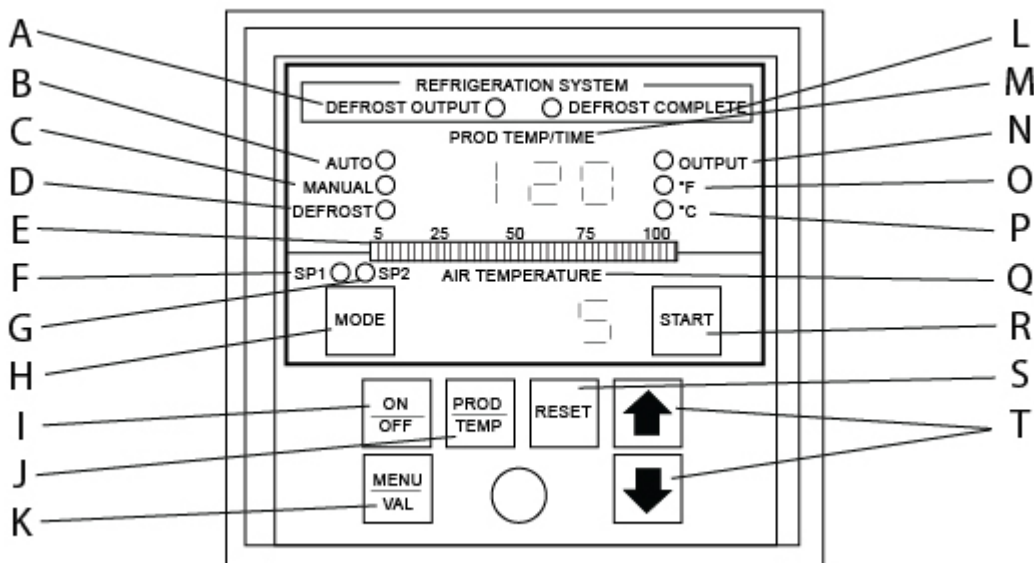
The Bally Northwind 500UR and 1000UR-2 blast chillers provide a safe, easy, reliable means to rapidly cool cooked foods. For best results, it's important to follow these instructions when using a Blast Chiller with 1 probe.

GENERAL INFORMATION

- A. Use carts with 12" x 20" x 2½" steam table pans, 12" x 10" x 2½" steam pans, or 18" x 26" sheet pans. Plastic bags and pouches may also be used if volume is adjusted for product density.
- B. Fill food pans no deeper than 2".
- C. Food should be covered, preferably with metal lids, to guard against dehydration from high-velocity airflow.
- D. Allow space between pans or trays to permit airflow. Adjust shelves so there is 6" between tray supports.
- E. Make every effort to move food into the blast chiller as soon as it's cooked. This method reduces the possibility of contamination.
- F. The blast chiller will operate only when all doors are closed, including pass-through doors. This minimizes the possibility of icing or overheating.

CONTROL PANEL

Note: To access I, J, K, S, T the hinged door must be flipped down.



CONTROL PANEL

- A. Defrost Output- lights up when unit is in the defrost mode.
- B. Auto - lights up when the unit is operating in the automatic mode.
- C. Manual - lights up when the unit is operating in the manual mode.
- D. Defrost- lights up when the unit is operating in the defrost mode.
- E. Bar Graph- indicates the percentage. of time remaining in the manual mode.
- F. SP1 - lights up when the unit is operating in the 37°F or 3° C mode.
- G. SP2 - lights up when the unit is operating in the 5° F or -15° C mode.
- H. Mode - push to select operating mode - auto, manual, or defrost.
- I. On/Off- push to turn the unit on or off.
- J. Prod Temp- push to display product (food) temperature in the upper display while in manual mode.
- K. Menu/Val- used by the factory to program the controller.
- L. Defrost complete - lights up when the defrost cycle is complete.
- M. Prod Temp/Time - indicates the product (food) temperature in the automatic mode or the time remaining in the manual mode.
- N. Output - indicates refrigeration function (this light will go on and off while the unit is operating).
- O. °F - indicates the unit temperatures are in Fahrenheit.
- P. °C -indicates the unit temperatures are in Centigrade.
- Q. Air Temperature- indicates the air temperature in the unit.
- R. Start - push to start the unit operating in the manual mode.
- S. Reset - push to change time while in the manual mode.
- T. Up/down arrows - used to add or subtract time from the manual mode.

AUTOMATIC OPERATION

Note: For the automatic mode to operate the probe must be used.

