

# DCH-220 SQ

## Display Cabinet Heated

### Owner's Manual

Manufacturing Numbers:

9500731 & 9500732



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## Overview

The Antunes Display Case attractively displays your food and maintains it at ready-to-eat temperature. A convection fan (some models) circulates heat throughout the entire display cabinet while a digital temperature control maintains a constant temperature. Humidity water trays (some models) extend food holding times by reducing moisture loss.

Models DCH-100, DCH-200, and DCH-300 are primarily for meats and poultry products.

Models DCH-120, DCH-220, and DCH-320 are primarily designed for bread products.

## Before Use

This manual contains safety, installation, and operating procedures for the display cabinet. Read and understand it completely before installing or operating the display cabinet. Keep this document for reference. If the heated display cabinet changes ownership, this manual must accompany it.

## In Case of Damage

If the display cabinet arrives damaged, file a claim with the carrier immediately. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and are not covered under warranty.

## Website

[www.antunes.com](http://www.antunes.com)

## Service/Technical Assistance

### In Case of Damage

If any parts are missing or damaged, contact Antunes Customer Service immediately at +1-877-392-7856 (toll free).

If there are problems with the installation or operation of this product, contact Antunes Technical Service toll free at +1-877-392-7854.

Fill in the information in the next column and have it handy when calling for assistance. The serial number is on the specification plate located on the system.

### Equipment Information to Save

Purchased from:

Date of purchase:

Model number:

Serial number:

Manufacturing number:

### Authorized Service Agency

Name:

Phone No:

Address:

## Safety Information

### Installation

- Read and understand all instructions before installing or using the heated display cabinet.
- Install and locate the equipment only for its intended use as described in this manual.
- All electrical connections must be in accordance with local electrical codes and any other applicable codes. The equipment must be grounded according to local electrical codes to prevent electrical shocks. It requires a grounded receptacle with separate electrical lines, protected by fuses or a properly-rated circuit breaker.
- Electrical ground is required on this appliance. Consult a qualified electrician if there is any uncertainty about whether the appliance is properly grounded.
- Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.
- Do not use an extension cord with this appliance.

### Operation

- The heated display cabinet is furnished with a properly grounded cord connector. Do not attempt to defeat the grounded connector.
- Do not operate the heated display cabinet if it has been damaged or dropped, if it has a damaged cord or plug, or if it is not working properly.
- Do not block or cover any openings on the equipment.
- Do not immerse the cord or plug in water.
- Keep the cord away from heated surfaces.
- Do not allow the cord to hang over the edge of a table or counter.

### Maintenance

- Do not use abrasive materials; they can damage the heated display cabinet's stainless steel finish.
- Do not use corrosive chemicals in this equipment.
- Chlorides or phosphates in cleaning agents (e.g., bleach, sanitizers, degreasers, and detergents) can permanently damage stainless steel equipment. The damage is usually in the form of discoloration, dulling of the metal surface finish, pits, voids, holes, or cracks. This damage is permanent and is not covered by warranty.
- Use only chemical cleaners that are safe for cast aluminum. Observe all precautions and warnings on product labels.
- Always use a soft, damp cloth for cleaning. Rinse with clear water and wipe dry. When required, always rub in the direction of metal polish lines.
- Routine cleaning should be performed daily with soap, ammonia detergent, and water.
- Sponge stains and hard water spots with a 50% vinegar solution.
- Rub off finger marks and smears using soap and water.
- Do not clean the heated display cabinet with a water jet.

### Service

- Inspection, testing, and repair of electrical equipment must be performed only by qualified service personnel.
- Have the heated display cabinet serviced only by qualified personnel. Contact Antunes Technical Service for adjustment or repair.
- Turn the power off, unplug the power cord, and allow unit to cool to room temperature before performing any service or maintenance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or a similarly qualified person in order to avoid an electrical hazard.

## Heated Display Cabinet Glass Warnings

(DCH Models)

Please follow the Safety Instructions below in order to reduce the chance of damaged/broken glass:

**Warning: Mishandling this product or failure to follow these instructions may result in shattering glass.**

DO NOT scratch, chip, or nick the glass.

DO NOT place any metal objects in contact with the glass (merchandise holders, signs, etc.).

DO NOT transfer coins over the unit.

DO NOT use the glass as a serving counter.

**When cleaning, handling, or removing the glass, make sure that the glass is cool (room temperature).**

USE approved cleaners marketed for glass cleaning only.

USE a flat surface covered with a soft cloth to place the glass on, if the glass is removed.

USE a clean, soft cloth when cleaning the glass. Do not use paper towels.

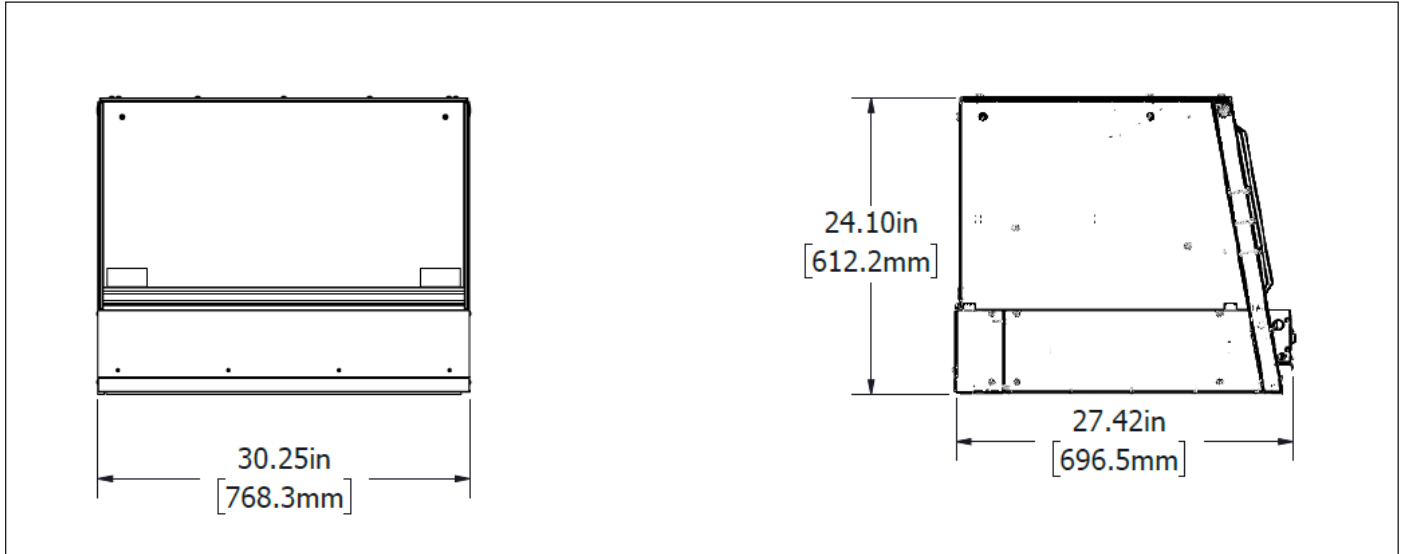
USE light pressure when wiping/cleaning the glass.

