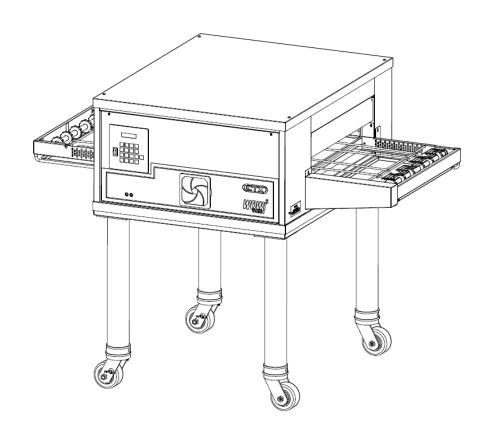


OWNER'S OPERATING & INSTALLATION MANUAL CTX GEMINI SERIES OVENS DZ33I



CTX ® • 1400 Toastmaster Drive • Elgin, IL. 60120 • 847-741-3300

A Middleby Company • www.middleby.com

Model No.	Serial No.	Installation Date

CTX® NO QUIBBLE LIMITED WARRANTY (U.S.A ONLY)

MIDDLEBY MARSHALL HEREINAFTER REFERRED TO AS THE SELLER, WARRANTS EQUIPMENT MANUFACTURED BY IT TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR WHICH IT IS RESPONSIBLE. THE SELLER'S OBLIGATRION UNDER THIS WARRANTY SHALL BE LIIIMITED TO REPLACING OR REPAIRING AT SELLER'S OPTION, WITHOUT CHARGE, ANY PART FOUND TO BE DEFECTIVE AND ANY LABOR AND MATERIAL EXPENSE INCURRED BY SELLER IN REPAIRING OR REPLACING SUCH PART, SUCH WARRANTY SHALL BE LIMITED TO THE ORIGINAL PURCHASER ONLY AND SHALL BE EFFECTIVE FOR A PERIOD OF ONE YEAR FROM DATE OF ORIGINAL INSTALLATION, OR 18 MONTHS FROM DATE OF SHIPMENT, WHICHEVER IS EARLIER; PROVIDED THAT TERMS OF PAYMENT HAVE BEEN FULLY MET.

This warranty is valid only if the equipment is installed, started and demonstrated under the supervision of a factory certified installer.

Normal maintenance functions, including lubrication, cleaning or customer abuse are not covered by this <u>no quibble warranty.</u>

Seller shall be responsible only for repairs or replacements of defective parts performed by Seller's authorized service personnel. Authorized service agencies are located in principal cities throughout the contiguous United States, Alaska and Hawaii. This warranty is valid in the 50 United States and is void elsewhere unless the product is purchased through Middleby International with warranty included.

The foregoing warranty is exclusive and in lieu of all other warranties, expressed or implied. There are no implied warranties of merchantability or of fitness of a particular purpose.

The foregoing warranty shall be Seller's sole and exclusive obligation and Buyer's sole and exclusive remedy for any action including breach of contract or negligence. In no event shall Seller be liable for a sum in excess of the purchase price of the item. Seller shall not be liable for any prospective or lost profits of Buyer.

NOTICE:

This Operating and Installation Manual should be given to the user. The operator of the oven should be familiar with the functions and operation of the oven.

This manual must be kept in a prominent, easily reachable location near the oven.

It is suggested to obtain a service contract with a manufactures certified service agent.

FOR YOUR SAFETY
DO NOT STORE OR USE GASOLINE OR OTHER
FLAMMABLE VAPORS AND LIQUIDS IN THE
VICINTIY OF THIS OR ANY OTHER APPLIANCE

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

NOTICE

CONTACT YOUR LOCAL SERVICE COMPANY TO PERFORM MAINTENANCE AND REPAIRS.
A SERVICE AGENT DIRECTORY IS SUPPLIED IN YOUR
INSTALLATION KIT.

NOTICE

Using any parts other than genuine CTX factory manufactured parts relieves the manufacturer of all warranty and liability.

NOTICE

CTX (Manufacturer) reserves the right to change specifications at any time.

WARNING

The equipment warranty is not valid unless the oven is installed, started and demonstrated under the supervision of a factory certified installer.

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SECTION 1 - DESCRIPTION

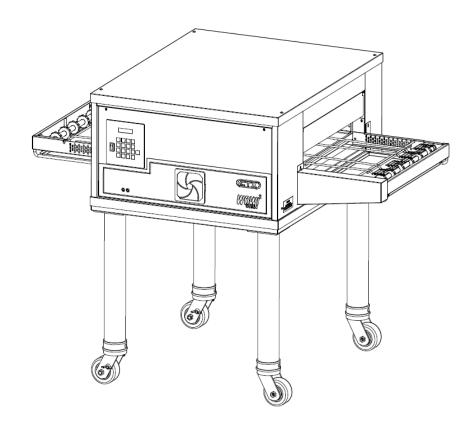
CTX Series oven is:

- Electrically powered
- Zone heated by infrared panels

- Conveyorized
- Electronically controlled

CTX Oven Model:

• DZ33I – 31" (787 mm) long cooking chamber with a MenuSelect™ control. NOTE: "DZ" designation on ovens stands for: "DZ" = Duel Zone Temperature Control.



DZ33I

Figure 1

Note:

Wiring diagrams are contained in the manual and are also located in the oven.

This manual must be kept for future reference

A. Component Location

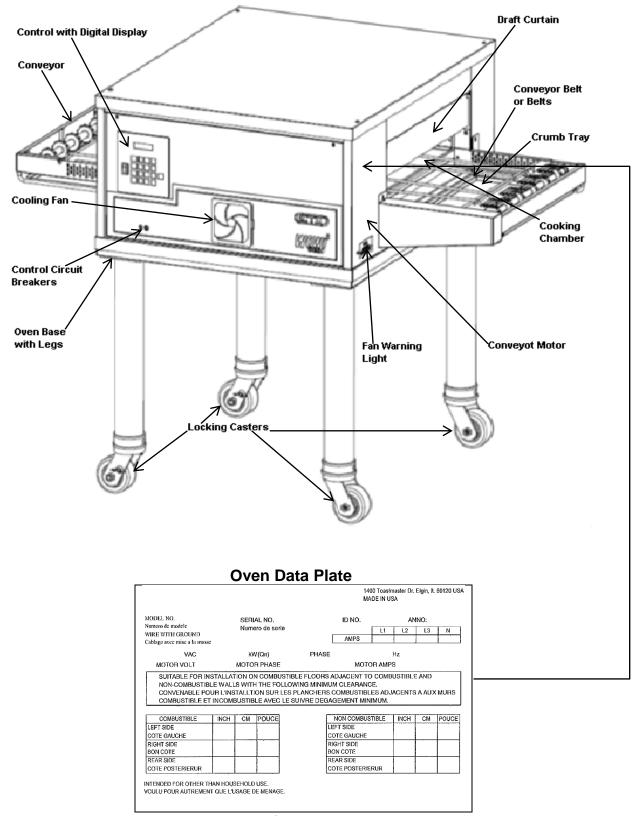


Figure 1-2

B. Component Function

1. Oven Controller

The controller controls all functions of the oven. The cooking temperatures can be set from 200°F to 900°F (93°C to 509°C). Cooking times (conveyor speed) can be set from 1:00 minute to 60:00 minutes on the DZ33I.

Controller features a self-cleaning mode, a programmable automatic ON/OFF timing mode, and an energy conserving standby mode. Also included is a service mode designed to assist the service technician.

The Menu Select control contains 10 menu keys which can be preset to control both oven temperature and cook time. The operator must then press only the menu key for the desired product being cooked.

2. Infrared Heating Panels

Heating panels are positioned above and below the conveyor belt in the oven chamber (figure 1-3). When energized these panels emit infrared long waves. These waves do not heat the air through which they pass. Instead the waves are absorbed by the outer surface of the product transported through the oven on the conveyor belt. Using this application, food is placed on the conveyor and the unique properties of the infrared waves cause it to cook from the outside to the center in traditional fashion.

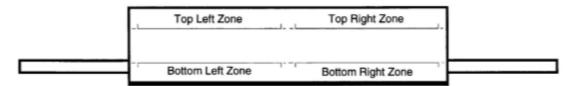


Figure 1-3
DZ33I Heat Zones

3. Conveyor

The conveyor is used to convey the product through the oven deck (chamber). The conveyor is made up of 1 to 2 stainless steel wire belts which can travel in either direction around the frame. The conveyor is controlled by the controller and can travel at speeds from 1:00 to 60:00 minutes. The speed of the conveyor determines how long the product will be in the cooking chamber which is the cooking time.

CAUTION: All DZ ovens are **Voltage Specific**. Check the oven data plate for the voltage. Applying the wrong voltage can immediately damage the oven. Refer to the Installation Section of this manual for complete instructions before installing an oven.

C. **Oven Specifications**

Figure 1-1 Dimensions

DZ33I

Clisions	D2331
Single Oven on Base and Casters	
Overall Height	39.44" (1001.8mm)
Overall Depth	39.03" (991.4mm)
Overall Length	59.00" (1499mm)
Double Oven on Base and Casters	
Overall Height	55.32" (1328.9mm)
Overall Depth	39.03" (991.4mm)
Overall Length	59.00" (1499mm)
Triple Oven on Base and Casters	· · · · · · · · · · · · · · · · · · ·
Overall Height	65.17" (1655.3mm)
Overall Depth	39.03" (991.4mm)
Overall Length	59.00" (1499mm)
Quad Oven on Base and Casters	
Overall Height	72.02" (1829.3mm)
Overall Depth	39.03" (991.4mm)
Overall Height	59.00" (1499mm)
Oven Chamber Dimensions	
Overall Height	5.5" (140mm)
Overall Width	22.25" (565mm)
Overall Length (Heating Zone)	31.22" (793mm)
Conveyor Baking Area	3.88sq. ft. (0.36sq. m.)
Stainless Steel Single Conveyor Belt Width	18" (457mm)
Stainless Steel Duel Conveyor Belt Width	(2) 8.00" (203mm)
Net Weight of Single Unit	362 lbs. (164.2 kg)
Temperature Range	150°F-900°F (66.5°C-482°C)

Oven Electrical Specification Chart

NOTE: A separate ground wire must be supplied with each oven; conduit may <u>not</u> be used as a ground. **NOTE:** Supply wire must be rated minimum 90°C (194°F).

Domestic Amp Loading Charts

DZ33I Domestic

Model	AC	Phase	Hz	Connected	AVG	Co	nnected	Load (Am	ps)	Required
No	Volts			kW	Operating	L1	L2	L3	N	Breaker
					kW					(Amps)
DZ33I	208	1	50/60	8.95	3.1	45.7	45.7			60
DZ33I	208	3	50/60	9.5	3.1	30.3	30.3	19.8		40
DZ33I	240	1	50/60	10.0	3.1	41.7	41.7			60
DZ33I	240	3	50/60	10.0	3.1	27.6	27.6	18.1		40

DZ33I International

	DZ33i international									
Model	AC	Phase	Hz	Connected	AVG	C	nnected I	Load (Am	ps)	Required
No	Volts			kW	Operating	L1	L2	L3	N	Breaker
					kW					(Amps)
DZ33I	230	3	50/60	9.2	3.1	18.9	18.9	32.6	-	40
(CE Listed)										
DZ33I	380	3	50/60	8.4	3.1	18.9	9.2	9.2	8.9	30
(CE Listed)										

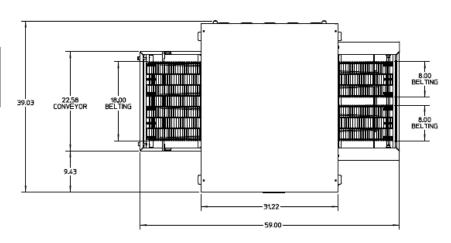
D.

