

CAT Series CAT507 CAT509 CAT522 CAT529 CAT529-BD CAT529-BDR





## welcome

Thank you for your purchase of a Winston CVap® Thermalizer. The benefits you will enjoy from this cabinet include precise doneness temperatures, greater yields, safer foods, reduced labor, and superior food quality.

This cabinet utilizes Controlled Vapor Technology (CVap). Using a combination of dry and moist heat, CVap cabinets are

capable of producing foods at the precise temperature and moist or crisp texture desired.

If you have any questions, or if anything cooked in your CVap Thermalizer doesn't meet your satisfaction, please call our Customer Service Center at 1.800.234.5286, or email us at customerservice@winstonind.com.

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Please read this entire use & care manual before operating your CVap therm & hold cabinet. The manual contains important safety information and operating instructions.

As is the case with most cooking appliances, your CVap cabinet should be used with caution. Please read the following warnings to avoid potential injuries.

### **A DANGER**

#### **Electrical Hazard**

Can cause serious injury or death. Do not attempt to install or service this equipment unless you are a licensed electrician or trained servicer.

- Because this equipment utilizes high voltage, it should only be installed and serviced by a licensed electrician or trained servicer. Attempting to install or service the equipment yourself could result in serious, potentially fatal injuries.
- 2. If an electrical shock is felt when touching equipment, shut off power immediately (unplug cord or turn off circuit breaker) and call a trained servicer for repair. Failure to do so could result in serious, potentially fatal injuries.
- 3. Always turn power switch off any time equipment is not in use.

## AWARNING

#### **Burn Hazard**

Can cause serious injury. Avoid heated vapor when opening or closing equipment door.

4. This unit utilizes heated water vapor, which transfers heat much more quickly and efficiently than dry air of the same temperature. Use caution when opening doors or reaching into the unit, as heated vapor can quickly cause burns.

## **AWARNING**

#### **Contamination Hazard**

Can cause serious illness or damage to equipment.

Clean equipment daily to avoid potential contamination hazard.

- Clean equipment daily to prevent food residue or chlorides (salts) from accumulating, which can damage stainless steel and contaminate food. Failing to follow proper cleaning procedures can void your warranty.
- Prior to using equipment for the first time, perform the daily cleaning procedure found on pages 18 and 19.

## **ACAUTION**

### **Burn Hazard**

Can cause injury.

Allow 30 minutes for equipment to cool before attempting to clean.

7. Always allow equipment to cool before cleaning.

## ACAUTION

### **High Temperature and Grease Hazard**

Can cause damage to equipment.

Avoid placing equipment near high heat or in grease laden atmosphere.

Don't place equipment in an area where air temperatures exceed 100°F (38°C). A heat shield may be required to prevent heat exposure and grease laden vapors from affecting the equipment. Excess heat and grease inside the equipment cavities can cause electrical components to fail.

### receiving your cabinet

### **Shipping Damage**

Examine equipment thoroughly for shipping damage before, during and after unloading. All Winston products are carefully inspected and verified to be in good condition before leaving our factory. The carrier delivering your cabinet has assumed responsibility for its safe arrival. If you notice any damage (obvious or hidden), a claim must be made to the carrier.

### **Obvious Loss or Damage**

Please note any obvious loss or damage on the freight bill or express receipt, and have the carrier's agent sign to acknowledge the claim. The carrier will supply the necessary forms. If you do not obtain and complete the forms before the carrier's agent departs, the carrier might refuse your damage claim.

### **Concealed Loss or Damage**

Sometimes loss or damage is not obvious until the product has been unpacked. If you notice damage that was concealed by packaging or crating, contact the carrier in writing to notify them of the damage. The carrier should agree to inspect the damage within 15 days. Please retain all packing materials. The carrier will supply an inspection report and the required claim forms.

### **Physical**

Casters are non-marking; back casters are non-locking, front are locking.

### **Water Supply**

In order to operate properly, the evaporator in this cabinet must be filled with clean, potable water. Hardware is included to connect the cabinet to a copper line in your facility's water system. If your facility has plastic or galvanized pipes, contact a licensed plumber to connect the water supply. Equipment should be installed to comply with applicable federal, state, or local plumbing codes.

Units with automatic water fill systems are to be installed with adequate backflow protection to comply with federal, state, and local codes.

As water evaporates, any minerals in the water will deposit on the surface of the evaporator. These mineral deposits will inhibit the transfer of heat. Deposits can also degrade and damage stainless steel. The best way to avoid mineral deposits is to clean the unit daily. It is also advisable to contact your water utility for advice on minimizing deposit buildup. Experience has shown that leaks will occur by failing to clean and rinse the evaporator daily. Leaking evaporators are not covered under warranty.