MAKE SURE that the top cover glass does not touch the edge of the side glass.

MAKE SURE to replace scratched, chipped, nicked, cracked, or broken glass.

# Specifications

## Dimensions



## Electrical Ratings

Model & Mfg. No.	Volts	Watts	Amp.	Hz.
DCH-220 9500731	120	1800	15.0	50/60
DCH-220 9500732	230	1800	16	50/60

Model & Mfg. No.	Description	Configuration
DCH-220 9500731	Power Cord NEMA 5-20P 20 Amp., 120 Volt	
DCH-220 9500732	Power Cord 16 Amp, 250V	

### **CAUTION**

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

### **WARNING**

#### **ELECTRICAL SHOCK HAZARD.**

Failure to follow the instructions in this manual could result in serious injury or death.

- Electrical ground is required on this appliance.
- Do not modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.
- Do not use an extension cord with this appliance.
- Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.

# Installation

## Unpacking

1. Remove unit and all packing materials from shipping carton.
2. Open the large box. Remove all packing materials and protective coverings from the unit and parts.

**NOTICE:** If any parts are missing, contact Antunes IMMEDIATELY at **1-877-392-7854** in the U.S., or 630-784-1000 outside the U.S..

3. Wipe all surfaces of the unit with a hot damp cloth.

**NOTICE:** Do not use a dripping wet cloth. Wring out before use.

## Equipment Setup

### **CAUTION**

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

When placing the unit into service, pay attention to the following guidelines:

- Make sure power to the unit is off and the unit is at room temperature.
- Do not block or cover any openings on the unit.
- Do not immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do not allow cord to hang over edge of table or counter.
- Place unit on a sturdy, level table or work surface.
- Ensure that the line voltage corresponds to the stated voltage on the unit specification label located at the end of the power cord.
- Turn the Rocker Switch (power On/Off) to OFF. Connect the unit to the power supply.

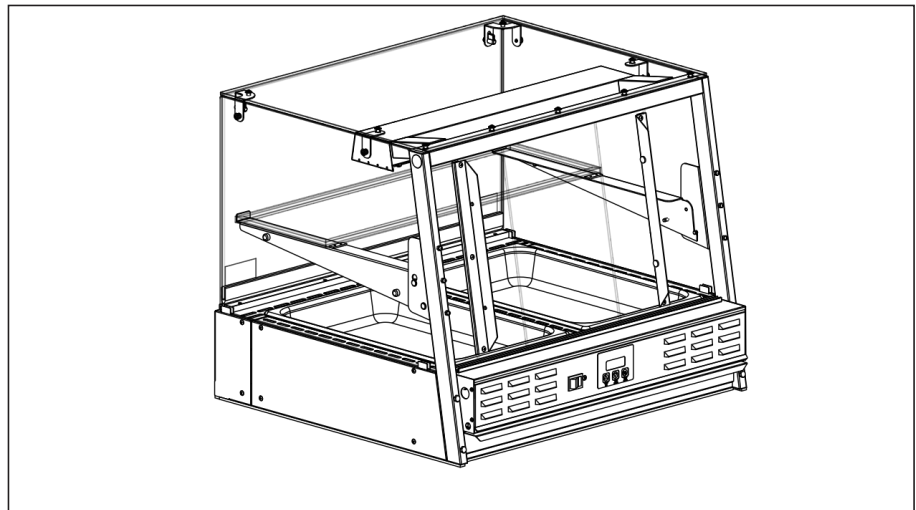


Figure 1. DCH-220

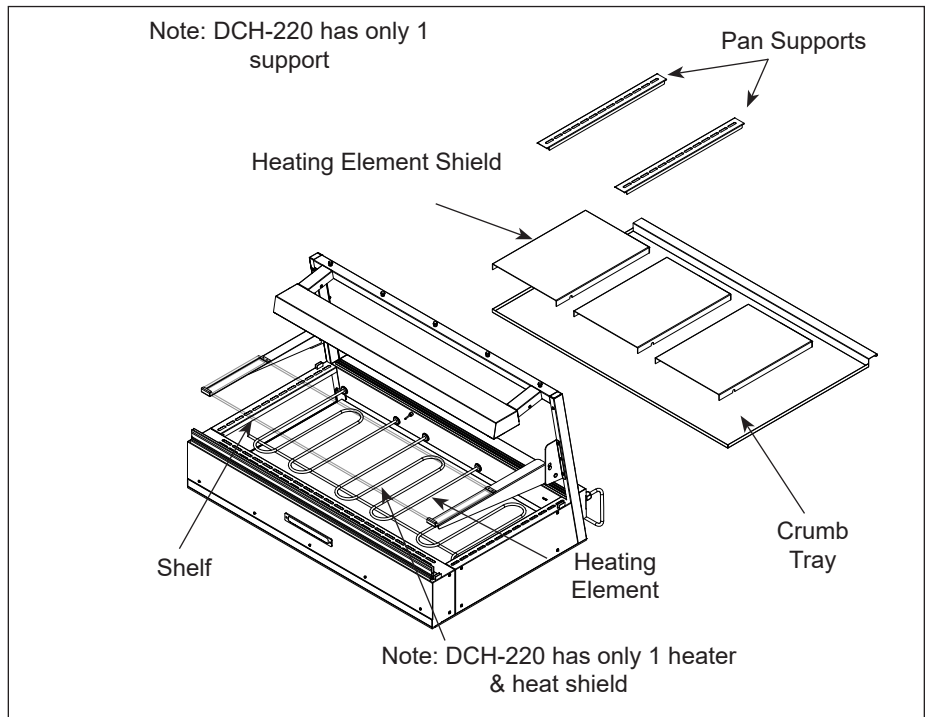


Figure 2. Display Components (DCH-320 Shown)

## Operating & Programming

**NOTICE:** The Setpoint temperature is the desired cabinet temperature setting. When the Temp UP button is pressed and held (and provided that the unit is up to temperature), the actual cabinet temperature is displayed. When the button is released, the Setpoint temperature is displayed.

