Commercial Kitchen Equipment Parts

TRAULSEN TBC13

Service Manual

Provided by PartHubz

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TRAULSEN BLAST CHILLERS

Models: TBC5, TBC13, TBC1H & TBC1HR

training guide

Traulsen

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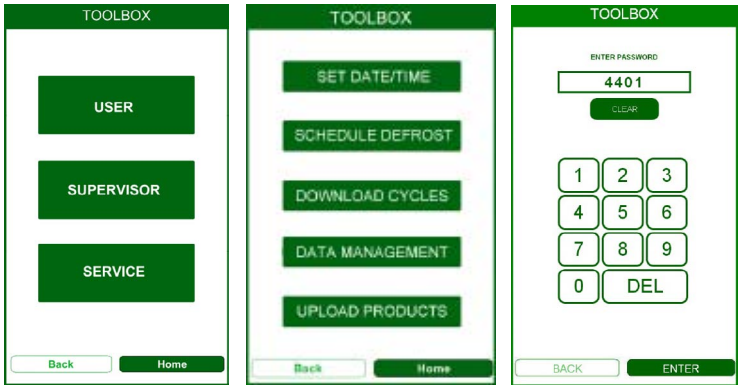
The Toolbox

The toolbox allows the operator to adjust the default operating parameters, update control software, retrieve past chill cycle data, and monitor chiller operation.

To access the **TOOLBOX** press the toolbox icon on the **MANUAL** menu. The **ACCESS LEVEL** screen will appear. Some areas of the control are password protected. Selecting a secure area will prompt a keyboard to appear on the display. The default password for the **SUPERVISOR LEVEL** is 1234, and for the **SERVICE LEVEL** is 4401.



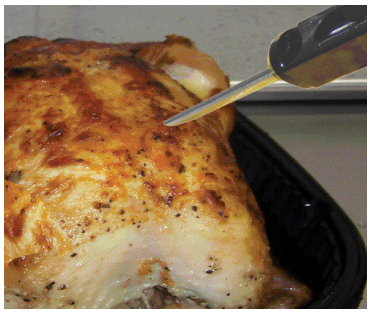
The most common operations are included inside the non password protected **USER** menu.

Automatic cycle start insures proper operation and safe food!

Placing Probes/Loading Pans

Basic Probe Placement

1. Place probes into thickest part of the product.
2. With product like chicken the probe should not be placed where it is touching bone.
3. With full pans of product such as casseroles locate the probe in pan center.
4. In all cases probe tip should not touch pan bottom.



Properly Placed Probes

NOTE

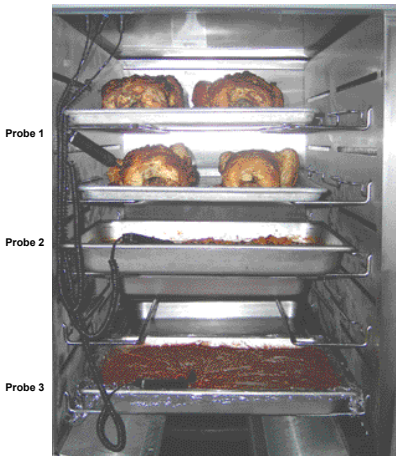
Using probes with small size products (like chicken strips) is not recommended. See **CHILL BY TIME** for correct chilling method.

Probes & Multi-Batching

1. It is OK to load more than one type of product.
2. When loading more than 3 pan levels it will be necessary to group like products together, using one probe for each product group (see example at right).