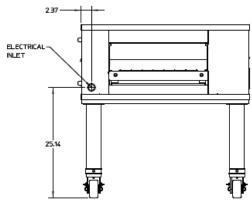
Dimension Drawings
1. Dimension drawing of Single DZ33I Oven on Base.

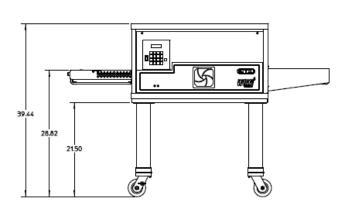
Note: All figures in parentheses are in millimeters.

Minimum Clearance			
Rear	0"		
Left	4"		
Right	4"		

We reserve the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes. Improvements, additions or replacements for previously purchased equipment.



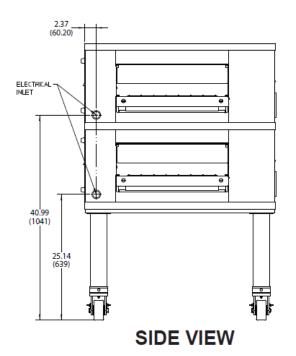


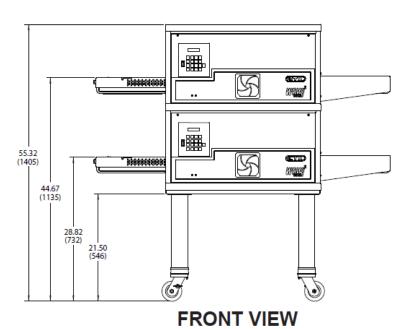


2. Dimension drawing of two stacked DZ33I ovens on base.

Note: All figures in parentheses are in millimeters.

Minimum Clearance			
Rear	0"		
Left	4"		
Right	4"		

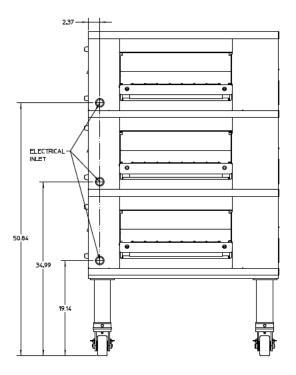


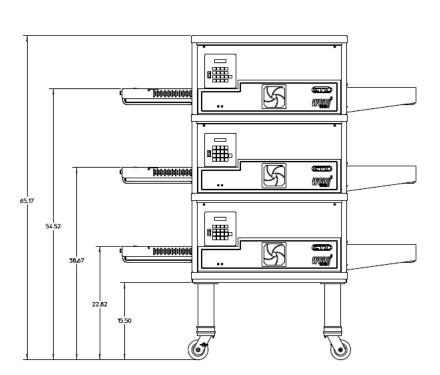


3. Dimension drawing of three stacked DZ33I ovens on base.

Note: All figures in parentheses are in millimeters.

Minimum Clearance			
Rear	0"		
Left	4"		
Right	4"		

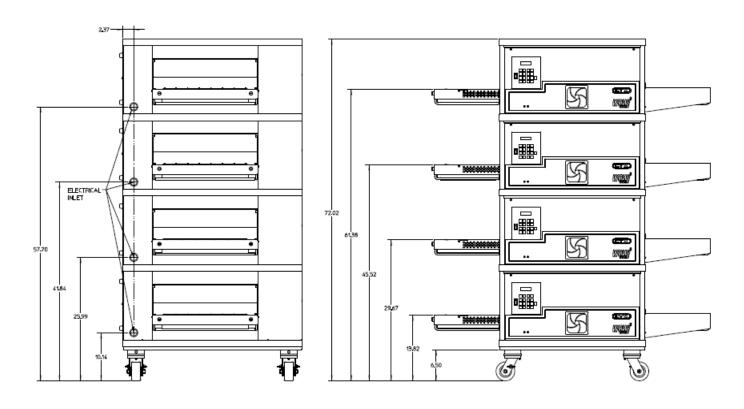




4. Dimension drawing of a Quad stacked DZ33I ovens on base.

Note: All figures in parentheses are in millimeters.

Minimum Clearance				
Rear	0"			
Left	4"			
Right	4"			



Side View

Front View

SECTION 2 – Installation

A. Inspect for shipping Damage

All shipping container should be examined for damage before and during unloading. This equipment was carefully inspected and packaged at the factory. The freight carrier has assumed responsibility for its safe transit and delivery. If equipment is received in damaged condition, either apparent or concealed, a claim must be made with the delivering carrier.

- Apparent Damage or Loss- If damage or loss is apparent it must be noted on the freight bill or express receipt at the time of delivery, and it must be signed by the carrier's agent (driver). If this is not done, the carrier may refuse the claim. The carrier will supply the necessary claim forms.
- Concealed Damage or Loss- If damage or loss is not apparent until after equipment is uncrated, a request for inspection of concealed damage must be made with carrier within 10 days. The carrier will make an inspection and will supply necessary claim forms. Be certain to retain all contents plus external and internal packaging/crating materials for inspection.

B. Placement of Oven

Some very important considerations must be made when choosing the place where the oven is to operate.

- 3. This Oven is conveyorized and operates continuously. It should be placed so it fits into the "flow" of the operation.
- 4. Drafts entering the oven chambers can cause inconsistent cooking results. Check the area surrounding the oven and eliminate sources of drafts such as open windows or doors and fans or other appliances that cause air circulation.

 Oven should be positioned so hot air from and other piece of equipment cannot enter oven cooling fan air intake on oven front. Serious problems could occur.

NOTE: To validate a new oven(s) warranty a certified CTX installer must supervise Steps C through H of installation.

C. Items for Stacking Oven

The following items are required for stacking ovens:

Quantity	Description
2	4"x4"x4' (10.2cm x 10.2cm x 61cm)
	board
2	4"x4"x2' (10.2cm x 10.2cm x 122cm)
	board (stacking ovens only)
2	1-1/2"x7' (3.8cm x 213cm) rigid pipe
	Schedule 40
2	Custom M5 Lift (Vermette)

D. Base Section Assembly

1. Locate the carton containing the oven base. Remove and inventory the contents. Refer to the correct parts lists below and also to Figure 2-1.

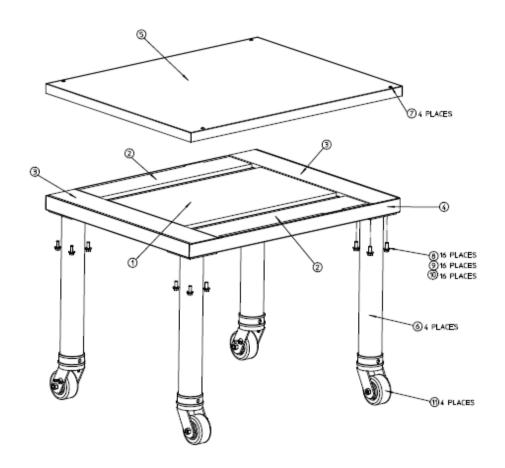


Figure 2-1

Single Oven Stand Parts

Item	Qty,	Part Number	Description
1	1	67880	INSUL, BASE PART A
2	2	67881	INSUL, BASE PART C
3	2	67882	INSUL, BASE PART B
		PARTS LISTED ABOVE ARE FROM 69978 KIT,	DZ33I INSULATION
4	1	67884	WLDMT. BASE DZ33
5	1	67614	PANEL, TOP
6	4	66948	ASSY. LEG, CASTER
7	4	59156	SCR, SL TRUSS HD SS 10-32X1-1/2"
8	16	21422-0001	WASHER, LOCK SPLIT 3/8" ZP
9	16	21416-0001	WASHER, FLAT SS 3/8"
10	16	2000531	SCR, CAP HX HD 3/8"-16X1" NP

Double Oven Stand Parts

	Qty,	Part Number	Description				
1	1	67880	INSUL, BASE PART A				
2	2	67881	INSUL, BASE PART C				
3	2	67882	INSUL, BASE PART B				
		PARTS LISTED ABOVE ARE FROM 69978 KIT,	DZ33I INSULATION				
4	1	67884	WLDMT. BASE DZ33				
5	1	67614	PANEL, TOP				
6	4	66948	ASSY. LEG, CASTER				
7	4	59156	SCR, SL TRUSS HD SS 10-32X1-1/2"				
8	16	21422-0001	WASHER, LOCK SPLIT 3/8" ZP				
9	16	21416-0001	WASHER, FLAT SS 3/8"				
10	16	2000531	SCR, CAP HX HD 3/8"-16X1" NP				

Triple Oven Stand Parts

Item	Qty,	Part Number	Description							
1	1	67880	INSUL, BASE PART A							
2	2	67881	INSUL, BASE PART C							
3	2	67882	INSUL, BASE PART B							
	PARTS LISTED ABOVE ARE FROM 69978 KIT, DZ33I INSULATION									
4	1	67884	WLDMT. BASE DZ33							
5	1	67614	PANEL, TOP							
6	4	66947	ASSY. LEG, CASTER							
7	4	59156	SCR, SL TRUSS HD SS 10-32X1-1/2"							
8	16	21422-0001	WASHER, LOCK SPLIT 3/8" ZP							
9	16	21416-0001	WASHER, FLAT SS 3/8"							
10	16	2000531	SCR, CAP HX HD 3/8"-16X1" NP							

Quad Oven Stand Parts

Item	Qty,	Part Number	Description
1	1	67880	INSUL, BASE PART A
2	2	67881	INSUL, BASE PART C
3	2	67882	INSUL, BASE PART B
		PARTS LISTED ABOVE ARE FROM 69978 KIT,	DZ33I INSULATION
4	1	67884	WLDMT. BASE DZ33
5	1	1 67614 PANEL, TOP	
11	4	58930	CASTER

- Lay Wldmt. Base (Item 4, Figure 2-1) upside down on the floor and remove the protective film from base. Attach the four Assy. Leg, Caster (Item 5) using 16 SCR, Cap HX HD 3/8"-16X1" NP (Item 10), 16 Washer, Flat SS 3/8" (Item 9), and 16 Washer, Lock Split 3/8" ZP (Item 8). For Quad screw casters directly into basepad.
- Turn the base assembly upright and set aside. Also set aside 4 SCR, SL Truss HD SS 10-32X1-1/2" (Item 7), and

Panel, Top (Item 5). The base will be used to stack oven on, and the top secures to the top of the oven top oven.