1. Turn the unit ON. The display will flash "LO" to indicate that the unit is heating up. After 20-30 minutes (when the unit is up to temperature), the display will show the setpoint temperature.
2. To adjust the setpoint temperature, press and hold the Temp Up and Temp Down buttons until the display begins to flash. Release the buttons. Then, press the Temp Up or Temp Down buttons to raise or lower the setpoint temperature. Release when the display shows the desired temperature.
3. To change the display from Fahrenheit to Celsius and back, press and hold the Temp Scale button (Figure 3) for 2-3 seconds and release.
4. Open the rear door(s) and place the serving table pan(s) into the unit (Figure 4). Load the pan(s) with the food product using tongs or a similar utensil. Close the door(s).

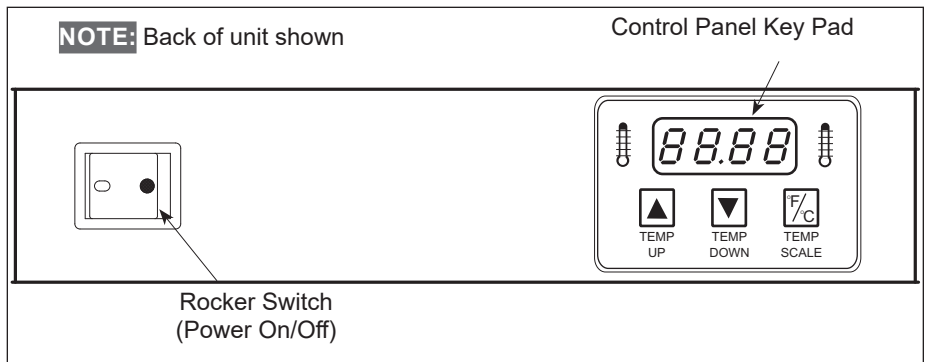


Figure 3. Controls

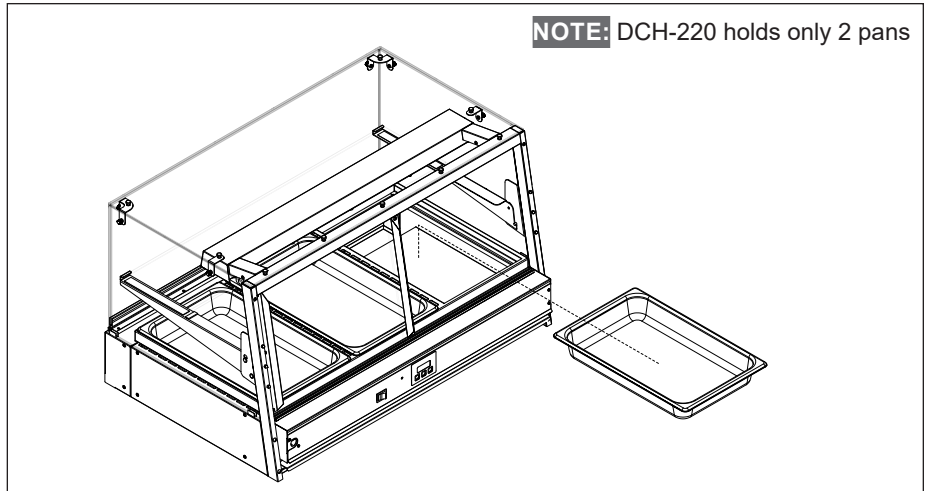


Figure 4. Loading Pans

## Maintenance

Be sure to follow all of the warnings and precautions listed in the Important Safety Information section of this manual.

### **WARNING**

Turn the unit off, disconnect the power source and allow the unit to cool down before performing any service or maintenance on the unit.

### **CAUTION**

Do not remove crumb tray while unit is hot or burns or other personal injury may result.

### **WARNING**

All glass surfaces must be cool before cleaning. Once cool, wipe glass with a clean cloth. Do not attempt to clean glass when hot or with cold towel as shattering glass may occur.

## Daily Cleaning

The unit requires a minimum amount of maintenance. To ensure proper operation, clean the unit at the end of each serving day.

1. Turn unit off, unplug the power cord, and allow the unit to cool to room temperature.
2. Once cooled, remove all components. Wipe the glass panels with a clean cloth sprayed with an approved glass cleaner.
3. Wash all components in soap and water. Wipe all surfaces of the unit with a damp cloth.

**NOCE:** Do not use a dripping wet cloth. Wring the cloth out before use.

4. Install components in unit.

## Parts Replacement

### Halogen Bulb Replacement

#### **CAUTION**

Do not handle halogen bulbs with bare hands. Use a tissue or clean cloth to handle halogen bulbs

#### **CAUTION**

Use 1000 Watt (Max.) Quartz tungsten halogen lamp (T4 Bulb/'RSC' Base) only. To reduce the risk of electric shock when replacing bulbs, turn display switch to OFF position.

1. Turn the unit off.
2. Unplug the power cord from the electrical outlet and allow the unit to cool to room temperature before proceeding.
3. Gently, but firmly, press the lamp socket sideways and remove the bulb (Figure 5).
4. Install a new 100 watt bulb while pressing the socket sideways. Make sure bulb is fully seated before releasing socket.

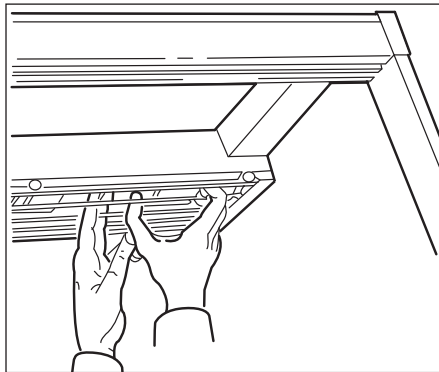


Figure 5. Halogen Bulb Replacement

### Rear door replacement

5. Turn unit off, unplug the power cord, and allow the unit to cool to room temperature.
6. Firmly grasp the sides of one glass door. Lift the door up and out of the bottom track (Figure 6). Repeat for the other door.
7. Place new door in the inside upper track. Push up firmly and slide bottom of door into bottom inside track. Install other door into outside tracks the same way.

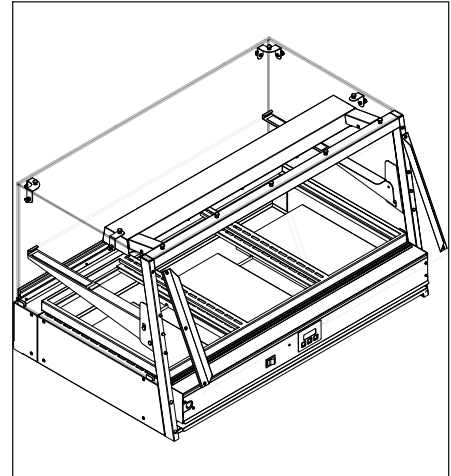


Figure 6. Halogen Bulb Replacement

## Front glass panel replacement

1. Turn the unit OFF, unplug the power cord from the electrical outlet, and allow the unit to cool to room temperature before proceeding.
2. Turn the two security paddles to align with the slot of brackets at each corner (Figure 7).
3. Tilt the front glass away from the unit on the hinge plate and remove the panel from the unit.
4. (See Caution note).
5. To reinstall, be sure the front glass is fully seated in the hinge plate. Then, tilt the glass into place and install the nylon spacers, washers, and thumb screws.