Proper Probe Placement for Multi Batching

Probe 1: Grouped product (2 pans whole roast chicken)
Probe 2: Other Product One (1 pan chicken cutlets)
Probe 3: Other Product Two (1 pan baked beans)



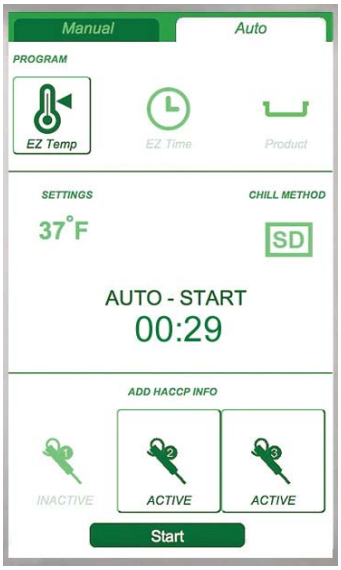
Covering Product

1. Covering product is recommended but not absolutely required.
2. If used, plastic wrap/aluminum foil must be placed in direct contact with product surface.
3. Some starch products are likely to dry out if not covered (ex. mashed potatoes, pasta, rice, cous cous, etc.).
4. Covering is recommended to prevent drying if product will not be removed when done or left inside overnight.

Starting a Chill Cycle Using Auto Mode

Auto Mode Intended Operation

Traulsen's TBC blast chiller is designed to operate in one of two modes, AUTO and MANUAL. AUTO is intended for use by novice operators and those operations in which there is no variation in chilling needs. It does not require for any buttons to be pushed. Proper placement of the probe into hot product will cause a chill cycle to commence. Chilling will continue until the product core reaches the target temperature of 37 degrees F.



To Start a Blast Chill Cycle Using Auto Mode

1. Place hot product into the blast chiller.
2. Insert one of more probes into product.
3. Close the door. The display will begin counting down from 30 and upon time elapsing will commence chilling.

OPTIONAL: Prior to cycle start, press any active probe on the display to enter product and user names from a drop down list.

To Add Additional Products/Probes to a Chill Cycle Already in Progress

1. Place additional hot product into the blast chiller.
2. Insert one of more probes into product.
3. Close door. The newly added probe(s) will appear on the display and the chill cycle will now continue until these probes have reached their target temp.

NOTE: This can be repeated as as long as there is an available probe.

NOTE: Traulsen's blast chillers are solely intended for blast chilling, and not for use as holding cabinets.

Starting a Chill Cycle Using Manual Mode

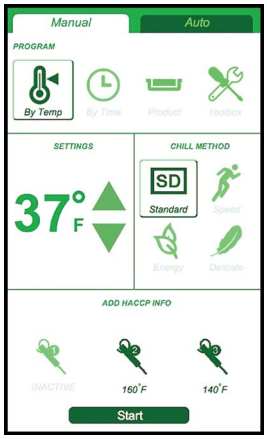
Manual Mode Intended Operation

The TBC's second mode of operation is MANUAL. MANUAL is intended for use by advanced operators and those operations which have much variation in their chilling needs. It requires some buttons to be pushed. Upon completing cycle programming and pressing START, chilling will commence and continue until the product core reaches the operator adjustable target temperature or time.

To Start a Blast Chill Cycle Using Manual Mode

The IDLE Screen

1. Place hot product into the blast chiller.
2. Insert one of more probes into product (not required for chill cycles to be done by time).
3. Close the door.
4. Press the **MANUAL** tab at the top of the display.
5. If default settings are OK press **START**. Otherwise select from **TEMP**, **TIME** or **PRODUCT**:
   - **TEMP**: chill cycle ends upon reaching target temp (requires use of probes).
   - **TIME**: chill cycle ends upon time elapsing (does not require use of probes)..
   - **PRODUCT**: chill cycle runs based upon preloaded parameters for a given product name.
6. Adjust target **TEMPERATURE** or **TIME**.
7. Select chill method:
   - **SD**: standard blast chill/freeze.
   - **SPEED**: provides for faster chilling.
   - **ENERGY**: provides for energy saving operation.
   - **DELICATE**: for use with products prone to freezing.



The MANUAL Screen

OPTIONAL: Prior to cycle start, press any active probe on the display (or press a zone if chilling by time) in order to enter product and user names.