To remove the plastic tubing from the water

Model	Height with 3" Caster (IN/MM)	Width (IN/MM)	Depth (IN/MM)	Weight (LBS/KG)
CAT507	36.2/919	27.6/701	34.5/876	215/98
CAT509	41.2/1046	27.6/701	34.5/876	235/107
CAT522	76.1/1933 (5" casters)	27.6/701	34.5/876	410/187
CAT529	76.1/1933 (5" casters)	35.5/902	34.5/876	450/203
CAT529-BD	78.7/1998 (5" casters)	35.5/902	34.5/876	560/252
CAT529-BDR	78.7/1998 (5" casters)	35.5/902	34.5/876	560/252



### installing auto water fill

line connector, use your fingers to carefully press the small brass capture ring in toward the body of the connector. Then gently pull the tubing out of the connector. To insert tubing back into connector, push the tubing fully into the connector. Once seated, try to pull the tubing out of the connector so that the capture ring comes out (about 1/16" (1.6mm)) and the tubing cannot be removed. See drawing below. Auto Water Fill Systems must be hooked up to a potable water supply line. Winston RECOMMENDS that the tap valve included with the kit be attached to cold water, copper, brass or steel line (the valve can handle any size line from 3/8" to 1" (9.5mm to 25.4mm)). The maximum incoming water temperature may not exceed 140°F (60°C) and the incoming water pressure must be between 20 and 150 psi (1.4 Kqf/cm2 to 10.5 Kqf/cm2 (kilogram-force per sq. centimeter)). **CAUTION: Units with auto water fill** 

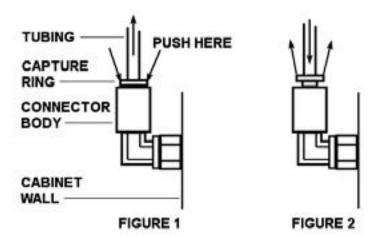
## ACAUTION

### **High Temperature Hazard**

Can cause damage to equipment. Fill evaporator with water prior to turning power on, and do not allow evaporator to run dry.

systems MUST NOT BE ALLOWED TO RUN DRY. Heat damage to the water valve may result.

It is the responsibility of the owner and installer to make sure that installation complies with all applicable local and state plumbing codes.



PUSH BRASS CAPTURE RING AGAINST CONNECTOR BODY BEFORE REMOVING TUBING. WHEN PLACING TUBING BACK INTO CONNECTOR, PUSH TUBE <u>FULLY</u> INTO CONNECTOR AND MAKE SURE CAPTURE RING IS FULLY EXTENDED.

### electrical

The equipment is shipped from the factory with a 84" (2134mm) (minimum) power cord and plug. Refer to the table below to determine the correct electrical outlet. It may

be necessary to hire a licensed electrician to install the correct outlet or wiring. Winston does not recommend hard wiring the equipment direct.

Below is electrical information for various models of Winston's CVap therm & hold cabinet.

Model	Volts	Hertz	РН	Amps	Watts	Circuit Amps	Plug Type
CAT507	208	60	1	36.8	7655	50	US/CAN 6-50P
	208	60	3	23.7	7655	30	US/CAN 15-30P
	240	60	1	31.9	7655	50	US/CAN 6-50P
				Int	ernational		
	230*	50	1	33.3	7655	N/A	N/A
CAT509	208	60	1	36.8	7655	50	US/CAN 6-50P
	208	60	3	23.7	7655	30	US/CAN 15-30P
	240	60	1	31.9	7655	50	US/CAN 6-50P
International							
	230	50	1	33.3	7655	N/A	N/A
CAT522	208	60	3	33.7	11215	50	US/CAN 15-50P
	240	60	3	29.2	11212	50	US/CAN 15-50P
Not available for the international market at this time.							
CAT529	208	60	3	33.7	11215	50	15-50P
	240	60	3	29.2	11215	50	15-50P
	Not available for the international market at this time.						
CAT529-BD	208	60	3	33.7	11215	50	15-50P
& BDR	240	60	3	29.2	11215	50	15-50P
	Not available for the international market at this time.						



### ventilation requirements

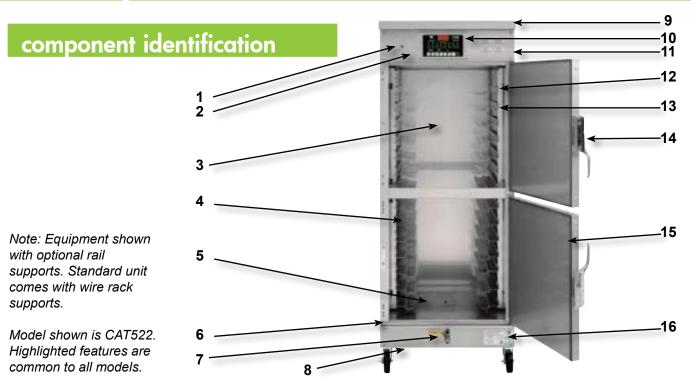
Ventilation clearances - To operate properly, the thermalizer will need sufficient space for air circulation. Allow at least 2" (51mm) clearance on all sides of the cabinet, particularly around ventilation holes. Care should be taken to prevent placing the cabinet close to anything combustible. It must be installed with its supplied legs, feet, or casters. Counter top units specifically supplied without legs or casters may be set directly upon a counter top of noncombustible material. In this situation, the unit may have to be sealed to the counter top with a food-grade silicone sealant (check local health codes). Half size units may be stacked upon each other using only a Winston supplied stacking kit and following the instructions enclosed with the kit. Your warranty may be void if you do not adhere to these ventilation requirements.