### CAUTION

Front glass panel replacement should be performed by two people to prevent damage to the glass.

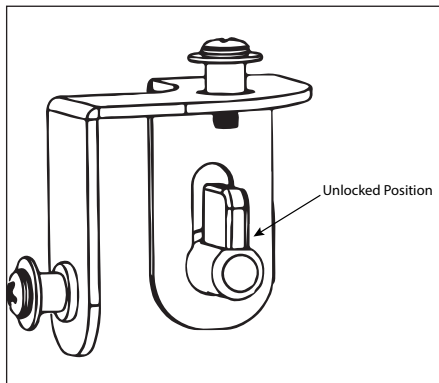


Figure 7. Security Paddles  
(Unlocked Position)  
(Front Corners Only)

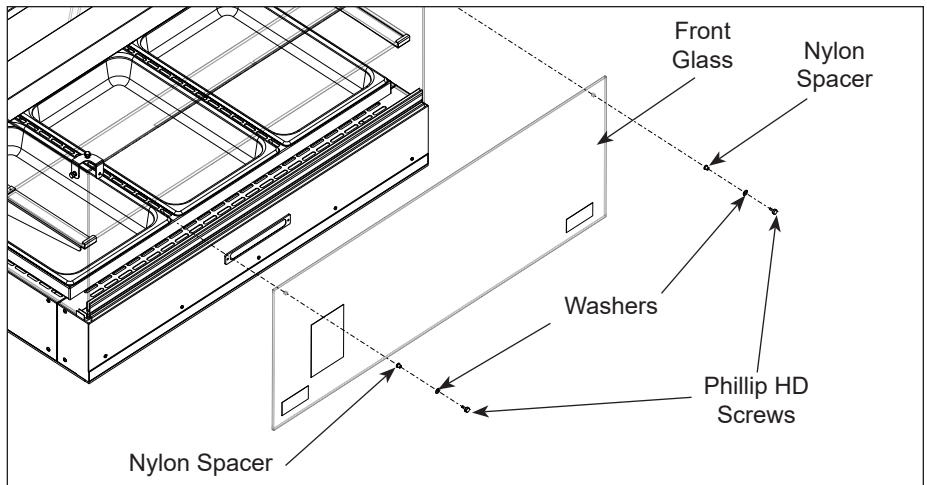


Figure 8. Front Glass Replacement

## Side glass replacement

1. Turn the unit OFF, unplug the power cord from the electrical outlet, and allow the unit to cool to room temperature before proceeding.
2. Remove the two Phillips head screws, washers, and nylon spacers securing the side glass (Figure 8).
3. Remove the side glass from the unit.
4. To reinstall, position the side glass panel into place and install the nylon spacers, washers, and Phillips head screws.

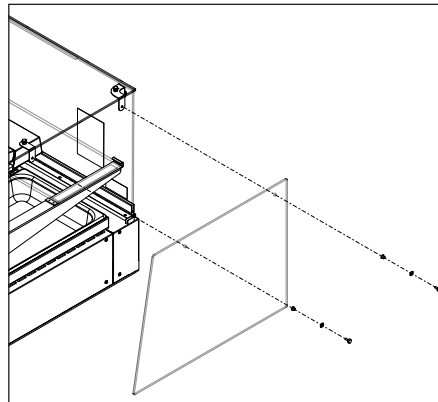


Figure 9. Side Glass Replacement

## Top Glass Replacement

1. Turn the unit OFF, unplug the power cord from the electrical outlet, and allow the unit to cool to room temperature before proceeding.
2. Remove the top Phillips head screws, washers, and nylon spacers securing the top glass (Figure 10).
3. Remove the top glass from the unit.
4. To reinstall, position the top glass panel into place and install the nylon spacers, washers, and Phillips head screws.

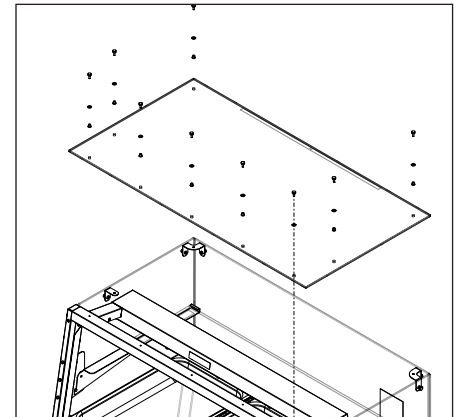
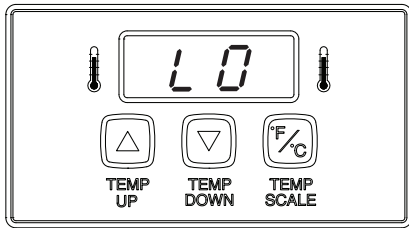


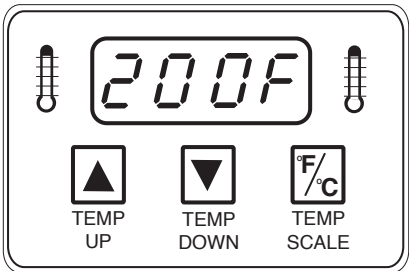
Figure 10. Top Glass Replacement  
(DCH-320 Shown)

## Display Codes

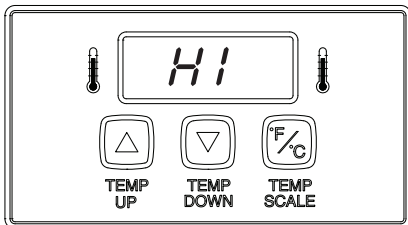
This section describes the different display codes and their meanings.



“LO” flashes during the initial warm up period. The unit continues to display this code until the unit reaches the setpoint temperature. When the unit reaches the setpoint temperature, it displays the setpoint temperature.

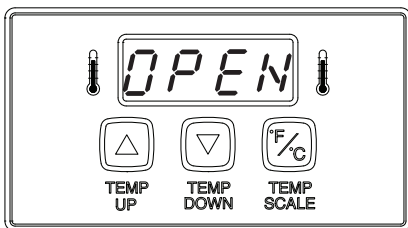


This figure shows an example setpoint temperature of 200° F displayed on the console.



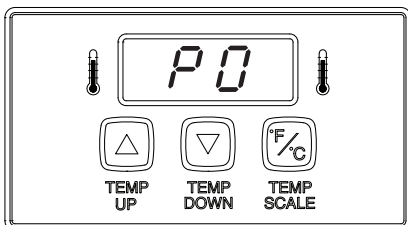
“HI” flashes if the actual cabinet temperature exceeds the setpoint temperature or if the thermistor has shorted.

**NOTE:** The thermistor should be 100k ohm +/- 2% at room temperature.



“OPEN” flashes if the thermistor is OPEN or disconnected. The unit will not call for heat.

**NOTE:** The thermistor should be 100k ohms +/- 2% at room temperature.



“PO” In 120 VAC units, this code flashes if the supply voltage is below 100 VAC or above 135 VAC. In 220/240 VAC units, this code flashes if the supply voltage is below 190 VAC or above 265 VAC.

**NOTE:** If voltage is within normal ranges, then the Control Board is faulty.

To reset a unit in this state, the supply voltage must be within acceptable limits and the unit must be turned off for a few seconds and then turned back on.

## Operations and Programming

**IMPORTANT:** All models of the DCH-220 have a temperature range of 100°-165°F (38°-74°C) which is below the safe holding temperature for some foods. Only non-potentially hazardous food should be held in these units.

**NOTICE:** The Setpoint temperature is the desired temperature setting. The Indicated temperature is the actual temperature inside the cabinet. When the temperature button is pressed and held, the actual temperature is displayed; when released, the setpoint temperature is displayed.

1. Set the rocker switch (Figure 12) to the ON position.
2. Press and hold both the TEMP UP and TEMP DOWN buttons until the display blinks.
3. When the Display “blinks”, press an UP or DOWN ARROW key to reach the desired set point temperature and then let go. The new set point temperature will now be active (Figure 11).
4. The unit will reach the desired temperature and humidity in 30-45 minutes.
5. Open the rear door and place the serving table pan(s) into the unit (Figure 13). Load the pan(s) with food using tongs or similar utensil. Close the door.

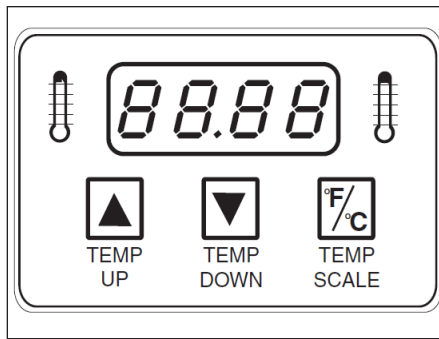


Figure 11. Control Panel - Key Pad

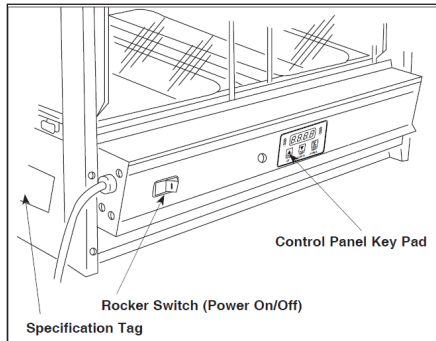


Figure 12. Controls

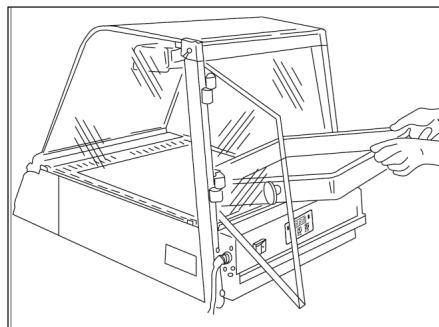


Figure 13. Loading Food (DCH-100 Shown)

## Troubleshooting



### WARNING

To avoid possible personal injury and/or damage to the unit, inspection, test and repair of electrical equipment should be performed by qualified service personnel. The unit should be unplugged when servicing.

Problem	Possible Cause	Corrective Action	
No heat and lights do not turn on when power switch is set to on.	Power cord is not plugged in.	Plug the power cord into the appropriate outlet.	
	Circuit breaker is off or has been tripped.	Reset circuit breaker, contact your maintenance person or Authorized Service Agency if it trips again.	
	No power at receptacle.	Contact your maintenance person or Authorized Service Agency for service.	
	Inoperable power cord.		
	Inoperable power switch.		
	Loose, burnt, broken wiring in the circuit.	Inoperable Transformer.	Contact your maintenance person or Authorized Service agency for service.
		Inoperable Control Board.	
Display flashes "LO" and the cabinet does not heat up.		Inoperable Solid State Relay.	Contact your maintenance person or Authorized Service Agency for service.
	Inoperable Control Board.		
	Inoperable Heater(s).		
	Loose, burnt, broken wiring in circuit.		
Display flashes "HI" and the cabinet does not heat up.	Inoperable Thermistor.	Contact your maintenance person or Authorized Service Agency for service.	
	Inoperable Control Board.		
Display flashes "HI" and the cabinet is very hot.	Solid State Relay contacts shorted closed.	Contact your maintenance person or Authorized Service Agency for service.	
	Inoperable Control Board.		
Display flashes "OPEN" and the cabinet does not heat up.	Thermistor is disconnected or open.	Re-secure the Thermistor onto the Control Board. If this problem persists, contact your maintenance person or Authorized Service Agency for service.	
	Inoperable Control Board.		
Display flashes "PO" and the cabinet does not heat up.	Inoperable Control Board.	Contact your maintenance person or Authorized Service Agency for service.	
Product dries out quickly.	Setpoint temperature is set too high.	Lower the Setpoint temperature.	
	Incorrect wattage halogen bulb(s) being used.	Use only 100 watt halogen bulb(s).	
Halogen Bulb(s) do not light up.	Bulb(s) burnt out.	Replace bulb(s)	
	Bulb(s) not seated properly into spring loaded sockets.	Remove and reinstall bulb(s) so that the ends snap into the socket(s).	
	Inoperable Resistor Assembly.	Contact your maintenance person or Authorized Service Agency for service.	
	Loose, burnt, or broken wiring in Circuit.		
	Inoperable Bulb Sockets(s).		

# Replacement Parts

## Parts List

**NOTE**  
Use only genuine Antunes replacement parts in this display cabinet. Use of parts other than those supplied by the manufacturer will void the warranty.

Item No.	Part #	Description	Qty.
1	7002381	Lamp Housing Assembly (120V) Kit	1
	0011618	Lamp Housing Assembly (230V)	1
2	0024032	Control Panel Weldment	1
3	2100387	Track Door, Upper	1
4	2100184	Track Door, Lower	1
5	0502865	Bracket, Lamp Housing	2
6	0502866	Cover, Lamp Housing Brkt	2
7	0800224	Lamp Guard	1
8	4030324	Heating Element (120V)	1
	4030325	Heating Element (230V)	1
9	0010706	Resistor Assembly (120V)	1
	0010644	Resistor Assembly (230V)	1
10	0701081	Wire Set	1
11	0400119	Bushing, Shorty	4
12	0400111	Bushing, Shorty, 1/2"	1
13	4060304	Terminal Block, 3-Wire	1
14	306P156*	6-32 x .38 LG RD HD PH S.S	4
15	5040030	Insulation, CERA BLANKET	1
16	308P157*	Screw, Tap, 8-32 x 3/8" LG	1
17	308P203*	Screw, 8-32 x 3/8", w.int. tooth washer	16
18	306P123*	Screw, Mach #6-32 x 7/8" SL-RNDHD	2
19	306P101*	Nut, Hex, #06-32 St.Stl	2
20	0200156	Gasket, Strip	1
21	0200191	Gasket	2
22	0200192	Gasket, Strip	1
23	21800-0120	Hole Plug - 7/8"	2
24	2140101	Adhesive/Sealant - RTVAR	-
25	3250223	Screw, SOC HD, 1/4-20 x 3/8 LG	2
26	7000882	Rocker Switch Replacement Kit	1
27	1001037	Label, Control Panel	1
28	1000900	Label, Service	1
29	1001213	Label - Shock Hazard	1
30	4070052	Assy - PCB, Control temp Display 38°-74°C / 100°-165°F	1
31	0024115	Mounting Plate	1
32	4010199	Transformer (120V)	1
	4010187	Transformer (230V)	1
33	4050231	Relay, Zero Cross, Solid State 50A	1
34	304P105*	Nut, hex "KEPS" #4-40	4
35	306P130	Nut, hex "KEPS" #06-32 Steel, Zinc Plated	4
36	308P143*	Nut, Hex "KEPS" #8-32	2

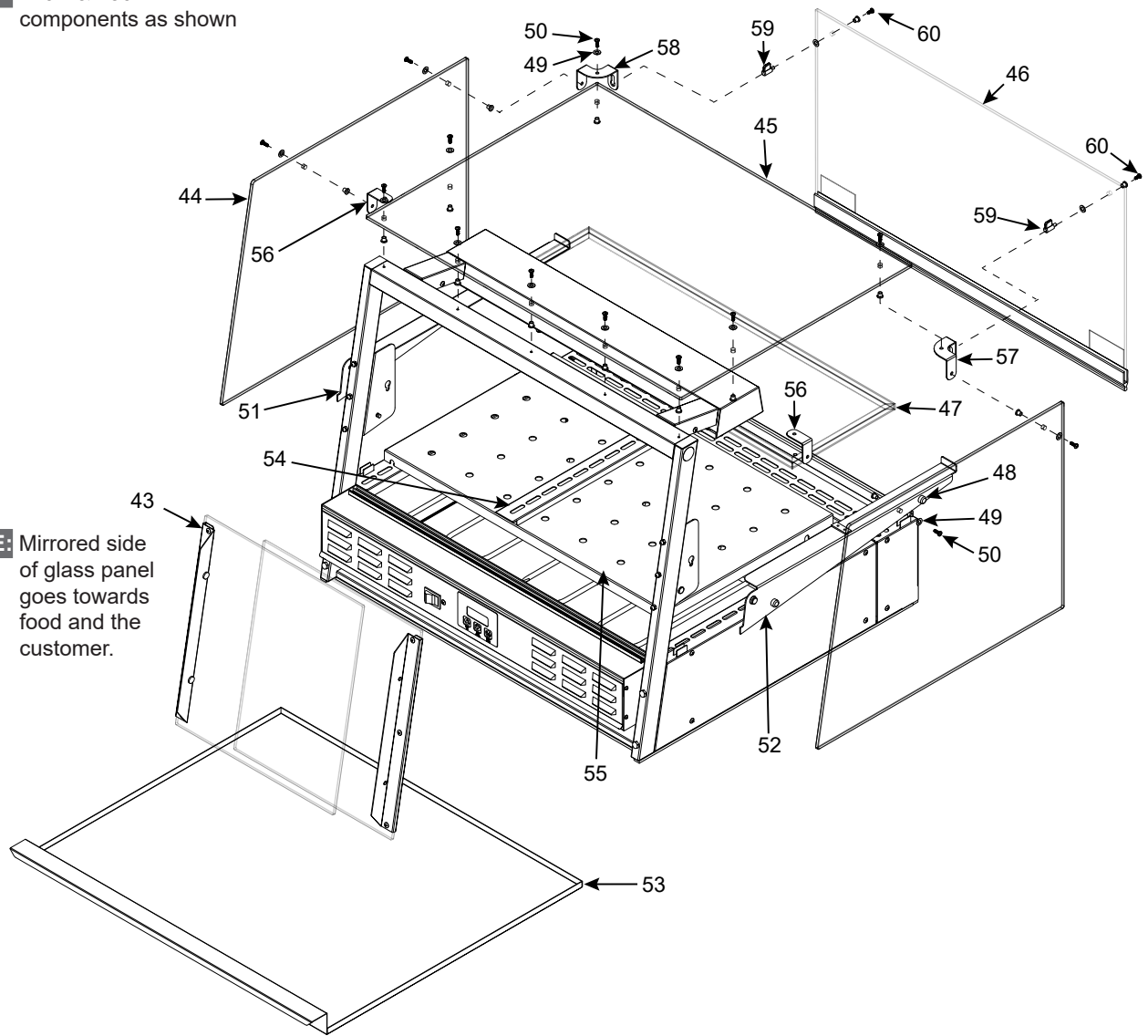
Item No.	Part #	Description	Qty.
37	7000369	Thermistor Replacement Kit	1
38	0700451	Power Cord (120V) (Not Shown)	1
	0700453	Power Cord (230V) (Not Shown)	1
39	0400354	90° Strain Relief (Not Shown)	1
40	4060252	Quartz Halogen 100w	2
41	4060189	Lamp Holder	4
42	0800230	Support Rod	1
* Available in packages of 10 (Ten)			

# Replacement Parts

## Exploded Diagram 1

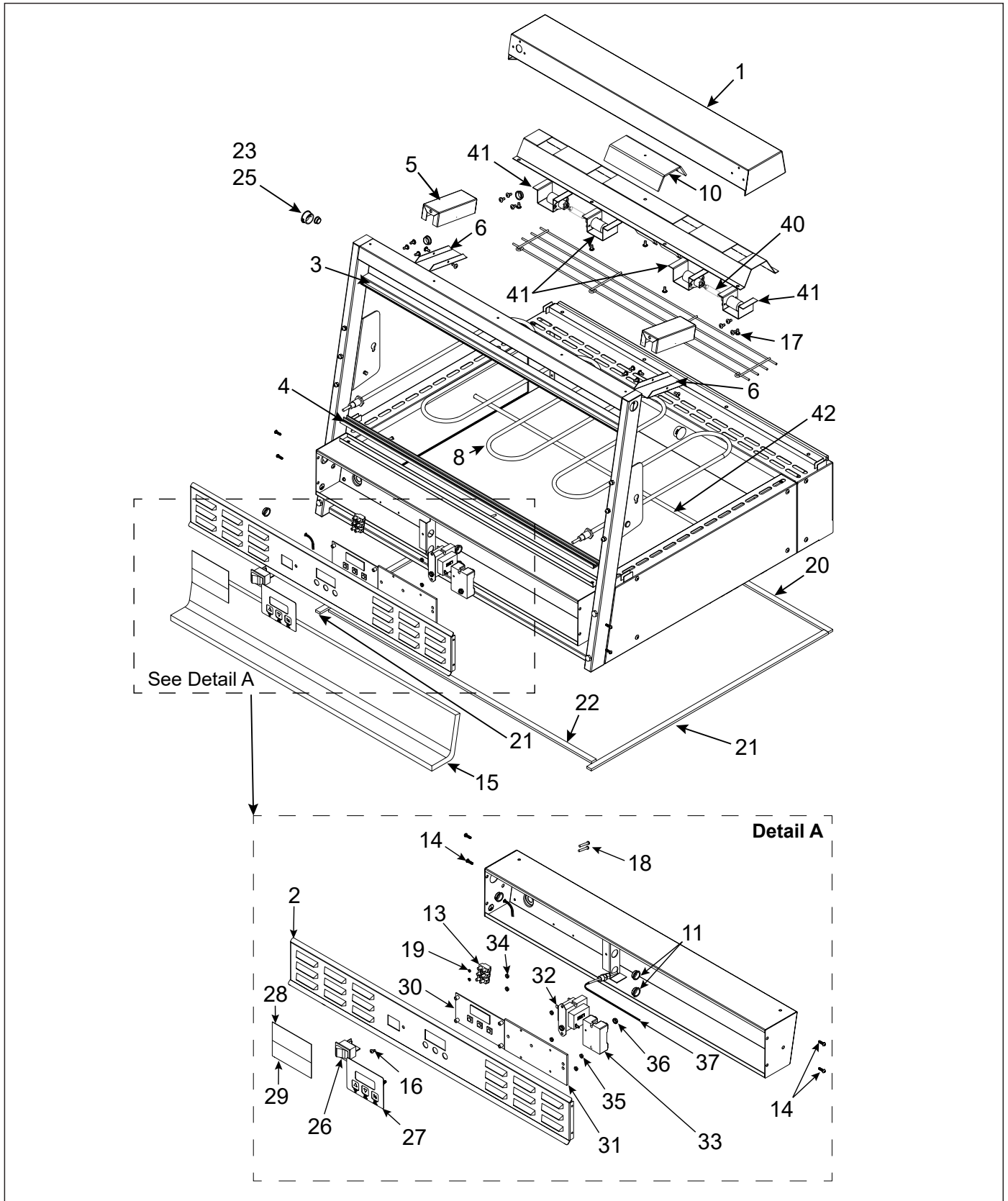
**NOTE:** 120V & 230V share same components as shown

**NOTE:** Mirrored side of glass panel goes towards food and the customer.



# Replacement Parts

## Exploded Diagram 2



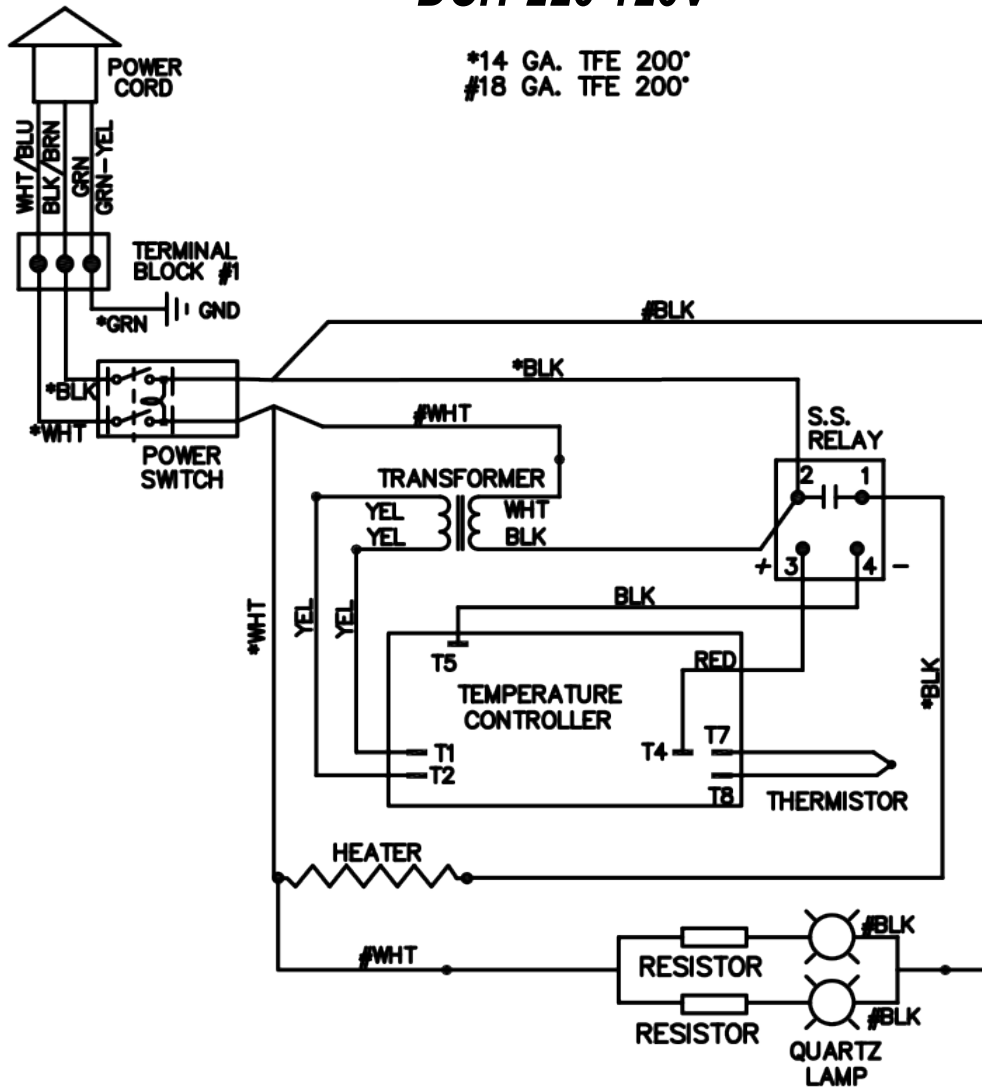
# Wiring Diagram

DCH-220 (120V) SQ

## WIRING DIAGRAM

### DCH-220 120V

\*14 GA. TFE 200'  
#18 GA. TFE 200'