E. Mounting Single Oven onto Base Assembly

- Cut the bands holding the protective shipping carton to the skid. Carefully remove the bands and lift the carton up off the oven.
- 2. Cut the bands holding the oven to the skid.

- 3. Slide the two 4"X4"X10' (10.2cm X 10.2cm X 304.8cm) pieces of wood through the oven cavity. The wood pieces should be sticking out of the oven equally on both sides. One of the pieces of wood should be placed to the rear of the oven and the other in the front of the oven. See figure 2-2.
- 4. Position the two Vermette lifts on either ends of the oven under the 10' (304.8cm) pieces of wood, making sure the legs with wheels are up as close as possible to the skid. Place the two 4"X4"X4' (10.2cm X 10.2cm X 122cm) pieces of wood across the two Vermette forks, at least 6" (182.88cm) in from the end of the forks, and centered with the 10' (304.8cm) pieces of wood running through the oven cavity. See figure 2-2.

IMPORTANT: Lift the oven with the 4"X4"X10' (10.2cmX10.2cmX122cm) running through the oven **only**. **DO NOT** lift the oven by the conveyor. **Damage WILL result**.

- With the 4' (122cm) pieces positioned under the 10' (304.8cm) begin to lift the oven with the two Vermette lifts. (keeping the oven level at all times).
- 6. When the oven is completely free from the skid, slide it out from under the oven. (dispose of the skid in accordance with local regulations).
- Lift the oven high enough to position the stand under. Roll the stand under the oven (<u>do not</u> roll the oven and lifts over the stand) and lower onto the stand. The bottom of the oven will wrap around the stand.

(careful not to get hands or fingers between oven and stand).

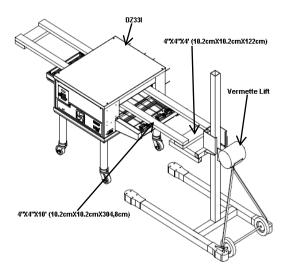


Figure 2-2

F. Stacking and Mounting Two Ovens

- Cut the bands holding the protective shipping carton to the skid. Carefully remove the bands and lift the carton up off the oven.
- Cut the bands holding the oven to the skid.
- 3. Slide the two 4"X4"X10' (10.2cm X 10.2cm X 304.8cm) pieces of wood through the oven cavity. The wood pieces should be sticking out of the oven equally on both sides. One of the pieces of wood should be placed to the rear of the oven and the other in the front of the oven. See figure 2-2.
- 4. Position the two Vermette lifts on either ends of the oven under the 10' (304.8cm) pieces of wood, making sure the legs with wheels are up as close as possible to the skid. Place the two 4"X4"X4' (10.2cm X 10.2cm X 122cm) pieces of wood across the two Vermette lift forks, at least 6" (182.88cm) in from the end of the forks, and centered with the 10' (304.8cm) pieces of wood running through the oven cavity. (figure 2-2)

IMPORTANT: Lift the oven with the 4"X4"X10' (10.2cmX10.2cmX122cm) running through the oven only. DO NOT lift the oven by the conveyor. Damage WILL result.

- 5. With the 4' (122cm) pieces positioned under the 10' (304.8cm) begin to lift the oven with the two Vermette lifts (keeping the oven level at all times).
- 6. When the oven is completely free from the skid, slide it out from under the oven. (dispose of the skid in accordance with local regulations).
- 7. Elevate the upper oven high enough to position the lower oven underneath.
- Roll the stand with the lower oven under the upper oven (<u>do not</u> roll the oven and lifts over the lower oven) and lower onto the lower oven. The bottom of the oven will wrap around the top of the lower oven.

(<u>careful not to get hands or fingers</u> between ovens).

G. Stacking and Mounting Three Ovens

 Follow the previous procedures in step F.

(careful not to get hands or fingers between ovens).

IMPORTANT: Lift the oven with the 4"X4"X10' (10.2cmX10.2cmX122cm) running through the oven cavity **only**. **DO NOT** lift the oven by the conveyor. **Damage WILL result.**

H. Stacking and Mounting Four Ovens

1. Follow the previous procedures in step F.

(<u>careful not to get hands or fingers</u> between ovens).

IMPORTANT: Lift the oven with the 4"X4"X10' (10.2cmX10.2cmX122cm) running through the oven cavity **only**. **DO NOT** lift the oven by the conveyor. **Damage WILL result.**

I. Electrical Connection

All wiring and electrical connections required for the oven(s) must be performed by a certified electrician. Each oven must be wired according to the electrical specification for the oven rating. See charts in Section 1, electrical schematic in Section 7 and schematics furnished with the oven. A separate ground wire must be supplied with each oven. Conduit may

not be used as ground. Consult national or local electrical codes for wire gauge and circuit breaker ratings.

CAUTION: All DZ Series Ovens are manufactured for <u>voltage specific</u> operation.

IMPORTANT: ALWAYS carefully check the data plate voltage rating to be sure which voltage to apply when installing a DZ Series oven. Applying the wrong voltage can immediately damage oven.

If local codes allow, we recommend that flexible conduit be used for final connection as the oven assembly is on casters and the use of flexible conduit will allow movement for cleaning.

J. Loose Parts

The aluminum crumb trays (PN 67932) (2 per oven) are shipped mounted in place. They are removable for cleaning and are considered loose parts. They should be checked prior to startup to be sure they are properly in place. The stainless steel draft curtain and exit shelves are packed in a separate carton inside oven

NOTE: Make sure protective plastic film is removed from draft curtains before installation.

1. **Draft Curtains**, stainless steel (PN 322904) (2 per oven). These mount above the conveyor at the ends of the cooking chamber. They serve to reduce drafts through the oven chamber and to reduce heat loss to the environment. To install, locate the thin rod above each entrance/exit of the oven. Hang one draft curtain over each rod. They are in their lowest position when hanging vertical. To raise the curtains to their highest position, swing them outward until they are horizontal and then push in toward oven chamber.

NOTE: Make sure protective plastic film is removed from exit shelves before installation.

2. Exit Shelves, stainless steel (PN 69776) (2 per oven). These shelves mount in cantilever fashion at the exit and entrance end of the conveyor and provide a landing zone for cooked product. Depending on the operation they may or may not be needed or used. To install, place the slotted end of the shelf over the crossbar at the end of the conveyor extension frame.

SECTION 3 – OPERATION

A. LOCATION OF CONTROLS

1. Operation Controls

The following information provides a basic description of the oven's controls, their locations and the functions they perform. It is necessary that the operator be familiar with them.

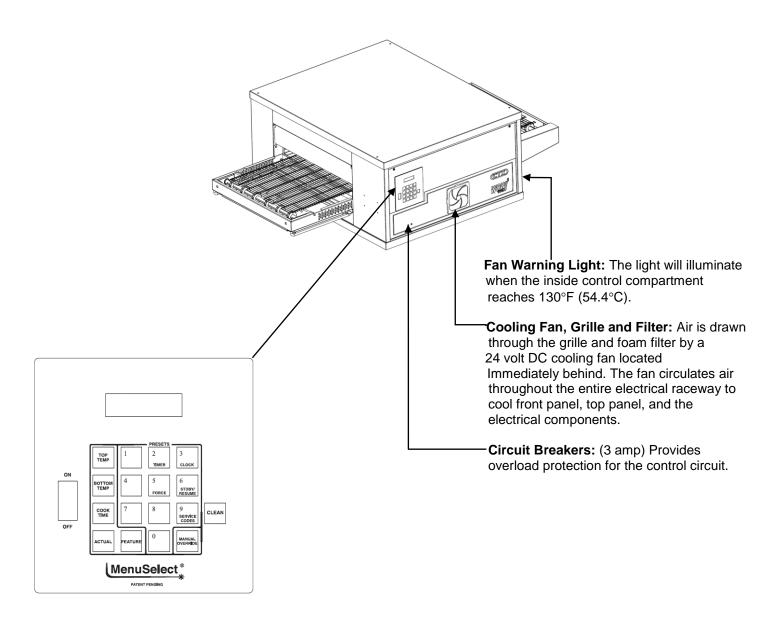


Figure 3-1 Operating Controls

B. MenuSelect™ CONTROL OPERATION AND PROGRAMMING

1. Function of Controls

The oven operating controls are located to the left of the stainless steel front panel. The control panel consists of an ON/OFF switch, a keypad with multi-function keys, and a vacuum tube florescent display. The letter callouts in Figure 3-4 coincide with the following list which explains the keypad.

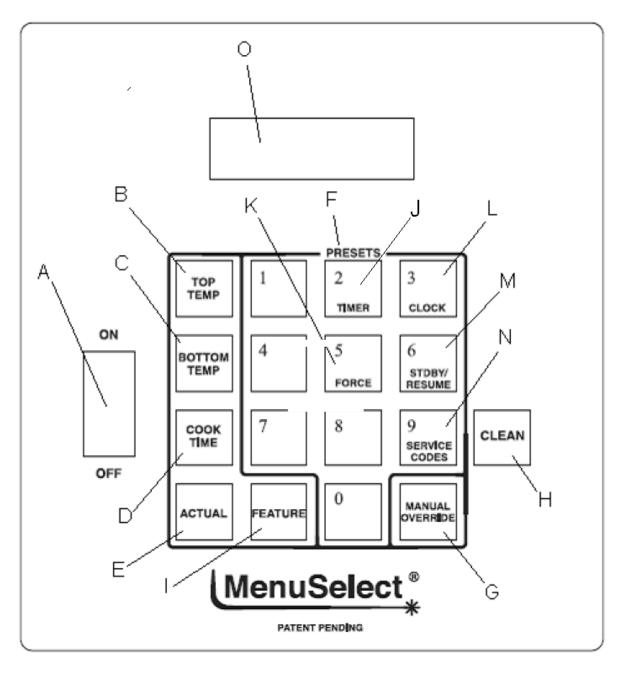


Figure 3-4 Control Panel

The following information provides a basic description of the oven controls, their location and the function they perform. Refer to Figure 3-4

A. POWER ON/OFF

· Used to turn oven ON and OFF

B. TOP TEMPERATURE

• Used to change set temperature of the top zone(s) during programming.

C. BOTTOM TEMPERATURE

• Used to change set temperature of the bottom zone(s) during programming

D. COOK TIME

• Used to display and/or change cook time setpoint of a preset menu.

E. ACTUAL

• Used to briefly display actual temperature of all 4 zones for about 3 to 4 seconds.

F. Preset Menu Keys 0-9

• Used to operate or program oven in one of ten preset menu modes.

NOTE: In the event of a power failure the oven will default back to the previously used preset menu when power is restored. Always check that the oven is in the desired mode when the power is restored.

G. MANUAL OVERRIDE

Used to override preset menu setting and operate oven at any desired temperature and cook time.

H. CLEAN

• Used to enter the self- cleaning mode of oven operation.

I. FEATURE

 Used to initiate features. Pressed previous to entering a feature (TIMER, FORCE, CLOCK, STDBY/RESUME or SERVICE CODES).

J. TIMER

Used to set ON/OFF times for automatic timing.

K. FORCE

• Used to take a deck out of timing (auto) mode or cleaning mode.

L. CLOCK

· Used to set the oven clock

M. STDBY/RESUME

• Used to enter and exit 25% reduced power standby mode.