## **ACAUTION**

**High Temperature and Grease Hazard**Can cause damage to equipment.
Avoid placing equipment near high heat or in grease laden atmosphere.

Do not place equipment in an area where air temperatures around the equipment exceed 100°F (38°C). A heat shield may be required to prevent excessive heat exposure and grease laden vapors from affecting the equipment if adjacent to heat, vapor, or grease generating devices (such as grills, steamers, cabinets, etc.). Excess heat and grease inside the equipment cavities may cause electrical components to fail.

**Vent hood** - Generally this equipment does not need to be installed under a mechanical ventilation system (vent hood). Check local health and fire codes for specific requirements.



- 1. **Power Switch** allows operator to turn electrical power on and off.
- Microprocessor Controller allows operator to select one of eight multiinterval programmable cycles
- 3. **Food Chamber** cooking cavity where the dual heat system combines to create the perfect cooking environment.
- Adjustable Rack Support supports racks onto which food is placed.
- Evaporator and Heater (not visible) supply vapor atmosphere to the food chamber by heating water within the evaporator.
- 6. **Drain Trough** carries water that has condensed onto door back to evaporator.
- 7. **Drain Valve** enables operator to drain evaporator, to perform daily cleaning.

- 8. **Bottom Cover** (not visible) provides service access.
- 9. Top Cover provides service access.
- Control Escutcheon is removable for servicing or replacing microprocessor.
- Side Panels support insulation and form outside of cabinet.
- Rack Support Bracket receives rack support.
- 13. **Air Heaters** (not visible) supply air heat for food texture control.
- 14. **Door & Latch** can be reversed on site.
- 15. **Door Gasket** seals food chamber against heat or vapor loss.
- 16. Name Plate identifies model and serial number- important for servicing and parts orders. Plate also displays electrical data.



- Power Switch controls electrical power to the cabinet.
- Mode Buttons (cook / retherm / hold channels) provide operators with the ability to select desired mode of operation. Long press of these buttons allows operator to cancel out of a cook, retherm, or hold cycle. Buttons are numbered 1 through 8.
- Digital LED Readout displays chosen setpoints for food temperature, food texture, and cook time as the cabinet is programmed. After pressing Start/Stop button, the display indicates the remaining time in each portion of the cooking process.
- 4. **LED Program Lamps** indicate which mode is selected when illuminated above that button.
- 5. **Start/Stop Button** is used to start or stop the selected mode of operation. A long

- press from **IDLE** allows the operator to enter programming mode.
- Food Temperature Up (▲) and Down (▼) Buttons. Short press either button to adjust temperature.
- Food Texture Up (▲) and Down (▼)
   Buttons. Short press either button to adjust the level of moistness or crispness in food.
- 8. Time Up (▲) and Down (▼) Buttons. Short press either button to adjust cook time.
- HACCP Button enables user to check current HACCP-relevant conditions inside the cabinet. provides operator the ability to check current food temperature (E=evaporator), food texture (A=air), dry air (D=differential), relative humidity (H), or probe (P) at any time during the cycle (see page 10). This button provides HACCP data recall for Gold and Platinum edition controls.



What's the difference between a long press and a short press?

Short Press - Press button, hold for less than 1 second.

**Long Press** - Press button, hold for more than 1.5 seconds.

### daily operating procedure

## **AWARNING**

#### **Contamination Hazard**

Can cause serious illness.

Clean equipment prior to first use, to remove traces of industrial chemicals and oils.

Prior to using equipment for the first time, perform the daily cleaning procedure listed on pages 18 and 19.

- Prepare unit for cooking/ retherming/ holding. Adjust rack supports in retherming cavity if required.
- 2. Fill evaporator with 3.5 gallons (13.3 liters) of water prior to operation. We recommend filling manually at first, rather than waiting for the auto fill to fill it. Tip: Speed up initial cabinet preheat by using hot water (do not use water that's hotter than the desired food temperature. Locations with hard water should add one tablespoon white vinegar or lemon juice to water in evaporator to help prevent scale buildup. You may want to seek advice from your local water authority concerning possible water treatment necessary for the protection of the unit. Some water supplies are high enough in chemical content to be capable of destroying stainless steel if used untreated. The evaporation process can concentrate the chemicals to a level which causes a high interaction with stainless steel. When water is of unknown quality, automatic fill units should be connected to the water source through a deionizer/demineralizer. Experience has shown that leaks will occur by failing to clean and rinse the evaporator daily. Leaking evaporators are not covered under warranty.

3. Operating and Programming Functions
<u>Using Preprogrammed Settings</u>

#### **Preheat**

- A. Turn Power Switch on. **IDLE** will display on the LED readout until operator selects mode. **Note: Unit will not preheat until program button is selected**.
- B. Select the desired preprogrammed mode (short press); Buttons 1-8 (refer to guidelines on pages 13 through 15 for suggested cook/ retherm cycles). A red light will appear above the selected button. Food temperature and food texture settings have been preprogrammed for each button 1-8 in the default mode. The operator must program a time value to initiate the timer function.
- C. Once a button is selected, the cabinet will enter a Preheat mode and display **PRHT** on the LED display.
- D. When the cabinet reaches the selected channel's food temperature and food texture levels, the word LOAD will display on the LED, and a five-second alarm will sound.