8. Press **START** to begin a cycle using these settings.

To Add Additional Products/Probes to a Chill Cycle in Progress

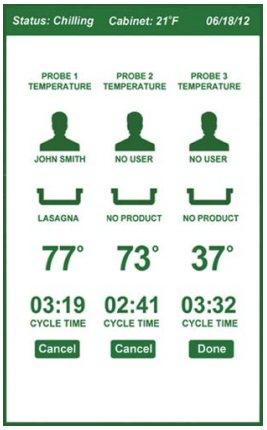
1. Place additional hot product into the blast chiller.
2. Insert one of more available probes into product.
3. Close door. The newly added probe(s) will appear on the display and the chill cycle will now continue until these probes have reached their target temp.

NOTE: This can be repeated as as long as there is an available probe.

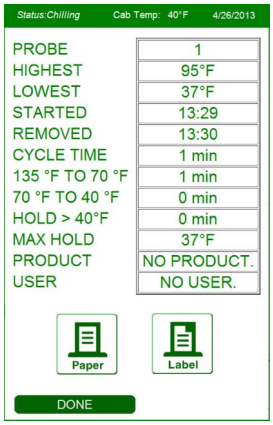
Printing/Data Management

Printing Cycle Data

When one or more probes reach the target temperature or time, an alarm will sound for 20-seconds and DONE will appear on the display under the appropriate probe or zone.



The RUN screen at cycle's end



The PRINT Screen

To Retrieve Data and/or Print

1. Press **DONE**. The print screen for that probe or zone will appear on the display. All HACCP data appears on the screen for manual logging.

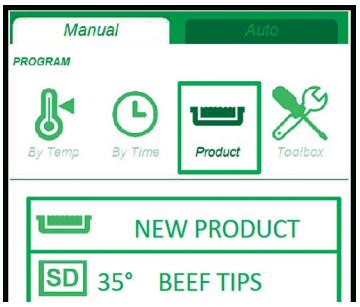
OPTIONAL: Press **NO PRODUCT** and/or **NO USER** in order to input thproduct and user names if not done earlier.

2. Press **PAPER** in order to receive a cycle data printout.
3. Press **LABEL** in order to receive an adhesive label for the product containers (for chillers equipped with the optional label printer only). Repeat for additional labels.
4. Press **DONE** for the next probe or to return to the run or idle screens.

NOTE
Sanitize probes after each use.

Saving Recipes

The epicon control allows you to program individual chill recipes, by name. These are saved to the **PRODUCT** file shown on the **MANUAL** menu screen.



1. Press **MANUAL** then **PRODUCT**.
2. Select **NEW PRODUCT** from the drop down menu.
3. A keyboard will appear, type in the **PRODUCT NAME** and press **ENTER**.
4. Select to by **TEMP** or **TIME**.
5. Adjust **SETTINGS** and select **CHILL METHOD**.
6. Press **SAVE** to save this to the Product Menu.

Chilling Without Probes

1. Press **MANUAL** then **TIME**.
2. Adjust the target time.
3. Press any time zone. A keyboard will appear. Type in the **PRODUCT and USER** names (or press **SKIP**) then press **ENTER**.
4. Press **START** to begin a chill cycle using these settings.

Care & Cleaning

NOTE: Never place wet and/or sanitized pans or utensils inside the chiller!

Probes

1. Remove probes by turning the circular locking ring which secures these inside the chiller (fig. 1).
2. Wash/sanitize probes (fig. 2). Probes can be totally immersed in water during cleaning.
3. Allow probes to air dry before replacing in chiller.

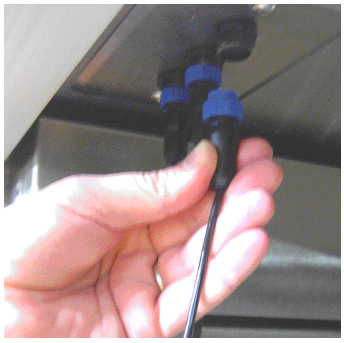


fig. 1

fig. 2

Interior/Exterior

1. Disconnect power supply.
2. Clean both interior and exterior with a soft cloth as you would any other stainless steel surface.
3. Do **NOT** use cleansers containing chlorine.
   Do **NOT** clean with anything abrasive.
   Do **NOT** hose off the blast chiller.