N. SERVICE CODES

• Used to access service modes.

O. Display. Provides readout of data including:

- Data being entered
- Error and service information
- Set and actual temperatures
- Set cook times
- Oven status

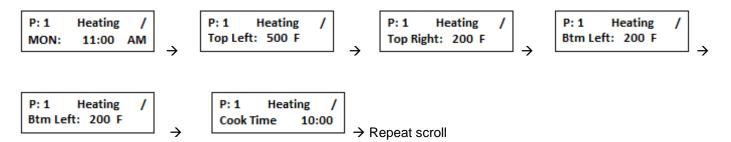
1. OPERATION of theZ33I MenuSelect™ Control Ovens

a. Turn Oven Deck ON

- 1. Turn ON main disconnect switch at the wall box.
- 2. Turn keypad ON/OFF switch ON.

NOTE: If oven is programmed for automatic timing, turn keypad ON/OFF switch to ON and oven will automatically turn ON and OFF at the set times. Keypad ON/OFF switch must remain ON for timed operation.

3. The display will automatically scroll through six (6) screens. See below for the screen order.



b. Preset Menu Select Operation

1. Press desired preset menu #

<u>Step</u> <u>Press Key</u> <u>Display Reads</u>

P: 1 Ready / Top Left: 750 F

The preset menu that was being used when the oven was turned OFF.

0 g SERVICE CODES

P: 2 Heating / Top Left: 800 F

Oven deck is ready for cooking when "READY" is displayed

c. View Actual Temperatures in all 4 zones

NOTE: To view the actual temperature the **ACTUAL** key must be pressed while the P: # is displayed.

<u>Step</u> <u>Press Key</u> <u>Display Reads</u>

P: 1 Ready / Top Left: 200 F

Ready = Oven at set temperature

Heating = Oven heating up to set temperature

Cooling = Oven cooling down to set temperature

1. Push ACTUAL key

TL= 200 F TR= 200 F BL= 200 F BR= 200 F

After approximately 3 to 4 seconds the display reverts to the original program screen

P: 1 Ready / Top Left: 200 F

d. View set temperature in all 4 zones

<u>Step</u> <u>Press Key</u> <u>Display Reads</u>

P: 1 Ready / Top Left: 200 F

TOP TEMP Top Temp: 200 200

1. View set top temperature

TOP TEMP

P: 1 Ready / Top Left: 200 F

2. Press TOP TEMP key

BOTTOM TEMP Btm Temp: 200 200

3. View set bottom temperature

BOTTOM TEMP

P: 1 Ready / Top Left: 200 F

4. Press BOTTOM TEMP key

e. Viewing set Cook Time

Step Press Key Display Reads

P: 1 Ready / Top Left: 200 F

COOK TIME Cook Time: 10:00

1. View set Cook Time

COOK TIME P: 1 Ready / Top Left: 200 F

2. Press COOK TIME key

f. Put oven deck in STANDBY mode

This feature allows a deck to be put into an energy saving standby mode which reduces the temperature of the oven deck by 25%.

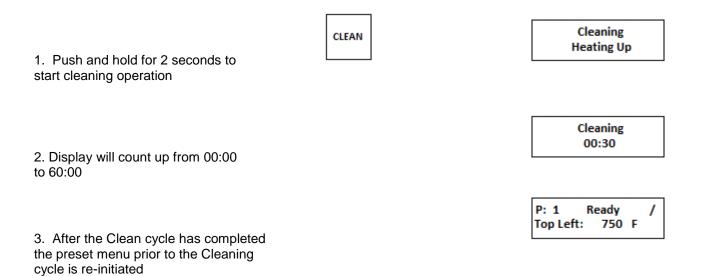
<u>Step</u> **Press Key Display Reads** P: 1 Ready Top Left: 200 Select Feature FEATURE 1. Press FEATURE key 6 Standby STDBY/ 00:00:01 Time: RESUME 2. Press STDBY/RESUME key The timer next to the Time: in the display will start to count up indicating

display will start to count up indicating the amount of time the oven is in the standby mode.

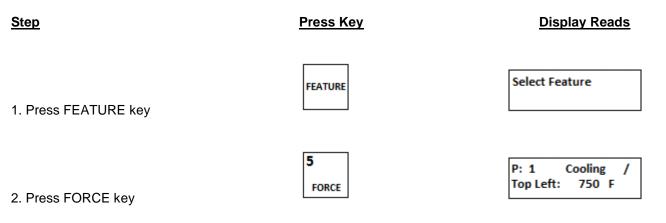
g. Resume normal operation from the standby mode

This feature is used to return an oven deck back to normal operation from the standby mode.

<u>Step</u>	Press Key	Display Reads
		Standby Time: 00:00:01
1. Press FEATURE key	FEATURE	Select Feature
2. Press STDBY/RESUME key	6 STDBY/ RESUME	P: 1 Heating / Top Left: 200 F
h. Cleaning Operation		
<u>Step</u>	Press Key	Display Reads
		P: 1 Ready / Top Left: 750 F



i. Cancel cleaning operation



The oven deck will return to the preset menu that was in use prior to the cleaning cycle

3. Programming the MenuSelect[™] control on DZ33I ovens

The DZ33I oven contain one MenuSelect[™] control. Through this control you are capable of programming all four heating elements as well as the conveyer motor speed.

This oven has four heating zones as shown in Figure 3-5

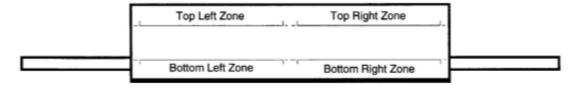


Figure 3-5

The oven controller controls all functions of the oven. To operate the oven the controller must be programmed. The following pages contain a step by step "hands on" programming exercise. We invite you to program your oven by following the examples.

NOTE: This exercise assumes first time start after installation. Programming from the factory is 200 0 F (93 0 C) temperature settings and 2 minute cook times.

a. Turn Oven Deck ON

1. Turn ON the main disconnect switch at the wall box.

Displays Reads

Oven Off MON 11:50:30 AM

NOTE: The date and time may be different from shown values. The date and time will be set later in this tutorial.

- 2. Turn Keypad ON/OFF switch ON.
- b. The control is for programming, and must be unlocked to program.
 - 1. When trying to program the control it will ask for a code.
 - 2. In order to enter the program mode the code **1397** must be entered.
 - 3. By entering this code the programming modes are enabled and will remain open for a period of 30 seconds. After this time period the keypad will then ask for the code again.
 - 4. After entering the code number press a preset program button (program number 0 through 9) and set the top temperatures, bottom temperatures, and cook time values.
 - 5. After the desired preset values are set, the control will automatically retain this information till the program is changed.

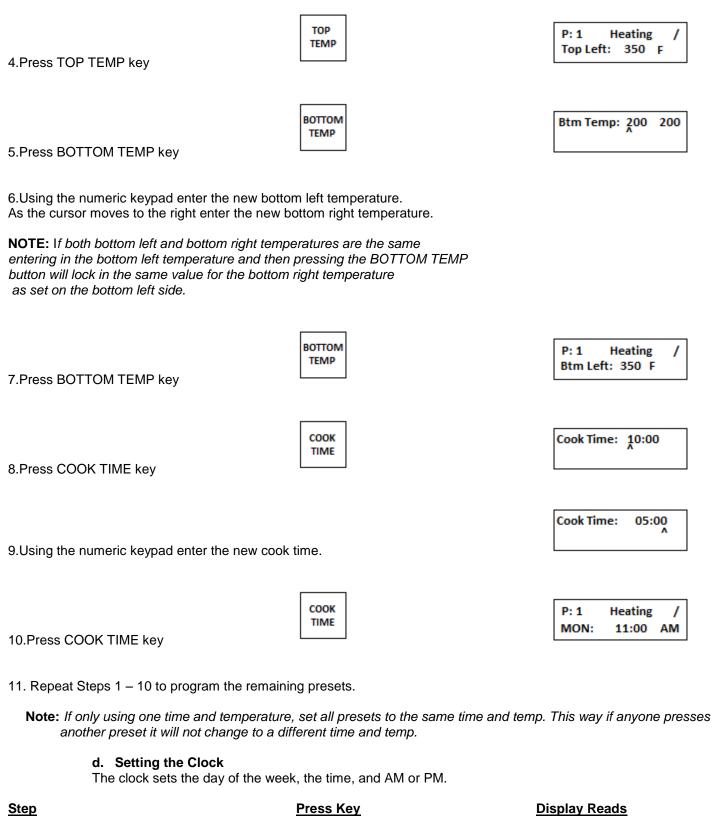
NOTE: Do not lose the code number (1397) or you will not be able to change your program if needed.

c. Setting the preset MenuSelect[™] temperatures in all four zones and the oven cook time.

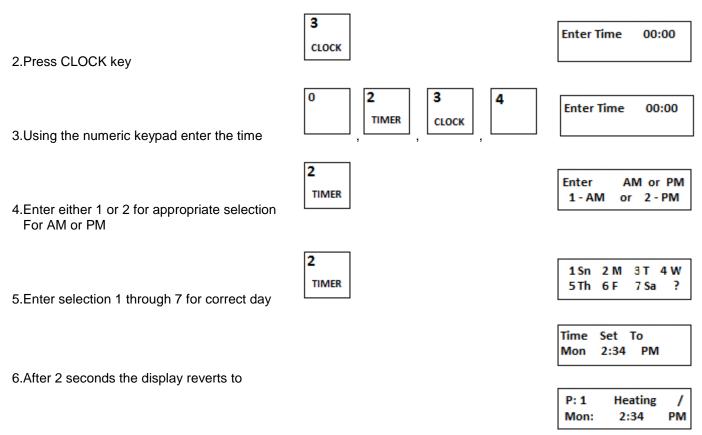
Press Key Display Reads Step P: 1 Heating SERVICE Top Left: 200 F CODES 1. Select preset menu key to be Programmed TOP Top Temp: 200 200 TEMP 2.Press TOP TEMP key Top Temp: 350 450

3.Using the numeric keypad enter the new top left temperature. As the cursor moves to the right enter the new top right temperature.

NOTE: If both top left and top right temperatures are the same entering in the top left temperature and then pressing the TOP TEMP button will lock in the same value for the top right temperature as set on the top left side.



<u> </u>	<u> </u>	<u> </u>
	FEATURE	Select Feature
1. Press FEATURE key		

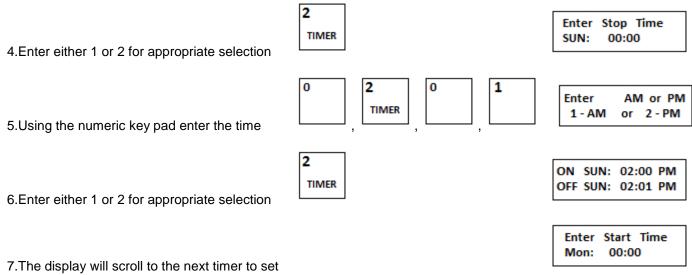


d. Set the Timer

The timer can be set to turn the oven ON and OFF automatically. The timer cycle runs for seven days and then repeats itself. The times set for the oven to turn ON can be the same or different for each day as can the times set for the oven to turn OFF. The timer program allows only one ON and one OFF per 24 hour day, midnight to midnight. Refer to the chart (Figure 3-6) to assist in choosing ON/OFF times.