### Load Cabinet / Cook / Retherm Cycle

- A. Load cabinet with desired product.
- B. Check time value to ensure it is correct (see check values description). Press the time ▲ and ▼ buttons to program a cook / retherm time (refer to suggested guidelines on pages 15-17).

- C. Long press Start/Stop button to start the timer. The programmed cook / retherm time will display with a flashing colon. Cook/retherm time cycle will then count down.
- D. When timer reads 00:00, a five-second alarm will sound and cabinet will automatically enter hold mode (hold food temperature and food texture settings are preprogrammed at the factory for buttons 1-8 in the default mode, time is indefinite). **Hold** will display until operator cancels program. Refer to guidelines on pages 15 through 17 in the right hand column.

### **Hold Cycle / Unload Cabinet**

- A. When the cook/retherm mode is complete, an alarm will sound, and the LED will display **HOLD** and **time value counting up**. Food will continue to hold at preprogrammed settings until Start/Stop button is pressed.
- B. Either remove food product after cook / retherm cycle is complete and alarm sounds, or allow food to hold for food production flow and flexibility. We recommend that you open the door for one to five minutes after cook/retherm cycle when selecting buttons 1 through 7. This will help prevent overcooking.
- C. Button 8 in the default mode is pre-programmed as a dedicated Hold Mode. Use this button to operate the unit as a holding cabinet. Program time value for total time needed. Note: Default setting is ten hours. You can use the Time up or down buttons to initiate a timed cycle, or as an egg timer. Time will

count down to zero, then an alarm will sound until you add time or reset cycle. To reset, depress Button 8, or other channel button. To cancel cycle, depress channel button. The Start/Stop button is non-active in this setting.

### Canceling a Cycle

To cancel a cook/retherm cycle in at any point in the cycle:

A. Long press the selected button. The red light will go off and unit will revert to **IDLE** on the LED display.

or

B. Long press the Start/Stop button. Unit will revert to **IDLE** on the LED display.

### **ELEC Message on LED**

If the LED is displaying **ELEC** it indicates there has been a power interruption. This can occur if there is an interruption to the electrical power being supplied to the equipment (a blackout), or if equipment's power switch is turned off during a cycle. To remove **ELEC** message, **long press** the Start/Stop button until the LED display reads **IDLE**. Proceed with normal application.

## AWARNING

### **Temperature Hazard**

Can cause serious illness. Verify that food temperature has not fallen into the danger zone.

If power is interrupted for an extended period, food temperature can drop out of the safe zone. Ensure that appropriate HACCP standards have been maintained prior to serving.

### 4. Programming Instructions

Winston's control enables the operator to manually program a cook or retherm cycle and hold cycle for each of the channel buttons (1-8). See description below for description of programming modes.

E1 =Food Temperature button / Temperature of moist heat cook/ retherm cycle.

Food Temperature button / Ehold = Temperature of moist heat hold cycle.

Food Texture button / Total oven A1 =temperature of cook retherm cycle.

Ahold = Food texture button / Total oven temperature of hold cycle.

T1 =Cook/retherm time Cnst = Infinite hold time

| Channel  |
|----------|----------|----------|----------|----------|----------|----------|----------|
| Button 1 | Button 2 | Button 3 | Button 4 | Button 5 | Button 6 | Button 7 | Button 8 |
| El       | E1       |
| E Hold   |
| A1       |
| A Hold   |
| Tl       | Tl       | Tl       | T1       | Tl       | Tl       | Tl       | Tl       |
| CnST     |

A. Long Press the Start/Stop button. START LED will display PROG (Program).



- B. Short press desired channel button (1-8) to program. LED will light above chosen channel button.
- C. To program intervals **E1**, **E HOLD**: Depress the Food Temperature **▲** and **▼** buttons. **E1** will display, followed by the temperature values. Using the arrows, select desired temperature. Depress the channel button to move to Ehold interval. Depress the ▲ and ▼ buttons. Ehold

will display, followed by the temperature values. Using the ▲ and **▼** buttons, select desired temperature.

- D. To program intervals A1, A Hold: Depress the Food Texture ▲ and ▼ buttons. A1 will display, followed by the temperature values. Using the A and ▼ buttons, select desired temperature. Depress the channel button to move to A Hold interval. Depress the Food Temperature ▲ and ▼ buttons. A HOLD will display, followed by the temperature values. Using the ▲ and ▼ buttons select desired temperature.
- E. To program interval T1, depress the Time ▲ and ▼ buttons. T1 will display, followed by the time values. Using the ▲ and ▼ buttons, select desired times.T1 is only programmed using E1 and A1.

### 5. Constant Cook Programming Instructions

To program the oven to continuously cook (CnST), depress the Time ▲ or ▼ buttons until display reads CnST. NOTE: When programmed, CnST will allow constant cooking or retherming and NO HOLD cycle.

NOTE: This also activates the egg timer. To cancel cycle, depress channel button. Start/Stop button is non-functional in this mode.

- 6. Egg Timer Operation (only available when no hold values are selected, E Hold, A Hold)
  - A. Count-down timer is independent of heat control.
     To set egg timer, press the Time ▲ and ▼ buttons.