1. Roll cart with food into the blast chiller and insert the probe into the food. To register the proper temperature, the tip of the probe must be placed at the center of the food being chilled. Be sure to clean and sanitize the probe thoroughly after every use. Close door or doors to operate the blast chiller.
1. Press the on/off button (I).
3. Press mode button (H) until auto (B) is lighted.
4. If food enters the blast chiller above 140°F or 60°C the SP1 indicator (F) will light indicating the blast chiller is operating in the 37°F or 3°C mode. The air temperature will be displayed in the lower display (Q). The blast chiller is now operating in the automatic mode.
5. When the food temperature (displayed in the upper display- M) reaches 140°F or 60° C or is put into the blast chiller below 140° F or 60°C the SP2 indicator (G) will light, indicating the blast chiller is operating in the 5°F or -15°C mode.
6. When the food temperature reaches 37°F or 3°C the SP1 indicator (F) will light again. Food may be removed from the blast chiller after this point.

7. A batch of food may be put into the blast chiller at the end of the day. With the unit set to automatic, the food will be chilled to 37°F or 3°C and safely held there until morning. The same technique may be used any time food is chilled and cannot be removed from the blast chiller at once.
8. Minor variations in temperature will not cause the probe to restart the SP2 mode (5°F or -15°C). This feature prevents accidental freezing of chilled foods.
9. If you attempt to use the blast chiller in automatic mode without the probe being connected, "SENS" will flash in the upper display (M). The unit will not operate in SP2 mode (5°F or -15°C) while this message is flashing. To remove the message, either connect the probe or change the operating mode to manual.

MANUAL OPERATION

Note: Food probes are not needed for this mode of operation. Probes may be used to monitor food temperatures if inserted in food. If probes are not inserted in food, probes will monitor air temperature.

It is not recommended to use the manual mode for overnight chilling since foods may not be cooled through the danger zone at the end of the preset time when the refrigeration mode changes to SP1.

1. Roll cart with food into the blast chiller and insert the probe into the food, if desired. To register the proper temperature, the tip of the probe must be placed at the center of the food being chilled. Be sure to clean and sanitize the probe thoroughly after every use. Close door or doors to operate the blast chiller.
2. Press on/off button (I).
3. Press mode button (H) until manual (C) is lighted.
4. Set the amount of time you want the blast chiller to operate by using the up or down arrows (T). The time will appear in the upper display (M).
5. Push start (R) button to begin cooling process. The bar graph (E) will indicate the percentage of time remaining. The unit will operate in the SP2 mode (5°F or -15°C) until the time runs out.
6. When the preset time runs out the blast chiller will change operating modes to SP1 (37°F or 3°C). Food may be removed from the blast chiller at this point.
7. If you are using the probe, push prod temp button (J) to determine food temperature. This temperature will appear in the upper readout (M).
8. If you need to stop the blast chiller before the time runs out, press reset (S). To restart, push Start (R) again. The blast chiller will continue with the remaining time.
9. If you need to add more time for the unit to run in manual mode, press reset (S), add time by using the up arrow (T), and push start (R).

DEFROST CYCLE

Note: The defrost function is intended only to defrost the blast chiller. It cannot be used to defrost food.

1. Because the air temperature inside the unit is above freezing much of the time, it's not usually necessary to defrost the blast chiller. Defrosting is generally needed only in severe operating conditions, including high humidity in the kitchen or extended continuous operation.
2. If the blast chiller is to be shut off for several hours or more, defrosting is not required. The unit will self-defrost naturally whenever the air temperature is higher than 32°F or 0°C.
3. To use the defrost mode, push the on/off button (1).
4. Then push the mode button (H) until defrost light (D) is lighted.
5. Push start button (R).
6. Defrost output light (A) will be lighted in the defrost mode.
7. When defrost mode is complete, the defrost complete light (L) will be lighted.
8. If you must stop the defrost mode before it is completed, push the reset button (S).

POWER FAILURE

When the controller senses that power failure has occurred, all information that is necessary to properly return to operation is stored in memory not affected by the power failure. This information includes the current operating mode, manual timer setting, etc.

When power comes back on, the previously saved operating mode is used to determine the proper operating mode to resume. The previous mode of operation will begin at the point where the power failure occurred. This includes auto, manual and defrost.

If the operating mode was auto or manual when the power failure occurred, "P F" will flash in the upper display (M). To remove this message, use the on/off button (I) to turn the controller off then on. In the manual mode, the reset button (S) must first be pressed to stop the timer, and then the on/off button pressed to clear the power failure message. If the operating mode saved at power failure was off or defrost, a power failure message will not appear.

OPEN SENSOR

If "SENS" is flashing in the lower display (Q) at any time, the controller will automatically shut off. This indicates there is a problem with the air temperature sensor and the blast chiller will not operate. Contact your service representative immediately to have this fixed.