Note: When using the timer you <u>MUST</u> program every day of the week, if there is a day you do not want the oven to turn ON you can program the oven to come on for one (1) minute only.

<u>Step</u>	Press Key	Display Reads
1.Press FEATURE key	FEATURE	Select Feature
2. Select TIMER key	2 TIMER	Enter Start Time SUN: 00:00
3.Using the numeric key pad enter the time	0 2 0 0 , 0 , 0 , 0	Enter AM or PM 1-AM or 2-PM



8.Repeat steps 1 through 7 until all seven days of the week have the timer set for their appropriate time to turn ON and time to turn OFF.

> The oven is now programmed for automatic timing. When in the timing mode DO NOT use the ON/OFF switch to turn the oven ON and OFF, the switch must remain in the ON position for timing mode operation. When the timer cycles the oven OFF the display will read "TIMING". When the timer cycles the oven ON again the operational status display will resume.

As stated earlier, the timer program only allows for on ON and OFF cycle per 24 hour day, midnight to midnight. When choosing an ON and OFF time use the following chart. When the chosen times are plotted it can be determined if there is a time conflict. The chart also provides a reference while the timers are being set. Important: OFF times cannot fall into the AM hours of the next day.

	Midnight								Noon Midnight																		
			AM												PI	M											
Key	Day	12	1	2	3	4	5	6	7	8	9	10	11	11:59	12	1	2	3	4	5	6	7	8	9	10	11	11:59
[1]	Sunday																										
[2]	Monday																										
[3]	Tuesday																										
[4]	Wednesday																										
[5]	Thursday																										
[6]	Friday																										
[7]	Saturday																										

Figure 3-6

f. Force out of automatic timing

The FORCE feature allows the user to remove the oven from automatic timing mode and turn it ON without changing the timer settings. When in normal operation mode FORCE has no effect.

<u>Step</u>	<u>Press Key</u>	<u>Display Reads</u>
1.Press FEATURE key	FEATURE	Select Feature
•	5	P: 1 Ready /
2.Press FORCE key	FORCE	P: 1 Ready / Top Left: 750 F

Oven will return to the preset menu # that was used previous to timing.

2
3.Press desired preset menu number

NOTE: These same steps can also be used to FORCE out of automatic cleaning. To return the oven to automatic timing mode turn ON/OFF switch to OFF position and then to ON position.

g. Manual Override operation

This feature is used to operate the oven deck manually. The oven deck is taken out of the MenuSelect TM mode by entering new parameters and is returned to the MenuSelect TM mode without saving the parameters.

Step

Press Key

MANUAL

OVERRIDE

1.Press MANUAL OVERRIDE key

P: 1 Ready / Top Left: 750 F

P: - Indicates preset mode

2.Set the oven deck temperature and cook time as in step c. The oven deck will function to the new settings, but the settings will not be saved.

M: 1 Heating \
Top Left: 200 F

M: - Indicates manual override mode

1

P: 1 Ready / Top Left: 750 F

3.To return to normal preset menu press the preset menu number.

h. Fahrenheit or Centigrade

This feature is used to change the display to read in either Fahrenheit (F) or Centigrade (C).

Step
Press Key

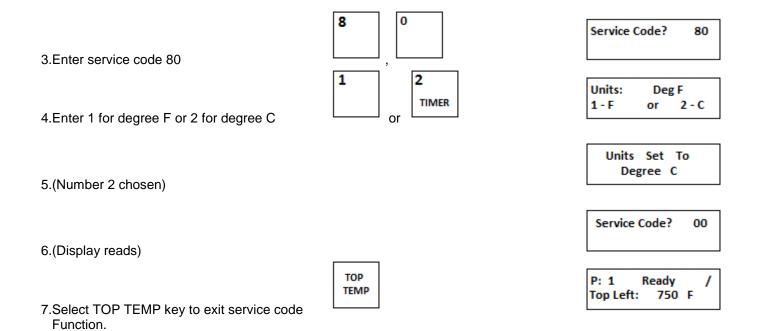
Display Reads

Select Feature

1.Press FEATURE key

9
SERVICE CODES key

Service Code? 00



Notes:

C. Cooking in a CTX oven

1. Cooking Trials

The purpose of conducting cooking trials is to determine the exact temperature settings and cooking time(s) needed to produce best results with your specific product(s). The fastest and easiest way to conduct these trials is to start with settings already established for product(s) similar to yours. We recommend they be used as beginning set points for your tests.

Testing can be completed easier and faster and with less confusion if you keep accurate records of each test. Choose your first product for test and look it up in the table Section 3-7 of this manual. Now program the oven with the temperatures and cook times shown. (Refer to section 3-7 Time and Temperature Guide)

NOTE: If you are starting the oven from "cold" please allow 30 minutes heat up time. The elements cycle after approximately 15 minutes, however, additional time for the oven chamber to become stabilized and evenly saturated with heat.

Begin your first trial run. Examine the finished product and evaluate it based on the following guidelines.

RESULTS

Outside too dark or burned Outside too light or not cooked Inside Overdone or dried out Inside Underdone or raw

SOLUTION

Reduce Temperatures Increase Temperatures Shorten Cooking Time Lengthen Cooking Time

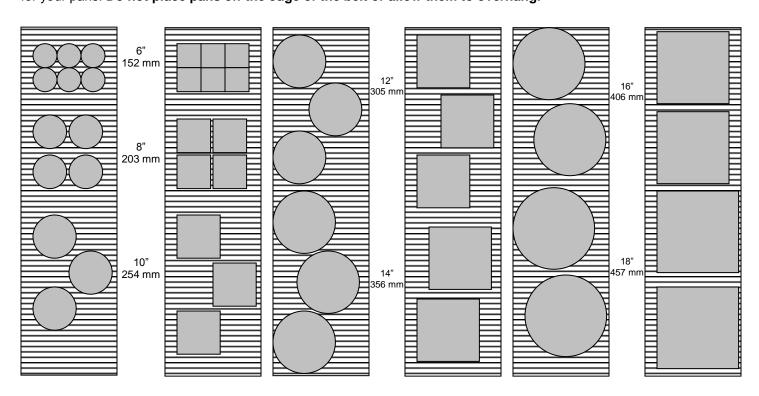
NOTE: Sometimes an increase in temperature may require a corresponding decrease in cooking time. Conversely a decrease in temperature may require a corresponding increase in cooking time.

After evaluating the results, make the indicated time/temperature setting adjustments and allow about 15 minutes for the oven to stabilize at the new temperature settings. It may be necessary to run several tests before you obtain the exact results you want.

2. Loading the Conveyor

Achieving maximum production is dependent on proper utilization of the conveyor belt. Depending on size, pans can be placed on the conveyor belt in a variety of configuration to best utilize the space available.

The following illustrations show placement of various size round and square pans to achieve maximum production rates. Pans in other sizes or shapes will require different placement. You will have to determine the best placement configuration for your pans. **Do not place pans off the edge of the belt or allow them to overhang.**



Production output for any pan size can be easily calculated using the following formula:

This formula is based on a succession of single pans being placed on the belt. No consideration is given to multiple pans across the 18" wide belt nor to staggered loading. The hourly production rate obtained by the above calculation must be multiplied by a factor equal to the number of pans placed across the belt.

3. Production Capacity Charts

The production output figures shown below are based on using round pans in the various sizes shown. These figures reflect output.

Model DZ33I Series Oven

COOK TIME	6"	8"	9"	10"	12"	14"	16"	18"
4 min.	232	116	103	66	47	33	29	26
5 min.	186	93	83	53	37	27	24	21
6 min.	155	78	69	44	31	22	20	17
7 min.	133	66	59	37	27	19	17	15
8 min.	116	52	52	33	23	17	15	13
9 min.	103	52	46	30	21	15	13	11
10 min.	93	47	41	26	19	13	12	10
12 min.	78	39	34	22	16	11	10	9
14 min.	66	33	30	19	13	9	9	7
16 min.	58	29	26	17	12	8	8	6
18 min.	52	26	23	15	10	7	7	6
20 min.	47	23	21	13	9	6	6	5

D. Time and Temperature Guide

Figure 3-7

Product	Zone Temperature		Cook	Pan Type	Amount	State					
	Entrance	Exit	Time Min.	and Size	Weight or Count						
	Top / Bott	Top / Bott	IVIIII.		Count						
Appetizers											
Nachos	850/850 F	750/750 F	3	Alum.10"	10 oz.	Fresh					
	454/454 C	398/398C									
Oysters	900/900 F	850/850 F	4	Alum	8-Jun	Fresh					
Rockefeller	482/482 C	454/454 C									
Potato Skins	850/850 F	750/750 F	3	Alum 10"	10 oz.	Fresh					
	454/454 C	398/398 C									
Rurmaki	850/850 F	750/750 F	6	Alum	8-Jun	Fresh					
	454/454 C	398/398 C									
Seafood	900/900 F	850/850 F	6	Alum 6"	4-6 oz.	Fresh					
Kabob	482/482 C	454/454 C									

Product	Zone Tem	perature	Cook	Pan Type	Amount	State
	Entrance	Exit	Time Min.	and Size	Weight or Count	
	Top / Bott	Top / Bott	171111.		Count	
		Bake	d Go	ods		
Bagels	750/750 F	650/650 F	8	Wire Mesh	3 oz.	Fresh
	398/398 C	343/343 C				
Bread Sticks	850/850 F	750/750 F	6	Alum. ½	2 oz.	Fresh
	454/454 C	399/399 C		Size		
Brown &	700/700 F	600/600 F	4	Alum.	1 oz.	Thawed
Serve Rolls	370/370 C	315/315 C				
Corn Bread	600/600 F	750/700 F	15	Alum. ½	2-1/2 oz.	Fresh
	315/315 C	399/371 C		Size		
Dinner Rolls	700/700 F	600/600 F	8	Alum. ½	3 oz.	Fresh
	370/370 C	315/315 C		Size		
Fresh Bread	700/700 F	600/600 F	10	Alum. ½	1 lb.	Fresh
	370/370 C	315/315 C		Sheet		
Garlic Bread	900/900 F	800/800 F	2	Alum. ½	1 lb.	Fresh
	482/482 C	426/426 C		Size		
Muffins	600/600 F	750/700 F	15	Dark Alum.	3 oz.	Fresh
	315/315 C	399/371 C				
Popovers	550/550 F	650/650 F	30	Dark Alum.	3 oz.	Fresh
	288/288 C	343/343 C	_			
Soft Pretzels	800/800 F	700/700 F	8	Alum. ½	2 oz.	Fresh
	426/426 C	370/370 C		Size	~11	
Toast	900/900 F	800/800 F	2	None	Slice	Fresh
	482/482 C	426/426 C				
		E	Beef			
Beef Ribs –	900/850 F	900/850 F	8	Alum. ½	8 ribs	Precooked
Finish	482/454 C	482/454 C		Size		
Hamburger	900/900 F	900/900 F	4	Alum. ½	4 oz.	Fresh
4:1	482/482 C	482/482 C		Size		
Hamburger	900/900 F	900/900 F	5:30	Alum. ½	4 oz.	Frozen
4:1	482/482 C	482/482 C		Size		
Hamburger	900/900 F	900/900 F	10	Stainless	8 oz.	Fresh
2:1	482/482 C	482/482 C				
Liver &	850/850 F	750/750 F	10	Alum. ½	4 oz.	Fresh
Onions	454/454 C	398/398 C		Size		
Meatballs	900/900 F	800/800 F	8	Alum. ½	2 oz.	Refrig.
	482/482 C	426/426 C	_	Size		
Rib Eye	900/900 F	900/900 F	8	Stainless 4	10 oz.	Fresh
Steak	482/482 C	482/482 C		X 7		