- B. When timer reaches 00:00 value, alarm will sound. The alarm may be disarmed by a short press of the Time ▼ button. The equipment will not enter an automatic hold.
- C. Egg timer will read **CnST** + value.

To cancel cycle, depress channel button. Start/Stop button is non-functional in this mode.

### 7. Set Delay Timer

The delay timer enables the operator to specify an amount of time before the oven will enter preheat mode.

A. To enter DELAY programming, while in IDLE, long press the Time ▲ button.



- B. The LED display will read dLay.
- C. Select the channel button to cook, retherm, or hold. LED light will illuminate over the button number.
- D. Using the Time ▲ and ▼ buttons, program the number of hours to preheat.



START

- E. Short press Start/Stop button.
- F. Display will alternate between **dLay** and the amount of time remaining until preheat.

- G. At the specified time, delay mode will automatically engage heaters and enter a preheat mode for selected channel.
- H. Delay timer may be canceled with a long press of Start/Stop button, returning the cabinet to IDLE mode.

### 8. To Check Cycle Settings

- A. To view current temperature, short press HACCP button. The LED will read the evaporator (E) temperature, differential (D) temperature, air (A) temperature, in order, displaying each reading consecutively for five seconds.
- B. To view programming settings, depress channel button (1–8) and long press Food Temperature ▼ button. The LED display will read the following values: E1, E hold, A1, A Hold consecutively.

## **Quick Operating Procedures Using Factory Preprogrammed Settings**

Here are some tips for operating your CVap<sup>®</sup> therm & hold cabinet.

To select mode – Press desired channel button (1–8). Red LED lamp will light above selected channel.

To start retherm mode – When display shows LoAd, add food, program time (using Time ▲ and ▼ buttons), and then press long press Start/Stop button.



To check temperature – Water (evaporator) temperature may be checked at any time during a cycle by pressing the HACCP button. Current water temperature will be displayed. Press the HACCP button again to display differential temperature between water and air. Press the HACCP button a third time for total water and air temperature. Press HACCP button a fourth time for HACCP food probe (if applicable). Press HACCP button a fifth time for relative humidity.

To cancel cycle – Any cycle may be cancelled by long pressing the Start/
Stop button of selected mode after cycle has been started. IdLE will be displayed and cabinet will not heat until a mode has been selected.

For any of the following three functions, make certain the control reads "idLE."

To change from Fahrenheit to
Centigrade - Press and hold the
Food Temperature ▼ button and
Food Texture ▲ button at the same
time, and then toggle the Food
Texture ▲ button to CENT or
FAHR.

To disarm low water alarm – hold down both Food Temperature ▲ and ▼ buttons and toggle.









To set RTC-Clock setting – From the Idle mode, long press the Time ▲ and ▼ buttons. Toggle the Time ▲ and ▼ buttons until time displays on the control LED. Press the Time ▲ and ▼ buttons to set the time to operator's local time (the default is Eastern Time Zone). After time has been set, wait 5 seconds for the control display to revert back to display IDLE. Note: Time is displayed in military time.

## **AWARNING**

### **Temperature Hazard**

Can cause serious illness. Verify that food temperature has not fallen into the danger zone.

### **ELEC Message on LED**

If the LED is displaying **ELEC**, this indicates there has been an interruption in power to the unit. This can occur if there is an interruption to the electrical power being supplied to the equipment (a blackout), or if the equipment's power switch is turned off in the middle of a cycle. To remove **ELEC** message, **long press** the Start/Stop button until the LED display reads **IDLE**. Proceed with normal application.

If power is interrupted for an extended period, food temperature can drop out of the safe zone. Ensure that appropriate HACCP standards have been maintained prior to serving.



### **Thermalizer**

## **Retherm Guidelines**

Dry Heat Total Oven Temperature	/Food Texture Menu		nerm utes) <sup>Frozen</sup>	Hold
Slow Moist Cook/Retherm 3 190 1940 (2) 230	Wrapped sandwiches, i.e., frozen/thawed hot dogs, hamburgers, chicken. BBQ items, i.e., pulled beef pork riblets, ground meat. Vegetables, i.e., frozen, canned, fresh vacuum - packed bags/chubs. Pizza (moist, soft crust no color, combination dishes i.e. lasagna/casseroles/eggs).	25-35	30-70	Auto Soft Moist Hol Food Temp 150°F (66 Food Texture 160°F (7
<b>Moist Bake</b> <b>3</b> 170 <b>1</b> 120 <b>1</b> 290	Pizza (moist with some browning), breakfast items i.e., pancake on stick, french toast, waffles, smiles, grilled cheese, hot pockets, pizza sticks, burritos, egg rolls, hashbrowns, fish patty, chicken patty, grilled proteins, biscuits, desserts, i.e., pies/rolls/bar cookies.	14-25	18-30	Auto Moist Bake Hold Food Temp 150°F (66 Food Texture 175°F (7
Moist Cook/Retherm  190 110 300	Fast bake pizza (moist with some browning), chicken patty, fish patty (whole meat product), wrapped sandwiches, i.e., frozen/thawed hot dogs, burgers, chicken BBQ items, i.e., pulled pork ribs, large proteins and combination foods, i.e., casseroles, vegetables (fresh, frozen, canned), desserts, such as, individual cookies, rolls, pies, cakes.	12-30	30-70	Auto Moist Hold Food Temp 150°F (66 Food Texture 160°F (7
Crisp Bake ☐ 150	Crisp chicken patty, fish patty, steak, popcorn/ breaded foods, french fries, potato products, items typically cooked in fryer (note: items must be bakable)	12-30	12-60	Auto Crisp Hold Food Temp 140°F (6) Food Texture 190°F (8)
Extra Crisp Bake 130	Bake-only fries, tater tots or extra crispy items.	12-30	12-60	Auto Crisp Hold Food Temp 130°F (5 Food Texture 190°F (8
<b>Rapid Retherm</b> ☐ 190	Baked potatoes, casseroles.	15-40	30-90	No Hold. Remove product when Retherm cycle completed
<b>Bake</b> <b>3</b> 170 <b>1</b> 80 <b>3</b> 50	Sheet cakes/pastries, general bake cycle.	20-60	60-300	Auto Bake Hold Food Temp 150°F (6 Food Texture 180°F (8
General Holding Cycle 3 150 30 (2) 180	Holding of foods with moist/firm texture.	Cons	stant	General Hold Food Temp 150°F (60 Food Texture 180°F (80



## **Retherm Guidelines**

**Thermalizer** 

Dry Heat  Total Oven Temperature/F	ood Texture	Retherm (minutes)	
	Menu	Thawed Frozen	Hold
Slow Moist			Auto Soft Moist Hold
Cook/Retherm ☐ 190			Food Temp 150°F (66°C Food Texture 160°F (71°
Moist Bake			Auto Moist Bake Hold
<b>3</b> 170 <b>1</b> 20 <b>29</b> 0			Food Temp 150°F (66°C Food Texture 175°F (79°
Moist Cook/Retherm			Auto Moist Hold Food Temp 150°F (66°C
<b>190 110 300 10 10 10 10 10 10 10 </b>			Food Texture 160°F (71°
Crisp Bake			Auto Crisp Hold
<b>1</b> 50 <b>0</b> 200 <b>△</b> 350			Food Temp 140°F (60°C Food Texture 190°F (88°C)
Extra Crisp Bake			Auto Crisp Hold
<b>1</b> 30 <b>0</b> 220 <b>△</b> 350			Food Temp 130°F (54°C Food Texture 190°F (88°
Rapid Retherm			No Hold.
<b>190 150 △</b> 350			Remove product when Retherm cycle is completed
Bake			Auto Bake Hold Food Temp 150°F (66°C
<b>170 180 △</b> 350			Food Texture 180°F (82°
General Holding			General Hold Food Temp 150°F (66°C
Cycle (3 150 (3 30 (4) 180)			Food Texture 180°F (82°



## **Roasting Guidelines**

### **Thermalizer**

•		herm	Desetion Time	Hold		
Menu	Food Temp	Food Texture	Roasting Time	Food Temp	Food Texture	
Top & Bottom Rounds			5.71	420°E	40E°E	
Rare	130-135°F 54-57°C	160-175°F 71-79°C	5-7 hrs. 30 minutes per lb.	130°F 54°C	135°F 57°C	
Medium	140-145°F	170-175°F	66 minutes per kg.	140°F	145°F	
Well-done	60-63°C 145-150°F	77-79°C 175-180°F		60°C 140°F	63°C 145°F	
Well-done	63-66°C	79-82°C		60°C	63°C	
	(30° differenti			10-0-		
Corned Beef	190°F 93°C	<b>250°F</b> 121°C	20 minutes per lb. 44 minutes per kg.	165°F 74°C	180°F 82°C	
(requires minimum 2-hour hold)	93 C	121 6	44 minutes per kg.	740	02 0	
Beef Brisket	190°F	220°F	20 minutes per lb.	165°F	180°F	
(requires minimum	88°C	104°C	44 minutes per kg.	74°C	82°C	
2-hour hold)						
Chicken						
Breast* 4-6 oz. (113-170g)	140-165°F	185-200°F	30-60 minutes	140°F	165°F	
NA/II.	60-74°C 140-165°F	85-93°C 300-350°F	45-60 minutes	60°C 140°F	74°C 165°F	
Whole	60-74°C	149-177°C	45-60 minutes	60°C	74°C	
Turkey (25-lb (11.3-kg)),	140-165°F	300-350°F	5 hours or	140°F	165°F	
whole or breast	60-74°C	149-177°C	12 minutes per lb.	60°C	74°C	
(recommend overnight for whole)			27 minutes per kg.			
Ham (football)	190°F	230-300°F	15 minutes per lb.	150°F	160°F	
Pork Ribs	88°C 190°F	110-149°C 230°F	33 minutes per kg.	66°C	71°C 165°F	
(requires minimum	93°C	230 F 110°C	2 - 2.5 hours	60°C	74°C	
1-hour hold)						
Hamburger	140-165°F	225-350°F	20 - 60 minutes	140°F	165°F	
Raw	60-74°C	107-177°C		60°C	74°C	
Fish/Seafood Filet	140-160°F	200-300°F	30 - 60 minutes	140°F	165°F	
	60-71°C	93-149°C		60°C	74°C	

• Time and temperature settings are recommended guidelines only. Due to variations in the products' quality, weight, and desired degree of doneness, the cooking times may need to be adjusted accordingly.

### daily cleaning

Required Cleaning Accessories & Supplies

- Pan for draining evaporator (unless utilizing floor drain)
- · Food grade germicidal detergent
- · Descaling agent

## **A DANGER**

#### **Electric Hazard**

Can cause serious injury or death.

If an electrical shock is felt during operation or cleaning, unplug equipment and have it serviced by a licensed electrician or trained servicer before placing back into service.

## **AWARNING**

#### **Contamination Hazard**

Can cause serious illness or damage to equipment.

Clean equipment daily to avoid potential contamination hazard.

Ensure safe operation by cleaning cabinet daily. Failure to do so can allow harmful deposits to develop, increasing the potential for food contamination, and endangering your customers.

## **ACAUTION**

#### **Corrosion Hazard**

Can cause damage to equipment. Clean equipment daily to avoid potential corrosion damage.

Clean evaporator daily to prevent chlorides (salts) from accumulating. Chlorides can cause the evaporator tank to corrode, to the extent that leaks can occur. Leaks caused by corrosion, which is caused by a failure to clean daily, are not covered under the manufacturer's warranty.

## **AWARNING**

#### **Contamination Hazard**

Can cause serious illness.

Clean equipment prior to first use, to remove traces of industrial chemicals and oils.

Prior to using equipment for the first time, perform the daily cleaning procedure listed on the next page.



### daily cleaning procedure

## <u>ACAUTION</u>

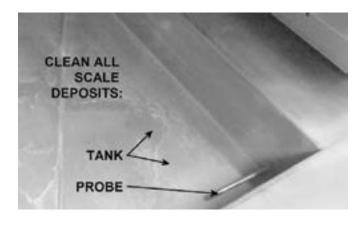
#### **Burn Hazard**

Can cause injury.

Allow 30 minutes for equipment to cool before attempting to clean.

Before each cleaning procedure, disconnect equipment from its electrical power source and allow to cool for at least one half hour.

- 1. Place empty pan under drain valve, open valve, and allow evaporator to drain.
- 2. Remove and clean rack supports using a food grade germicidal agent. Clean probe (if included) with mild soap and water.
- 3. Spray food chamber and evaporator with a food grade germicidal detergent.
- 4. Wipe inside surfaces to remove all food deposits.
- Inspect for scale build-up on tank surface, float, and probe. (see photo below). If present, apply descaling agent. Read ALL warnings and follow directions listed on descaling agent package.



- 6. Inspect heating elements (if exposed). The heating elements are stainless steel. If cleaning is needed, scrub with a Teflon® or nylon bristle brush to remove heavy food particles. Further cleaning may be done with a plastic scouring pad and alkaline based cleansers. DO NOT use wire brushes, scrapers, steel wool pads or chloride based cleansers. Follow cleanser manufacturer's instructions for use on stainless steel. Rinse well several times with clean water and wipe immediately.
- 7. Rinse all inside surfaces, including evaporator, and dry with clean towel.

## **AWARNING**

#### **Electrical Hazard**

Can cause serious personal injury or damage to equipment.

Avoid spraying equipment exterior or controls with water.

Do not spray outside of equipment or controls with water.

- 8. Rinse, dry, and replace rack supports.
- 9. Verify that valve is closed, and refill evaporator.
- 10. Reconnect equipment to electrical power and make ready for use.

### troubleshooting

We know how frustrating and costly it can be when a critical piece of equipment is down for repairs. It is our goal to minimize service disruptions, to get you back up and operating in the shortest time possible.

We carefully analyze all service calls. This analysis helps us to improve our manufacturing processes, and reduces product service issues. Generally speaking, most equipment failures can be attributed to the following three causes:

- Faulty use and care practices.
- Electrical supply problems.
- Equipment faults.

Please refer to the Troubleshooting Chart on the page 22 for common problems and solutions. If the problem you're experiencing isn't listed, or if the standard solution fails to resolve your problem, you will need a qualified servicer to diagnose and repair the problem.

If your equipment is still under warranty, or you are uncertain whether or not warranty is still in place, please call Winston Customer Service at 1-800-234-5286 (or 502-495-5400). Our friendly staff will help you verify coverage, and if under warranty, will arrange for a servicer to call on you.

If your equipment is no longer under warranty, or you are uncertain whether the warranty is still in place, please call Customer Service at 1-800-234-5286, or visit our website at **www.winstonind.com**, and click the Service tab to locate an authorized servicer near you.

In order to expedite service, please have the complete model and serial number (found on the equipment's identification tag) on hand when you contact us.

Service parts may be purchased directly from the factory online.

Visit www.winstonind.com

Please have the following information on hand when contacting Winston Industries regarding product service.

1.	Model	Serial #	
	(located on name plate)		
2.	Your name		
3.	Company name		
5.	Company phone		



SERVICE DARTS

### troubleshooting

## **ADANGER**

#### **Electrical Hazard**

SERVICE DARTS

Can cause serious injury or death.