Condenser

Cleaning this is critical to insuring proper performance and long compressor life.

1. Disconnect power supply.
2. Lift-up or remove louvers covering coil location:
   - **TBC5:** Front/Left
   - **TBC13:** Front/Bottom
   - **TBC1H:** Front/Top
3. Wipe coil fins clear of any dust/debris using a dry cloth or stiff bristle brush (fig. 3).
4. Replace louvers.
5. Restore power

fig. 3

Changing The Paper and/or Label Rolls

1. Open printer door or remove cover (older models).
2. Remove empty paper roll and spindle. Replace with new paper or label roll. Be sure to load paper with the thermal side facing up.
3. Lift feed roller tension arm.
4. Place paper edge on feed roller.
5. Close feed roller tension arm.
6. Press the red button to feed paper through the printer.
7. Close printer door or replace cover.

Printer Supplies:
Paper: Traulsen P/N 400-60003-00 • Office Depot #302-224 • Staples #PMF-5233
Label: Traulsen part number 400-60004-00. Each roll contains 225 labels.

Troubleshooting

SYMPTOM	POTENTIAL CAUSE	SOLUTION
1. No display on control.	a. No power to unit. b. System problem.	Check power supply and circuit breaker. Call for service.
2. Batch requires too much time to chill product down target temperature or time.	a. Door not closed properly. b. Too much product loaded. c. Product depth in pan exceeds 2”. d. Pan been covered with a lid, plastic wrap or foil, and is this not in direct contact with the product. e. Product loaded is of a high density. f. Dirty condenser coil. g. Evaporator coil iced.	Close door completely. Adjust the load to not exceed capacity of the unit. Reduce pan load. Cover product correctly. Allow additional chilling time. Clean condenser coil. Allow chiller to defrost.
3. Auto mode does not appear to work when placing probe in hot product.	a. Probe not available. b. Probe not placed in product. c. Food probe placed in product below 90° F. d. Damaged or defective food probe.	Press DONE to release probe for use. Place probe in product. Manually program cycle and select probe. Replace with new food probe.
4. Chill cycle starts with no. product present	a. Door open. b. Hot product inside but no probe placed.	Close door. Press CANCEL then place probe to start cycle.
5. Unwanted product freezing.	a. Previously chilled product not removed. b. Chill cycle By Time set for too long. c. High water content food (ex. soup).	Remove DONE product before starting a new chill cycle. Reduce cycle time. Use DELICATE method.
6. Food drying out during chilling.	a. Food chilled uncovered.	Cover food before placing in chiller.
7. Printer not printing.	a. Printer is out of paper. b. Printer paper installed incorrectly. c. Paper does not feed or jammed.	Replace printer paper. Reload paper with the thermal side up. Remove paper and reinstall correctly.
8. Condensation on exterior surface.	a. Door out of alignment or gasket issue. b. Door sweep worn/out of adjustment (TBC1H). c. Electric door heater malfunction.	Check door alignment and gasket for proper seal. Adjust/replace door sweep. Call for service.
9. Upon starting a chill cycle, the product temperature displayed appears cooler than expected (cooked) temperature.	a. Varied product temps within batch. b. Probe placed incorrectly. c. Small mass product (ex. chicken tender). d. Product held at room temp too long.	Verify actual product temp using a manual thermometer. Relocate probe. Use chill by time. Verify actual product temp using a manual thermometer.

Glossary of Icons

By **TEMP** chill mode

STANDARD chill method

USER name

Time **ZONE**, numbered 1-2-3

By **TIME** chill mode

SPEED chill method

PRODUCT name

Print **RECORD**

By **PRODUCT** chill mode

DELICATE chill method

DEFROST cycle in progress

The **TOOLBOX**

ENERGY chill method

Food **PROBE**, numbered 1-2-3

Print **LABEL**

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