Product	Zone Ten	nperature	Cook	Pan Type	Amount	State
	Entrance	Exit	Time Min.	and Size	Weight or	
	Top / Bott	Top / Bott	. IVIIII.		Count	
]	Beef Co	ontin	ued		
Salisbury	900/900 F	800/800 F	6	Alum. ½	4 oz.	Fresh
Steak	482/482 C	426/426 C		Size		
Strip Steak	900/900 F 482/482 C	900/900 F 482/482 C	8	Stainless 4 X 7	8 oz.	Fresh
Strip Steak	900/900 F 482/482 C	900/900 F 482/482 C	10	Stainless 4 X 7	12 oz.	Fresh
Tenderloin	850/850 F 454/454 C	750/750 F 399/399 C	15	Alum. ½ Size	4 lbs.	Fresh
		Breakfa	st Fo			
Bacon	900/900 F 482/482 C	800/800 F 426/426 C	6	Alum. w/rack	1 lb.	Refrig.
Biscuits	800/800 F 426/426 C	700/700 F 370/370 C	8	Alum. ½ Size	3 lbs.	Fresh
Egg Patty	750/750 F 398/398 C	650/650 F 343/343 C	4	Alum 5"	2 Eggs	Fresh
Fried Eggs	750/750 F 396/396 C	650/650 F 343/343 C	4	Alum. 5"	2 Eggs	Fresh
Puffy Omelet	750/750 F 398/398 C	650/650 F 343/343 C	8	Alum. Skillet 9"	6 oz.	Fresh
Quiche	700/700 F 370/370 C	600/600 F 315/315 C	25	Dk. Alum. Pie	24 oz.	Fresh
Sausage Links	900/900 F 482/482 C	800/800 F 426/426 C	6	Alum. ½ Size	1.5 oz.	Refrig.
Sausage Patty	900/900 F 482/482 C	800/800 F 426/426 C	4	Alum ½ Size	1.5 oz.	Refrig.
		Casse	erole	S		
Enchiladas	900/900 F 482/482 C	800/800 F 426/426 C	8	Oven China	12 oz.	Refrig.
Lasagna	850/850 F 454/454 C	750/750 F 396/396 C	12	Oven China	12 oz.	Refrig.
Macaroni & Cheese	700/700 F 370/370 C	600/600 F 315/315 C	25	Stainless 20 X 20	5 lbs.	Refrig.
Pasta & Sauce	850/850 F 454/454 C	750/750 F 396/396 C	8	Oven China	12 oz.	Refrig.

Product	Zone Tem	perature	Cook	Pan Type	Amount	State					
	Entrance	Exit	Time Min.	and Size	Weight or Count						
	Top / Bott Top / B		171111.		Count						
Cookies											
Bar Cookies	650/650 F	600/600 F	10	Alum. ½	1 lb.	Fresh					
	343/343 C	315/315 C		Size							
Brownies	700/700 F	600/600 F	15	Alum. ½	3-1/2 lbs.	Fresh					
	370/370 C	315/315 C		Size							
Chocolate	650/650 F	600/600 F	7	Alum ½	3/4 OZ.	Fresh					
Chip	343/343 C	315/315 C		Size							
Chocolate	650/650 F	600/600 F	8	Alum ½	½ oz.	Fresh					
Chip	343/343 C	315/315 C		Size							
Macaroons	650/650 F	600/600 F	15	Alum. ½	1 oz.	Fresh					
	343/343 C	315/315 C		Size							
Oatmeal	650/650 F	600/600 F	7	Alum. ½	1-1/2 oz.	Fresh					
	343/343 C	315/315 C		Size							
		Des	serts								
Baked Apple	700/700 F	600/600 F	25	Stainless	12	Fresh					
	370/370 C	315/315 C		12 X 20	Apples						
Baked	700/700 F	600/600 F	25	Custard	4 oz.	Fresh					
Custard	370/370 C	315/315 C		dish ½							
				Size							
Cream Puffs	550/550 F	650/650 F	30	Alum ½	2 oz.	Fresh					
	287/287 C	343/343 C		Size							
Fruit Pie	550/550 F	650/650 F	30	10" Pie	25 oz.	Fresh					
	287/287 C	343/343 C									
Layer Cake	650/650 F	600/500 F	15	Alum ½	3 lbs.	Fresh					
	343/343 C	315/260 C		Size							
Meringue Pie	650/650 F	600/600 F	7	10" Pie	26 oz.	Fresh					
	343/343 C	315/315 C									
Puff Pastry	650/650 F	600/600 F	15	Alum ½	4 oz.	Fresh					
	343/343 C	315/315 C		Size							

Product	Zone Temperature		Cook	Pan Type	Amount	State				
	Entrance	Exit	Time Min.		Weight or Count					
	Top / Bott	Top / Bott	IVIIII.		Count					
Fish and Seafood										
Filet of Sole	900/900 F	900/900 F	6	Stainless	6 oz.	Fresh				
	482/482 C	482/482 C		4 X 7						
Lobster Tail	900/900 F	900/900 F	8	Stainless	8 oz.	Fresh				
	482/482 C	482/482 C		4 X 7 with						
				water						
Sea Scallops	900/900 F	900/900 F	6	Stainless	8 oz.	Fresh				
	482/482 C	482/482 C		4 X 7						
Shrimp	900/900 F	900/900 F	6	Stainless	8 oz.	Fresh				
Scampi	482/482 C	482/482 F		4 X 7						
Snow Crab	900/900 F	900/900 F	6	Stainless	8 oz.	Fresh				
	482/482 C	482/482 C		4 X 7						
Stuffed	900/900 F	900/900 F	8	Stainless	8 oz.	Fresh				
Flounder	482/482 C	482/482 C		4 X 7						
White Fish	900/900 F	900/900 F	8	Stainless	8 oz.	Fresh				
Fillet	482/482 C	482/482 C		4 X 7						
Whole Trout	900/900 F	900/900 F	8	Stainless	9 oz	Fresh				
	482/482 C	482/482 C		4 X 7						
Poultry										
Chicken	800/800 F	700/700 F	15	Alum ½	12 pcs.	Fresh				
Cordon Bleu	426/426 C	370/370 C		Size	-					
Chicken	800/800 F	700/700 F	18	Alum ½	12 pcs.	Fresh				
Pieces	426/426 C	370/370 C		Size	-					
Half Chicken	800/800 F	700/700 F	20	Alum ½	1-1/4	Fresh				
	426/426 C	370/370 C		Size	lbs.					
Whole	800/800 F	700/700 F	25	Alum ½	2-1/2	Fresh				
Chicken	426/426 C	370/370 C		Size	lbs.					

Product	Zone Temperature		Cook	Pan Type	Amount	State				
	Entrance	Exit	Time Min.	and Size	Weight or Count					
	Top / Bott	Top / Bott								
Pork										
Breaded Chop	800/800 F	700/700 F	8	Alum ½	4 oz.	Fresh				
	425/425 C	370/370 C		Size						
Pork Chop	800/800 F	700/700 F	15	Alum 1/2	4 oz.	Fresh				
	425/425 C	370/370 C		Size						
Pork Ribs	900/900 F	850/850 F	8	Alum 1/2	Slab	Fresh				
(Finish)	482/482 C	454/454 C		Size						
Pizza										
Deep Dish	750/750 F	650/650 F	10	Black		Fresh				
	398/398 C	343/343 C		Deep Pan						
Calzone	675/675 F	625/625 F	8	Pizza		Fresh				
	375/375 C	329/329 C		Screen or						
				Black						
				Sheet Pan						
Stuffed	650/650 F	550/550 F	20	Black		Fresh				
	343/343 C	287/287 C		Deep Pan						
Thick Crust	775/775 F	675/675 F	6:30	Black		Fresh				
	412/412 C	357/357 C		Pizza Pan						
Thin Crust	800/800 F	700/700 F	5:30	Pizza		Fresh				
	426/426 C	370/370 C		Screen						
Thin Crust	650/650 F	550/550 F	9	Pizza		Frozen				
	343/343 C	287/287 C		Screen						
Thin Crust	800/800 F	750/750 F	5	Pizza		Pre-				
	426/426 C	398/398 C		Screen		Bake				

SECTION 4- CLEANING

Frequent cleaning will help your oven operate at peak performance and efficiency.

Keep your oven clean!

A. Cleaning the cooling Fan Filter

The foam filter and the protective grille of the cooling fan should be cleaned weekly. Daily cleaning may be required if flour has built up on filter. Snap the protective grille off and wipe clean with a cloth. Remove the foam filter and inspect it. If dusty, shake briskly. If there is greasy dirt, gently wash in warm soapy water, rinse, squeeze and set aside to dry completely. Reinstall filter and grille.

CAUTION:
Electrical Components are directly behind the cooling fan.
BE SURE filter is dry before reinstalling.

B. Oven Cleaning Operation

CTX series oven features a self-cleaning cycle already programmed into the control. When the cleaning cycle is engaged the control automatically increases all heat zones to 900°F (482°C). When all four hearing zones are at 900° the control will count down from 60:00 till it reaches 00:00 minutes. At the conclusion of the cycle the control returns the oven chamber to the status in effect prior to engagement of the cleaning cycle. If the oven is programmed to shut OFF (timing Mode) during the CLEAN cycle the CLEAN Mode will override program and continue at 900°F (282°C) for the full 60 minutes. Oven will then shut OFF in Timing Mode.

. Cleaning Operation

<u>Step</u>	<u>Press Key</u>	<u>Display Reads</u>
		P: 1 Ready / Top Left: 750 F
Push and hold for 2 seconds to	CLEAN	Cleaning Heating Up

1. Push and hold for 2 seconds to start cleaning operation

2. Display will count up from 60:00 to 00:00

P: 1 Ready / Top Left: 750 F

Cleaning

3. After the Clean cycle has completed the preset menu prior to the Cleaning cycle is re-initiated

i. Cancel cleaning operation

<u>Step</u>	Press Key	<u>Display Reads</u>
1. Press FEATURE key	FEATURE	Select Feature
2. Press FORCE key	5 FORCE	P: 1 Cooling / Top Left: 750 F

3. The oven deck will return to the preset menu that was in use prior to the cleaning cycle

CAUTION: Be sure oven is off and cool to the touch and the conveyor is stopped before attempting to wipe out the oven chambers

C. Cleaning "Loose" Parts

The following items must be removed from the oven to be cleaned manually.