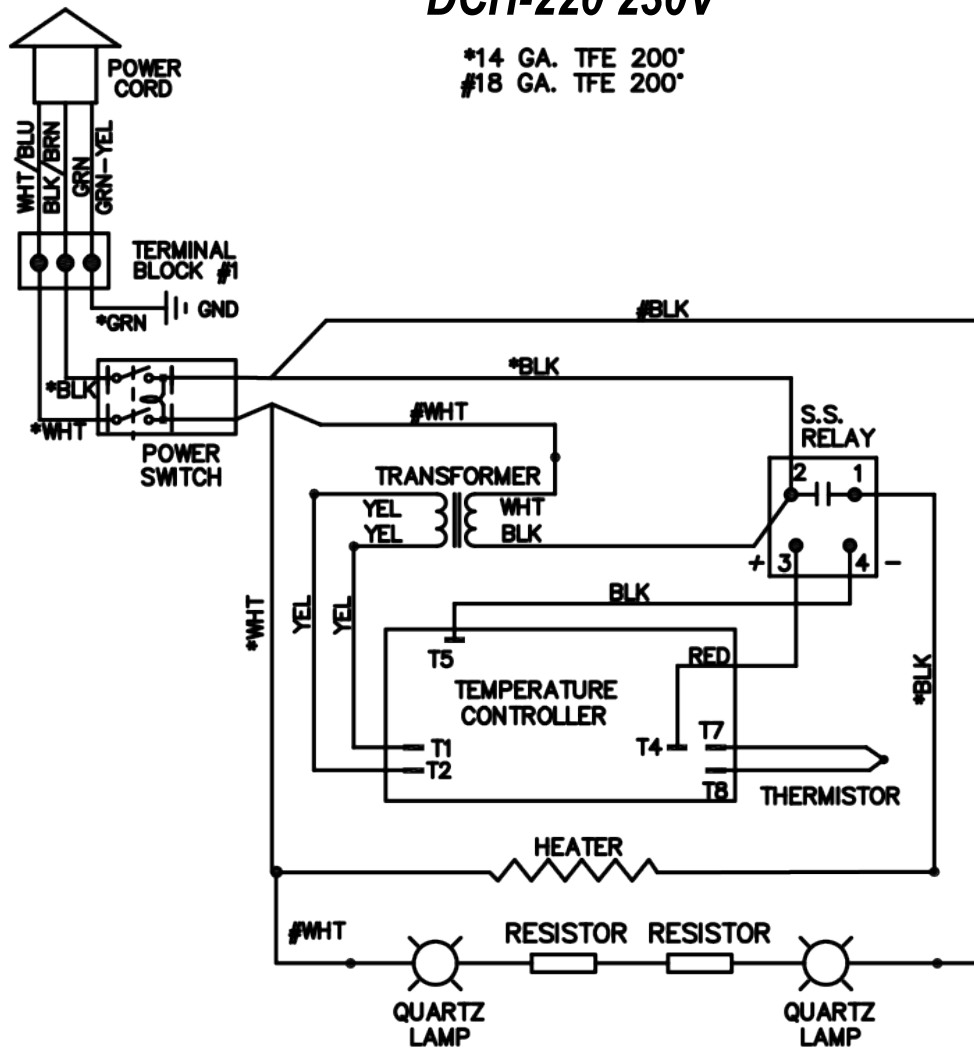
# Wiring Diagram

DCH-220 (230V) SQ

## WIRING DIAGRAM

### DCH-220 230V

\*14 GA. TFE 200'  
\*18 GA. TFE 200'



## Limited Warranty

Equipment manufactured by Antunes has been constructed of the finest materials available and manufactured to high quality standards. These units are warranted to be free from mechanical and electrical defects for a period of one year from date of purchase or 18 months from shipment from factory, whichever occurs first, under normal use and service, and when installed in accordance with manufacturer's recommendations. To insure continued proper operation of the units, follow the maintenance procedure outlined in the Owner's Manual.

1. This warranty does not cover cost of installation, defects caused by improper storage or handling prior to placing of the Equipment. This warranty does not include overtime charges or work done by unauthorized service agencies or personnel. This warranty does not cover normal maintenance, calibration, or regular adjustments as specified in operating and maintenance instructions of this manual, and/or labor involved in moving adjacent objects to gain access to the Equipment. This warranty does not cover consumable items such as gaskets and light bulbs, nor does it cover water contaminant problems such as foreign material in water lines or inside solenoid valves. It does not cover water pressure problems or failures resulting from improper/incorrect voltage supply.

For the first 90 (ninety) days after installation (in the U.S. ONLY), the unit will be repaired in-store (subject to the terms of the limited warranty) by our Authorized Service Agency at no charge for parts and non-overtime labor. Travel time and mileage charges in excess of 2 hours (100 miles roundtrip) from the nearest Authorized Service Agency is not covered under this warranty and is the responsibility of the end user.

2. Antunes reserves the right to make changes in design or add any improvements on any product. The right is always reserved to modify equipment because of factors beyond our control and government regulations. Changes to update equipment do not constitute a warranty charge.
3. If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carrier's receipt. Damage should be reported to the carrier. This damage is not covered under this warranty.
4. Warranty charges do not include freight or foreign, excise, municipal or other sales or use taxes. All such freight and taxes are the responsibility of the purchaser.
5. This warranty is exclusive and is in lieu of all other warranties, expressed or implied, including any implied warranty or merchantability or fitness for a particular purpose, each of which is hereby expressly disclaimed. The remedies described above are exclusive and in no event shall Antunes be liable for special consequential or incidental damages for the breach or delay in performance of this warranty.

The warranty does not extend to:

- Damages caused in shipment or damage as result of improper use.
- Installation of electrical service.
- Installation, calibration, or adjustment.
- Normal maintenance outlined in this manual.
- Malfunction resulting from improper service or maintenance.
- Damage caused by improper installation, abuse, or careless handling.
- Damage from moisture getting into electrical components.
- Damage from tampering with, removal of, or changing any preset control or safety device.
- Damage caused by parts or components not provided by Antunes



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