Do not attempt to install or service equipment unless your are a licensed electrician or trained servicer.

DART NUMBER

This equipment utilizes high voltage, high temperature heating systems, and hot water vapor. If used improperly, any of these hazards can cause serious injury or death. To avoid the potential for an accident, please have cabinet installed by a licensed electrician, and serviced only by trained servicers. Please make these pages available to the servicer.

DART NUMBER

SERVICE PARTS	PART NUMBER	SERVICE PARTS	PART NUMBER
Ball Valve 1/4", for transport cabinets	PS2896	Heater Water 240V	PS2795
Bracket Mount Threaded Caster	PS2934-4	(1852 watts, 31.1 ohms)	
Holds Stem Caster New Style		Heater Air 208V (29)	PS2732
after 20060123-029		(2800 watts, 15.5 ohms)	
Bracket Mount Threaded Caster	PS2421-4	Mobile Water Removal	PS2696
Holds Stem Caster Old Style		Motor, Blower	PS2119
before 20060123-029		Motor, Blower	PS2100
Caster, 5" Locking	PS2142	(Before November 2004)	
Casters, 5" Non-Locking	PS2141	Motor Cooling	PS2098
Caster, 5" Lock & NLock Stem (29)	PS2343-4	O-Ring for Drain Cap	PS1280-3
Caster, 3" locking	PS2146	O-Ring for Float	PS1216-1
Caster, Swivel, non-lock, 3 T-Stem	PS2147	O-Ring for Heaters	PS1784-3
Casters 3" Non-Locking	PS2540-4	O-Ring for Water Inlet	PS1786-3
Casters 3" Plate Locking	PS2310	Power Cord	PS2346
Casters 3" Plate Non-Locking	PS2311	Power Switch	PS2304
Control Board 208/240V	PS2613	Probe, Air	PS2178
Control Board 208/240V, Stargazer	PS2964	Probe, Water	PS2177
Door handle, magnetic	PS1774	T-Stat Hi Limit	PS2750
Door Hinge	PS2116	Rails, Wire	PS2359
Door Relay Switch 3.62 Ohms	PS2991	Rails, Wire, (26 pack)	PS2359-26
Door Switch Stop Asm	PS2372	Relay 208/240 Three pole	PS1007
Fan Blade	PS2371	Main & Air Relay	
Floats	PS2669	Relay 208/240 Two pole	PS2460
Floats SS	PS2669SS	Water heater Relay	
Evaporator Cover	PS1806	ScaleKleen (24 pack)	PS2192-24
External Water Filter	PS2429	ScaleKleen (12 pack)	PS2192-12
Gasket, door (Top) (22)	PS2798	Top Cover Extension 11" (22)	PS2351
Gasket, door, bottom (22)	PS2799	Top Cover Extension 8.5" (22)	PS2553
Gasket (29-BD)	PS2796	T-Stat HI Limit	PS2750
Gasket, door, bottom	PS2150	Tube & Clamps	PS2586
Gasket, door, top	PS2151	Valve Saddle, Self Tapping	PS1251
Grommet, Large, door (6 pack)	PS1263-6	Valve Water Retro	PS2692
Grommet, Small, (6 pack)	PS1271-6	Upgrade from Plastic to Brass	
Handle-Magnetic	PS1774	Water Solenoid (208V)	PS2754
Heater Air 208V, 3 Phase	PS2766	Wheel Stems (29)	PS2540-4
(3004 watts, 14.4 Ohms)		Water Solenoid/Valve (Brass) 208/240V	PS2754
Heater, Air 240V	PS2714	Wire Oven Rack, Chrome Plated	PS2206-14
(1852 watts, 31.1 ohms)		Wire Oven Rack, Chrome Plated	PS2206-4
Heater, Water 208V	PS2174	Wire Oven Rack, Chrome Plated	PS2206-6
(1803 watts, 24 ohms)		Wire Rail, Chrome Plated	PS2980-1
		Wire Rail, Chrome Plated 26-pack	PS2980-28

## troubleshooting

	CORRECTION
Fuse blown Power cord not plugged in Faulty cordset Faulty power switch Evaporator (water) tank empty Food Temperature setting too high Food Texture setting too low Food Texture setting too low Door gasket defective	Adjust Replace Adjust Call servicer Call servicer Adjust, see pg. 10 Adjust, see pgs. 10-12 Adjust, see pgs. 10-12 Adjust, see pgs. 10-12 Adjust, see pgs. 10-12 Replace
	Power cord not plugged in Faulty cordset



### **Warranty and Terms and Conditions**

Limited 1 year Warranty (excluding gaskets, lamps, hoses, power cords, glass panels, fryer baskets, batteries, and evaporators). Warranty disclaimer for failure to clean.

WINSTON EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY OF MERCHANTABILITY.

Ask us for a complete warranty disclosure or go to:

www.winstonind.com/documents/4272V089\_zap\_warranty\_agreement.pdf

Terms and Conditions of Sale for Winston Industries' products are available here:

www.winstonind.com/documents/4272X833\_terms\_and\_conditions\_of\_sale.pdf

Both the Warranty and Terms and Conditions of Sale are integral to this document.

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