CAUTION: These procedures should be performed only when the oven is OFF, cool to the touch and the conveyor is stopped

Crumb Trays: Clean daily. To remove: On the idler side lift and slide the tray toward the front of the oven. On the drive side lift up the side of the tray closest to the oven, push into chamber slightly, lower outer edge and remove. Empty residue, wash, rinse and dry thoroughly. Re-install.

Note: These trays are made of aluminum, do not use commercial oven cleaners, this will damage the trays.

Exit Trays: Clean Daily. To remove: Lift off from end of conveyor. Wash, rinse, and dry thoroughly.

Heat Curtains: Clean as needed. Unhook heat curtains from the rods above the entrance and exit end of the oven. Wash, rinse and dry thoroughly. Re-install.

NOTE: Commercial oven cleaners can be used to clean stainless steel "loose" parts.

D. Cleaning the Exterior

CAUTION: Turn off power to the oven at the wall box by pulling the main disconnect switch.

The body of the oven is stainless steel. It can be wiped clean using any commercially available stainless steel spray cleaner or you can clean the oven using a **DAMP** cloth wrung out of mild detergent solution. Rinse in similar fashion with clear water. **DO NOT** allow excess fluid to enter any of the cracks around the keypad or the lower control panel. **DO NOT** use abrasive compounds.

SECTION 5- MAINTENANCE & TROUBLESHOOTING

Note: An authorized CTX service representative must be contacted for any failures that cannot be remedied by Reprogramming or Rebooting System.

Caution: Do not remove access panels at the front or rear of oven. High voltage exists inside these compartments which can cause serious injury or death.

Maintenance:

1. 3 Months

Check and tighten all electrical connections.

Troubleshooting:

A. Chart 1- Error Messages

Display Error Code	<u>Explanation</u>	Corrective Action
OVER TEMP SHUTDN ZONE#	Over Temperature Error: This occurs if at least one zone's actual temperature exceeds the maximum allowed temperature of 980°F (526°C)	Call for service
EXT. AMB SHUTDN	External Ambient Error: This occurs if the external ambient temperature exceeds 150°F (65°C).	Check axial cooling fan at lower front of oven for proper operation and cleanliness. Also it may be the temperature of the area surrounding the oven must be reduced. If the fan is not running call for service.
INT. AMB SHUTDN	Internal Ambient error: This occurs if the internal ambient temperature exceeds 150°F (65°C).	Check axial cooling fan at lower front of oven for proper operation and cleanliness. Also it may be the temperature of the area surrounding the oven must be reduced. If the fan is not running call for service.
MOTOR JAMMED	Conveyor Jammed: Conveyor stopped when speed setting is between 1 and 60 minutes or conveyor runs full speed.	Clear item that is jamming the conveyor and/or reset circuit breaker on the front of the control panel. If conveyor still does not operate call for service.
MOTOR RUNAWAY	Conveyor Runaway: Conveyor runs at full speed.	Check for proper speed setting. If speed setting is correct call for service.

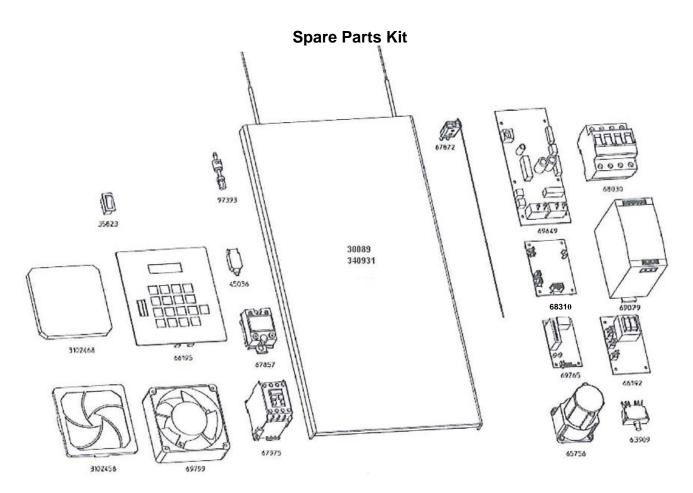
B. Chart 2- Troubleshooting

Symptom	Probable Cause	Remedy
Display shows irregular or illegible characters.	 Could have been caused by voltage spikes which caused interruption to programming. Could be caused by the display is overheating. 	 Turn keypad to OFF and then back ON. Turn main circuit breakers on electrical panel OFF and then back ON. This will completely restart program. If display remains illegible, see step 4. Check to see filter is clean and the cooling fan is running if not call service.
Conveyor belt stops completely or intermittently.	 If belt time is 15 mins or greater, belt will occasionally stop. This is called belt indexing and is not a problem. If belt time is set less than 15 mins check to see if drive roller is turning. 	 Check to see if reset is tripped. Check for objects jammed in conveyor and remove. Turn oven off, reset the breaker, and turn oven on. If motor still does not run, call for Service.
Display does not show READY after oven has been on for 20 min.	Oven has not reached set temp, maybe caused by a contact not closing or a failed temp probe or element.	 Check Set & Actual Temps for all zones. If actual temps are not within + or - 6°F (-14°C) within 30 min call for service.
Product is not cooking.	 Check cook time and temp for proper settings, conveyor could be running too fast or temp could be set wrong. Display shows temp low or zone(s) failed. Check for possible air flow 	 Adjust cook time and temp to correct settings. Turn ON/OFF switch OFF then flip main circuit breakers OFF and ON 2 or 3 times. Redirect air flow.

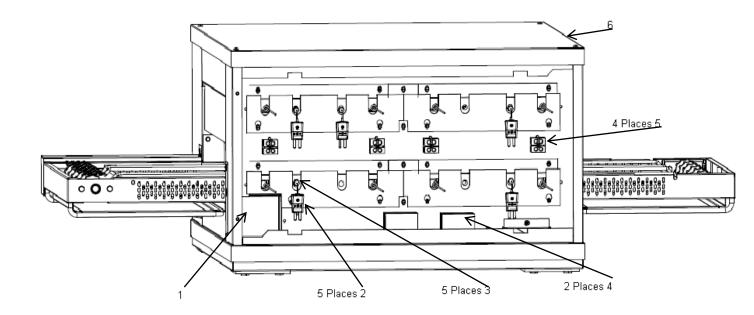
SECTION 6 - Parts Lists

A. Parts List

Part Number	Description	DZ33I, 208/240	DZ33I, 380/415
3102458	Plastic fan filter guard	1	1
3102469	Filter media	1 pkg.	1 pkg.
69799	24 VDC cooling fan	1	1
35823	On/Off switch	1	1
66195	Keypad control interface	1	1
67975	Contactor 4 pole	1	1
67857	Solid state relay	2	2
45036	3A Circuit breaker	1	1
67872	Thermocouple	2	2
97393	Bayonet Lock Assembly	2	2
30089	208V Hearth plate	1	0
340931	240V Hearth plate	1	1
65756	Gear motor	1	1
69765	Current sensing board	1	1
68310	Motor control board	1	1
69649	I/O board	1	1
68030	4 Pole circuit breaker	1	1
69079	24V power supply	1	1
66192	High limit board	1	1
63909	Interlock switch	1	1

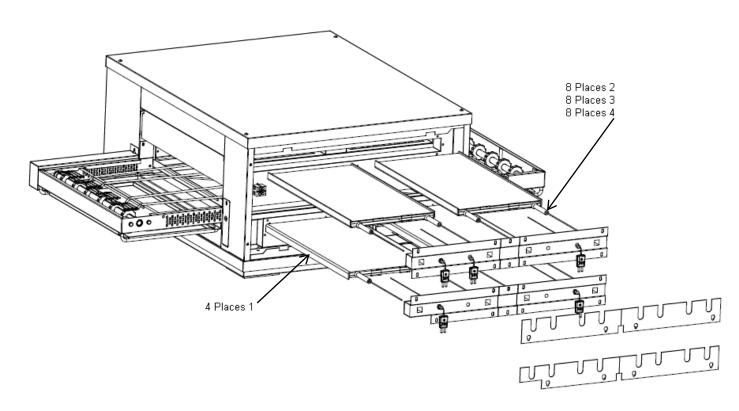


Oven Open Rear View



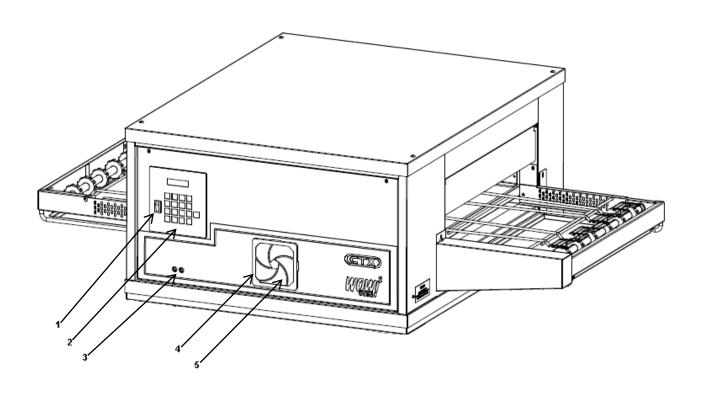
Item	Qty.	Part Number Description		
1	1	65756	Gear Motor (SB)	
2	5	67872	Thermocouple	
3	5	97393	Bayonet	
4	2	27480-0001	Terminal Block 175A	
5	4	65806	Terminal Block 85A	
6	1	67614	Top Panel	

Elements Exposed View



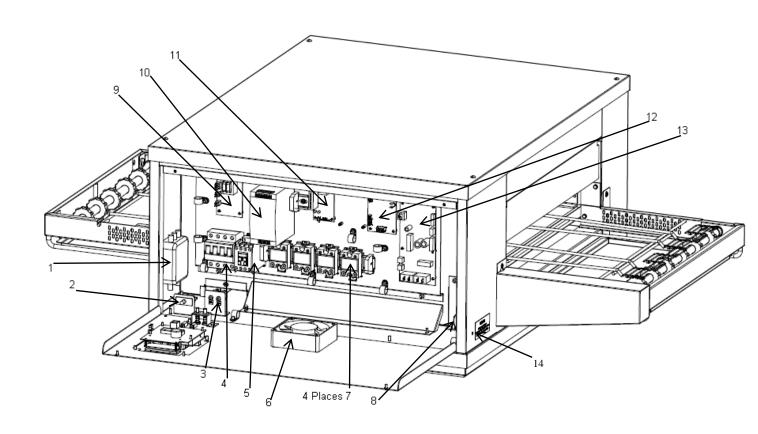
Item	Qty.	Part Number	Description	
1	4	30089	208V Hearth Plate	
1	4	340931	240V Hearth Plate	
2	8	69557	Porcelain Tube	
3	8	220018	Sleeve, Insulating	
4	8	F706A8701	Sleeve, Insulating	
			3/16" 240C	

Front Closed View



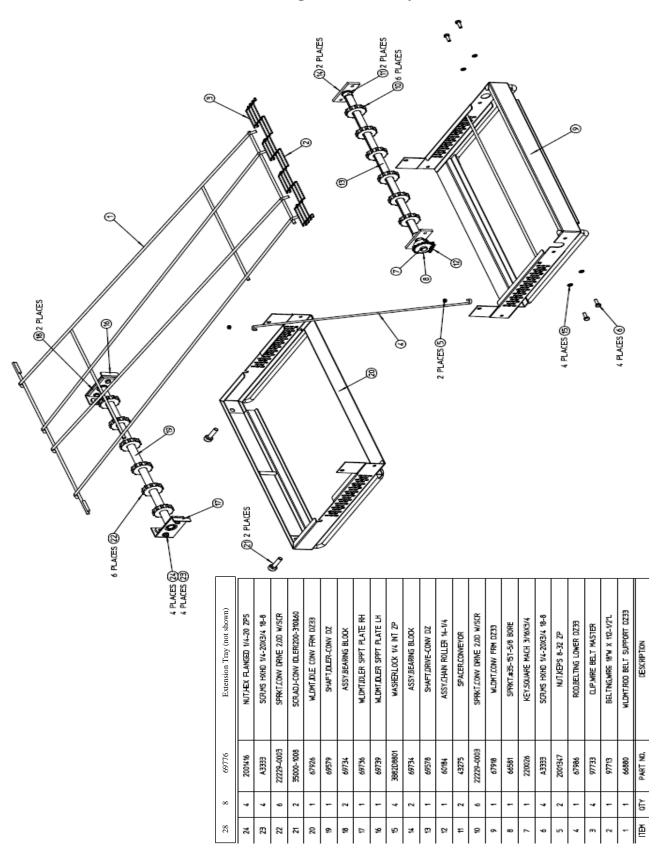
Item	Qty.	Part Number	Description	
1	1	35823	On/Off Switch	
2	1	66195	Keypad Interface	
3	2	45036 3A Circuit Breake		
4	1	3102458	Fan Filter Guard	
5	1	3102468	Filter Media	

Front Open View

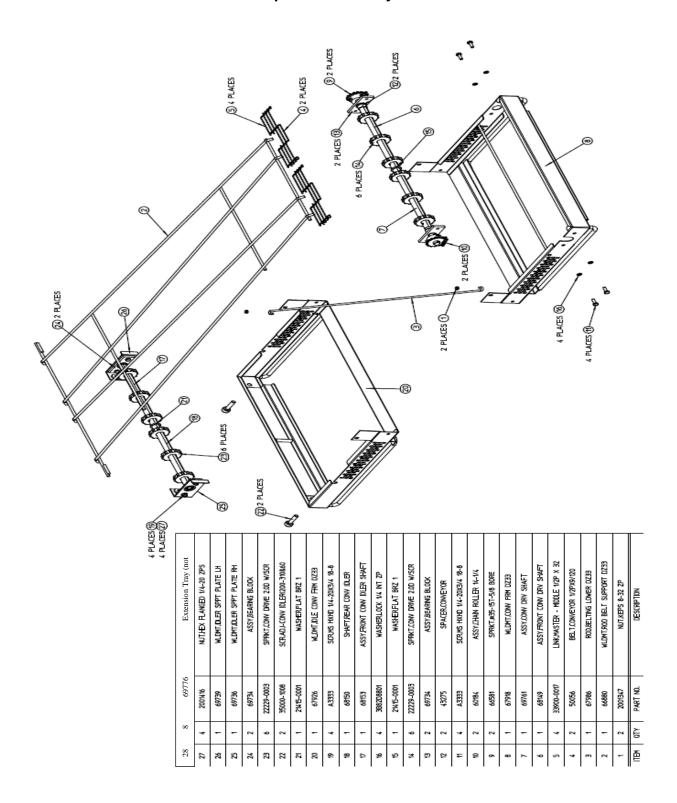


Item	Qty.	Part Number	Description
1	1	33813	RFI Filter
2	1	63909	Interlock Switch
3	2	45036	3 Amp Breaker
4	1	68030	4 Pole Circuit Breaker
5	1	67975	4 Pole Contactor
6	1	69799	24 VDC Cooling Fan
7	4	67857	75 A Solid State Relay
8	1si., 2sb.	65756	Gear Motor
9	1	66192	Limit Control
10	1	69079	24V Power Supply
11	1	69765	Current Sensing Board
12	1 si., 2sb.	68310	Motor Control Board
13	1	69649	I/O Board
14	1	69711	LED, Panel Mount
			Indicator

Single Belt Conveyor

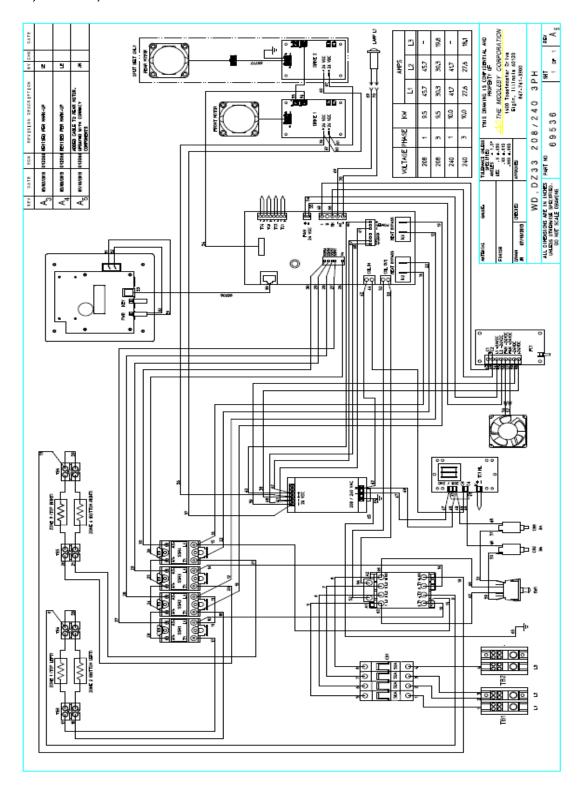


Split Belt Conveyor

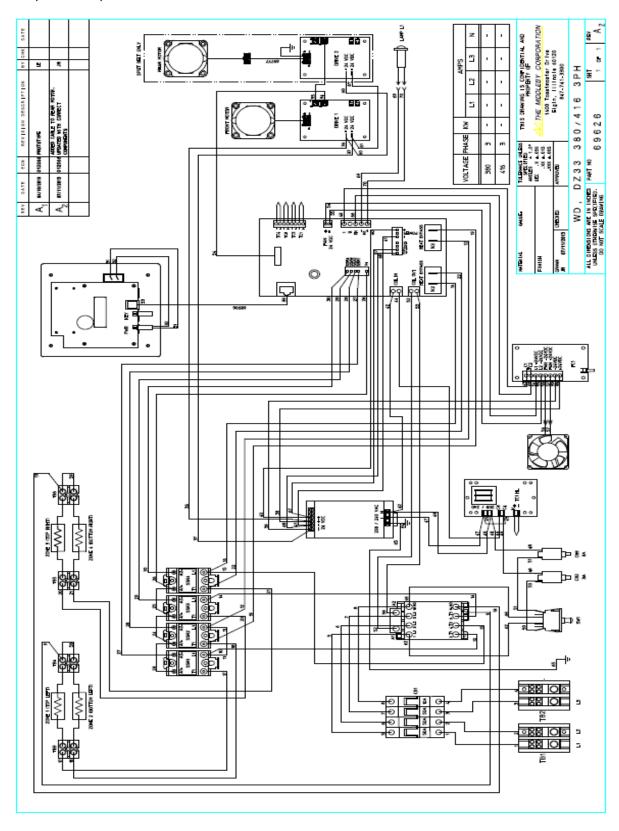


Section 7 - Schematics

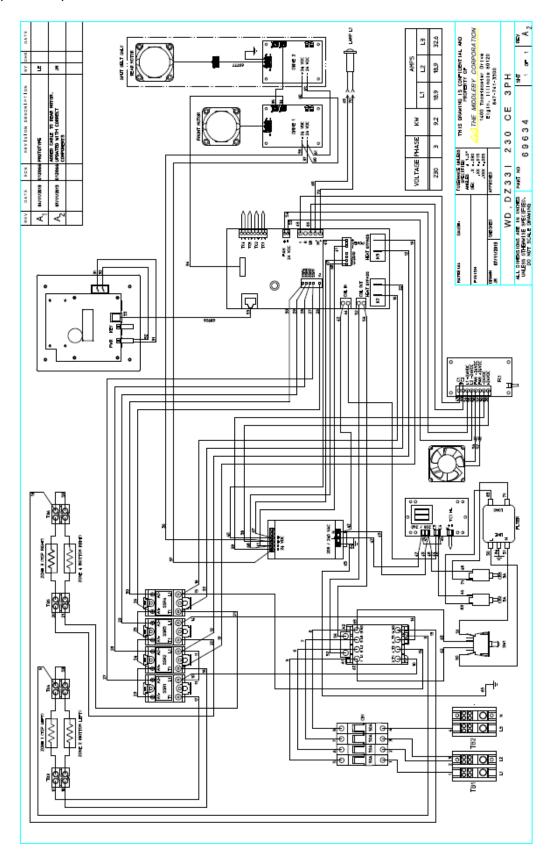
A. DZ33I, 208/230V, 3Ph Schematic



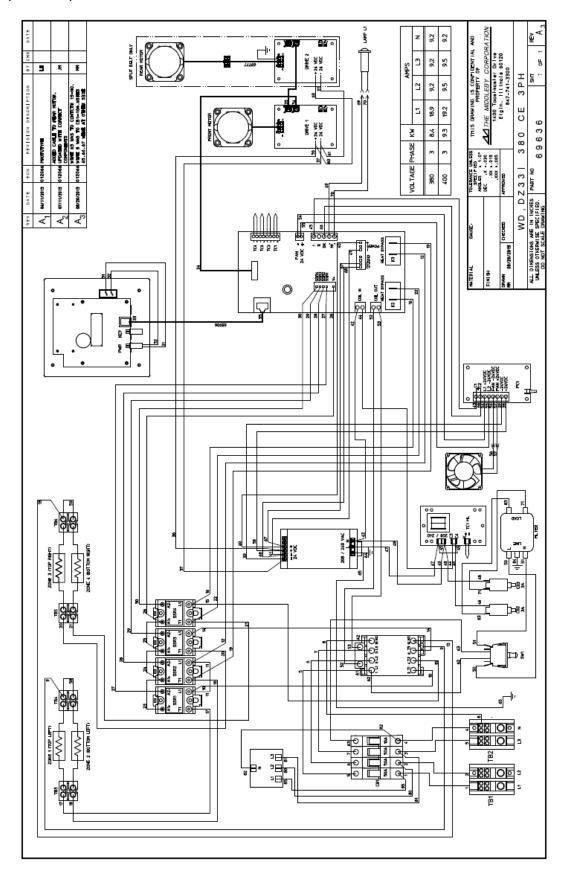
B. DZ33I, 380/415V, 3 Ph Schematic



C. DZ33I, 230V CE, 3 Ph Schematic



D. DZ33I, 380V CE, 3 Ph Schematic



Notes: