Rotisserie Oven

MODEL VGG (Revision G) Service Manual





CS-TM-058.02 Revised 9/06/17

Rotisserie Oven Table of Contents

BKI LIMITED WARRANTY

2812 Grandview Dr. • Simpsonville, SC 29680 • USA (864) 963-3471 • Toll Free: (800) 927-6887 • Fax: (864) 963-5316

WHAT IS COVERED	This warranty covers defects in material and workmanship under normal use, and applies only to the original purchaser providing that: The equipment has not been accidentally or intentionally damaged, altered or misused; The equipment is properly installed, adjusted, operated and maintained in accordance with national and local codes, and in accordance with the installation and operating instructions provided with this product. The serial number rating plate affixed to the equipment has not been defaced or removed.
WHO IS COVERED	This warranty is extended to the original purchaser and applies only to equipment purchased for use in the U.S.A.
COVERAGE PERIOD	 □ Warranty claims must be received in writing by BKI within one (1) year from date of installation or within one (1) year and three (3) months from data of shipment from the factory, whichever comes first. □ COB Models: One (1) Year limited parts and labor. □ COM Models: Two (2) Year limited parts and labor. COM convection ovens also have a two (2) year door warranty. □ CO1 Models: Two (2) Year limited parts and labor. Five (5) Year limited door warranty. □ Warranty period begins the date of dealer invoice to customer or ninety (90) days after shipment date from BKI, whichever comes first.
WARRANTY COVERAGE	This warranty covers on-site labor, parts and reasonable travel time and travel expenses of the authorized service representative up to (100) miles round trip and (2) hours travel time and performed during regular, weekday business hours.
EXCEPTIONS	Any exceptions must be pre-approved in advance and in writing by BKI. The extended door warranty on convection ovens years 3 through 5 is a parts only warranty and does not include labor, travel, mileage or any other charges.
EXCLUSIONS	 Negligence or acts of God, ☐ Thermostat calibrations after (30) days from equipment installation date, ☐ Air and gas adjustments, ☐ Light bulbs, ☐ Glass doors and door adjustments, ☐ Fuses, ☐ Adjustments to burner flames and cleaning of pilot burners, ☐ Tightening of screws or fasteners, ☐ Failures caused by erratic voltages or gas suppliers, ☐ Unauthorized repair by anyone other than a BKI Factory Authorized Service Center, ☐ Damage in shipment, ☐ Alteration, misuse or improper installation, ☐ Thermostats and safety valves with broken capillary tubes, ☐ Freight - other than normal UPS charges, ☐ Ordinary wear and tear, ☐ Failure to follow installation and/or operating instructions, ☐ Events beyond control of the company.
INSTALLATION	Leveling, as well as proper installation and check out of all new equipment - per appropriate installation and use materials – is the responsibility of the dealer or installer, not the manufacturer.
REPLACEMENT PARTS	BKI genuine Factory OEM parts receive a (90) day materials warranty effective from the date of installation by a BKI Factory Authorized Service Center.

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Introduction

Your **BKI** VGG is a computer controlled rotisserie oven. It utilizes a revolving mechanism and heating elements that ensure even product cooking. A touchscreen control and switches are provided to allow for quick setup and operation. Removable components allow for easy maintenance and cleaning.

The **BKI** name and trademark on this unit assures you of the finest in design and engineering -- that it has been built with care and dedication -- using the best materials available. Attention to the operating instructions regarding proper installation, operation, and maintenance will result in long lasting dependability to ensure the highest profitable return on your investment.

NOTICE

PLEASE READ THIS ENTIRE MANUAL BEFORE OPERATING THE UNIT. If you have any questions, please contact your BKI Distributor. If they are unable to answer your questions, phone the applicable BKI Technical Services Department:

BKI North America: (864) 963-3471 **BKI Europe**: (44) 0870 9904242

Safety Precautions

Always follow recommended safety precautions listed in this manual. Below is the safety alert symbol. When you see this symbol on your equipment, be alert to the potential for personal injury or property damage.



Safety Signs and Messages

The following Safety signs and messages are placed in this manual to provide instructions and identify specific areas where potential hazards exist and special precautions should be taken. Know and understand the meaning of these instructions, signs, and messages. Damage to the equipment, death or serious injury to you or other persons may result if these messages are not followed.

A DANGER

This message indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

AWARNING

This message indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

ACAUTION

This message indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This message is used when special information, instructions or identification are required relating to procedures, equipment, tools, capacities and other special data.

Specific Precautions



Equipotential Ground Plane

When a high current flows through a conductor, differences in potential appear between the conductor and nearby metallic surfaces near the appliance. As a result, sparks may be produced between the appliance and surrounding metal surfaces. These sparks could cause serious injury, damage, or fire.

BKI provides an Equipotential ground terminal for the connection of a bonding conductor after the installation of the appliance per IEC60417-1. This terminal is located on the drive side of the oven base and is marked with this symbol.



NOTICE

Full Disconnection for IEC / CE Regulations

In accordance with Local and/or National wiring codes, the installer must provide a means of full disconnection for overvoltage Category III conditions. An IEC approved cord and plug combination will meet this requirement.

Units not provided with a cord and plug do not meet this requirement. In accordance with Local and/or National wiring codes, the installer must provide the means of full disconnection.

Safe Work Practices



Wear Safe Clothing Appropriate To Your Job

Always wear your insulated mitts when handling hot oven parts or touch any hot metal surface. If you lose or damage your mitts, you can buy new ones at your local restaurant equipment supply store or from your local **BKI** Distributor.

Always wear non-skid shoes when working around the oven or any other equipment.

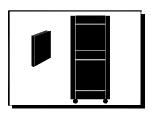
Never wear loose clothing such as neckties or scarves while operating this equipment. Keep loose hair tied back or in a hair net while operating this equipment.

Always wear appropriate personal protection equipment during the cleaning process to guard against possible injury.



WARNING - DANGEROUS VOLTAGE

This equipment uses high voltage. Serious injury can occur if you or any untrained or unauthorized person installs, services, or repairs this equipment. Always Use an Authorized Service agent to Service Your Equipment.



Keep this manual with the Equipment

This manual is an important part of your equipment. Always keep it near for easy access. If you need to replace this manual, phone the applicable BKI Technical Services Department:

BKI North America: (864) 963-3471 **BKI Europe**: (44) 0870 9904242



Protect Children

Keep children away from this equipment. Children may not understand that this equipment is dangerous for them and others.

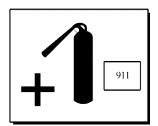
NEVER allow children to play near or operate your equipment.



Keep Safety Labels Clean and in Good Condition

Do not remove or cover any safety labels on your equipment. Keep all safety labels clean and in good condition. Replace any damaged or missing safety labels. Refer to the Safety Labels section for illustration and location of safety labels on this unit. If you need a new safety label, obtain the number of the specific label illustrated on page 5, then phone the applicable BKI Technical Services Department:

BKI North America: (864) 963-3471 **BKI Europe**: (44) 0870 9904242

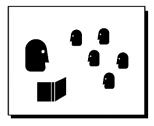


Be Prepared for Emergencies

Be prepared for fires, injuries, or other emergencies.

Keep a first aid kit and a fire extinguisher near the equipment. You must use a 40-pound Type BC fire extinguisher and keep it within 25 feet of your equipment.

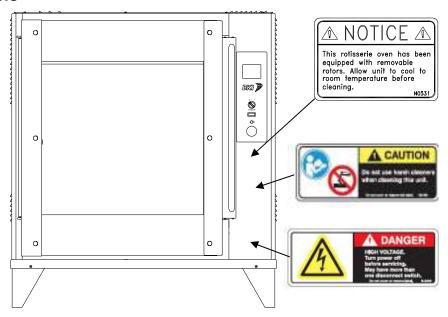
Keep emergency numbers for doctors, ambulance services, hospitals, and the fire department near your telephone.



Know your responsibilities as an Employer

- Make certain your employees know how to operate the equipment.
- Make certain your employees are aware of the safety precautions on the equipment and in this manual.
- Make certain that you have thoroughly trained your employees about operating the equipment safely.
- Make certain the equipment is in proper working condition. If you make unauthorized modifications to the equipment, you will reduce the function and safety of the equipment.

Safety Labels



Health and Sanitation Practices

BKI Rotisserie Ovens are manufactured to comply with health regulations and are tested and certified to NSF and FSA standards. You must operate the equipment properly, using only quality products and use meat thermometers to insure meats are thoroughly cooked.

Food Handling

- Wash hands thoroughly in warm, soapy water after handling raw poultry or meats.
- Clean and sanitize all utensils and surfaces that have been in contact with raw products. Clean and sanitize the meat forks or baskets between cooking.
- **Never** place cooked meats on the same surfaces used to prepare raw meats, unless the area has been thoroughly cleaned and sanitized.

Storage of Raw Meats

- Designate an area or shelf strictly for the storage of all raw meats to be used in the rotisserie.
- Raw product must always be stored at temperatures below 38° F. (3° C.).
- Never store or mix raw foods above cooked foods, as this is a health hazard. The drippings from raw foods contaminate cooked or processed foods.
- All chicken and chicken parts to be stored overnight must be thoroughly iced down and refrigerated.
- Never put raw foods into the oven with cooked or partially cooked foods, as this is a health hazard. The
 drippings from raw foods contaminate cooked foods.

Coding Cooked Foods

All products cooked during the day should be sold the same day.

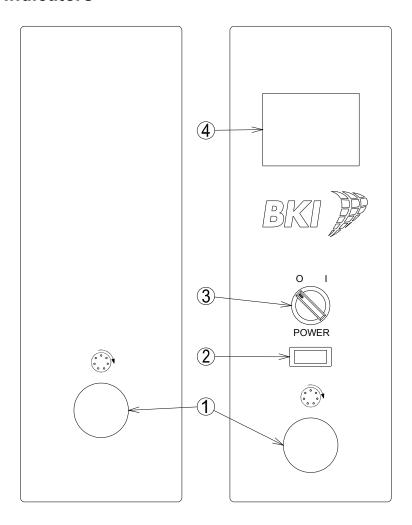
NOTE: It is not the intent of the rotisserie program to have unsold merchandise at the end of the cooking day. Follow your company's procedures for the handling of any leftover product.

Storage of Prepared Foods

- Cold foods should be kept at or below 38° F. (3° C.).
- Hot foods must be maintained to meet local health codes, usually a minimum 145° F. (63° C.).

Operation

Controls and Indicators



Hardware Controls

Item #	Description	Function
1	Rotor Switch	Depressing the switch allows the operator to "jog" the rotor position when the door is open. Releasing the switch stops the rotor.
2	Main Power Isolator Light	This light illuminates to indicate that power is being applied to the oven from the Main Power Isolator (Circuit Breaker).
3	Main Power Switch	Turns power to the entire unit on or off. When placed in the on position, the Touchscreen controller is powered, lights illuminate and the rotor motor engages (if both doors are closed). When placed in the off position, power is removed from the entire unit.
4	Color Touchscreen Controller	Used for operation and programming of the oven. A built-in beeper is used to indicate touchscreen presses and other oven functions. It has 15 programmable cooking recipes.

Configuring the CTS Oven Controller

Configuration Access

Touch and hold the lower right portion of the screen until the control chirps twice.



The area on the control screen is black. The red graphic in this diagrams indicates the area to touch and hold.

Enter your access code.

Touch [X] to exit and return to Main Recipe screen.



The default Supervisor access code is 1234. Use the default code the first time the Configuration is accessed.

The access code can be changed after initial access to configuration (recommended). Write the new access code below and keep this manual where only supervisors have access to it.

[Delete] clears the last character.

Access Code _____

Use the screen keypad to enter the access code then touch [ENTER].

Supervisor level configuration screen is displayed.

Touch [X] to exit and return to Main Recipe screen.



The supervisor has access to change Recipes, change the Access Code, Set the Clock, Import or Export recipes and configurations or view the control History.

Touch the desired function button and follow the configuration instructions below.

Recipe Editing

Touch and highlight the desired recipe.

Touch [EDIT].

Touch [X] to exit and return to Supervisor Access screen.



There are 15 programmable recipes in the control. Touch $[\blacktriangle]$ or $[\blacktriangledown]$ to scroll through the list.

Touch and highlight the recipe name in the selection window. Touch [EDIT].

Touch and highlight the desired Recipe Item.

Touch [EDIT].

Touch [X] to exit and return to Select Recipe screen.



Touch and highlight the Recipe Item to be edited in the selection window. Touch [EDIT].

Once all changes have been made you must touch [SAVE] to store the recipe revisions.

Recipe Editing (continued)

Edit Recipe Name.
Touch [SAVE].
Touch [X] to exit and return to Select Item screen.



Edit the Recipe Name using the alphanumeric keyboard. Recipe Names are limited to a maximum of 14 characters.

Touch [SAVE] to save the new Recipe Name and return to the Select Item screen.

[Clr] – Clears the editing box of all characters.

[Rst] – Restores the original recipe name.[Space] – Adds a space character at the end.

[Del] - Deletes the last character.

Edit Recipe Items.
Touch [SAVE].
Touch [X] to exit and return to Select Item screen.



All Recipe Items (Preheat, Cook and Hold) are edited in this screen. Touch [<<] and [>>] to move between the Recipe Items.

The value field active for editing has a red background. Touch the inactive field to make it active for editing.

The Preheat and Hold items only have a temperature value. The time field for these items is greyed out and not selectable.

Use the dial on the right of the screen or the

[+] and [-] buttons to change the value.

To turn the Cook Cycle 2, Cook Cycle 3 or
Hold segments Off, set the temperature value

below 150F.
Touch [SAVE] to save the new values before moving to the next Recipe Item.

Return to the Select Item screen.

Touch [SAVE] to save Recipe.

Touch [X] to exit and return to Select Recipe screen.



After Recipe editing is complete, touch [X] on the Recipe Item screen above to return to the Select Item screen.

You must touch [SAVE] to store the recipe revisions.

Touch and highlight another Recipe.
Touch [EDIT].

or or

Touch [X] to exit and return to Supervisor Access screen.



Touch and highlight another Recipe name in the selection window. Touch [EDIT].

or

Touch [X] to return to the Supervisor Access screen if you are done editing Recipes.

Changing Access Code

Supervisor level configuration screen is displayed.

Touch [X] to exit and return to Main Recipe screen.



Touch [Chg Code].

Enter new Access Code.

Touch [ENTER].
Touch [X] to exit and return to Supervisor Access screen.



[Delete] clears the last character. [Clear] clears all characters. Use the screen keypad to enter the new 4 digit Access Code.

Touch [ENTER].

Record the new Access Code in the area provided in the Configuration Access section of this manual.

Once the new Access Code is entered the old code will not provide configuration access.

Importing Recipe & Configuration Files

Supervisor level configuration screen is displayed.

Touch [X] to exit and return to Main Recipe screen.



Supervisor Access gives the ability to Import Recipe and Configuration files from a USB flash drive.

Touch [Import].

Insert USB Drive.
Touch [Read Recipes]
and/or [Read Config].
Touch [X] to exit and
return to Supervisor
Access screen.



Insert the USB flash drive into the USB port located on the control side of the oven. The message line will change to read "Drive Inserted" and the [Read Recipes] and [Read Config] buttons will become active.

Touch [Read Recipes] and/or [Read Config] to upload the files to the control.

Remove the USB drive when finished and the control will return to the Supervisor Access screen.

Exporting Recipe, Configuration and History Files

Supervisor level configuration screen is displayed.

Touch [X] to exit and return to Main Recipe screen.



Supervisor Access gives the ability to Export Recipe, Configuration and History files to a USB flash drive.

Touch [Export].

Exporting Recipe, Configuration and History Files (continued)

Supervisor level configuration screen is displayed.

Touch [X] to exit and return to Main Recipe screen.



Insert the USB flash drive into the USB port located on the control side of the oven. The message line will change to read "Drive Inserted" and the [Save Recipes], [Save Config] [Save History] buttons will become active.

Touch [Save Recipes], [Save Config] and/or [Save History] to download the files to the USB drive

Remove the USB drive when finished and the control will return to the Supervisor Access screen.

Setting the Clock

Supervisor level configuration screen is displayed.

Touch [X] to exit and return to Main Recipe screen.



The control has a real time clock that will maintain the current date and time for up to 7 days with no power. This information is used for the error and event history log.

Touch [Set Clock].

Touch value and change using [+] and [-] buttons.

Touch [SAVE] to save and return to Supervisor Access screen.



Touch and highlight the value below the item to be changed. Use the [+] and [-] buttons to change the item to the desired value.

To change the am/pm setting simply touch that value to toggle between am and pm. Touch [SAVE] to save the changes. The control will return to the Supervisor Access screen.

Viewing the Error and Event History File

Supervisor level configuration screen is displayed.

Touch [X] to exit and return to Main Recipe screen.



Supervisor Access gives the ability to view the controls History log. The log includes the total numbers of operating hours, the total number of cooking hours and all event and error messages.

Touch [History].

Controller History screen is displayed.
Touch [SAVE] to save and return to Supervisor Access screen.

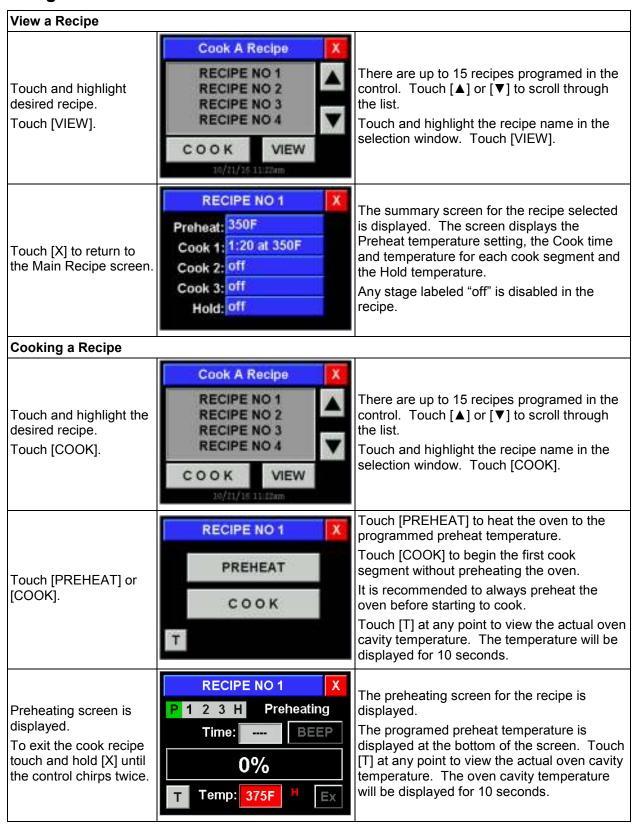


Total: the total number of hours the control has been turned on.

Cook: the total number of hours the control has been cooking (includes preheat).

Touch $[\blacktriangle]$ or $[\blacktriangledown]$ to scroll through the list of trackable events and errors. The date, time and a descriptive string are displayed for each event. A list of the errors and events follows in this manual.

Cooking with the CTS Oven Controller



Cooking a Recipe (continued)

LOAD OVEN screen is displayed.

To exit the cook recipe touch and hold [X] until the control chirps twice.



When the oven reaches the programed preheat temperature the LOAD OVEN screen is displayed.

The control will emit an audible alarm for 5 seconds and the screen background will alternate between green and blue until the oven is loaded or the large button is touched.

Load the oven.

Touch the large [START COOK] button to begin cooking.



After loading the oven (opening and closing the door once) the START COOK screen is displayed.

The screen background will alternate between green and blue until the large button is touched.

To beginning cooking, close the oven door and touch the large [START COOK] button.

Main cooking screen is displayed.

To exit the cook recipe touch and hold [X] until the control chirps twice.



The main cooking screen is displayed while the cook in in progress.

The Time displayed is the time remaining in the active cook segment. The progress bar shows the progress through the sum of all of the programed cook segment times.

The Temperature display is the programed temperature for the active cook segment. Touch [T] at any point to view the actual oven cavity temperature. The oven cavity temperature will be displayed for 10 seconds. Touching [Ex] will add the preset extra time (typically 5 minutes) to the active cook segment.

End of Cooking without Hold

On completion of the last cook segment the [BEEP] button will flash red and the control will emit a continuous audible alarm. To cancel the audible alarm.

To cancel the audible alarm, touch [BEEP].

If additional cooking is required, touch [Ex]. This will cook for the preset extra time (typically 5 minutes) at the temperature programed for the last cook segment.

If no additional cooking is required, remove all cooked product from the oven then touch and hold [X] until the control chirps and returns to the main recipe screen.

End of Cooking with Hold

On completion of the last cook segment the [BEEP] button will flash red and the control will emit a continuous audible alarm.

The control will automatically go into Hold and maintain the oven cavity at the programed temperature.

To cancel the audible alarm, touch [BEEP]. The control will stay in Hold.

Measure the internal temperature of the cooked product.

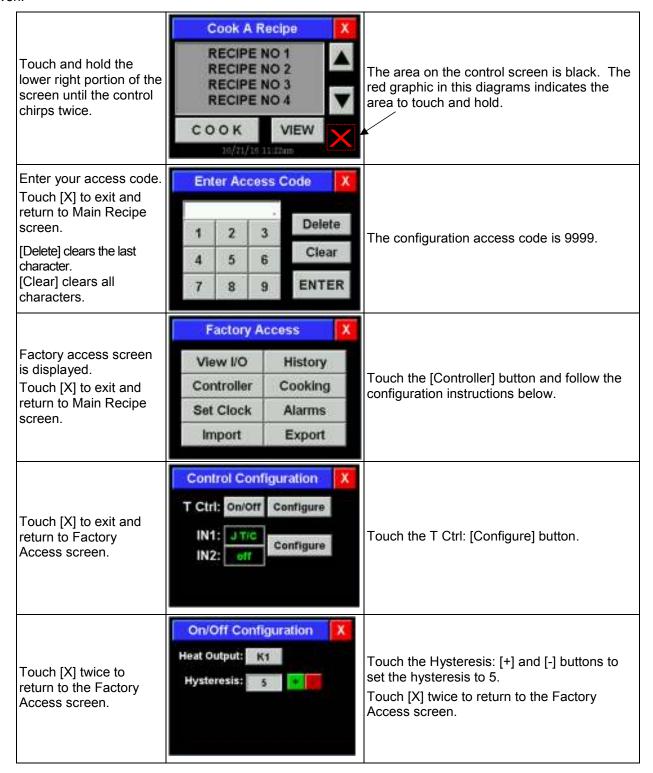
If additional cooking is required, touch [Ex]. This will cook for the preset extra time (typically 5 minutes) at the temperature programed for the last cook segment.

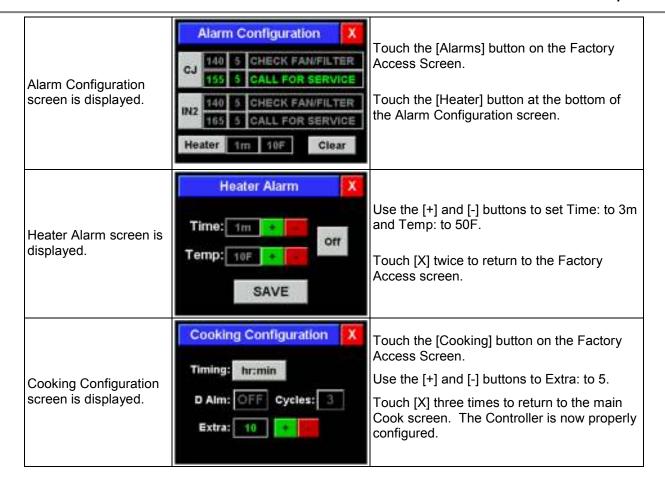
Once all cooked product has been removed from the oven, touch and hold [X] until the control chirps and returns to the main recipe screen.

End of Cooking

Configuring the CTS Controller for use in the VGG Oven

The Controller configuration must be verified as described below after installing a CP0065 Controller in the VGG oven.





Controller Errors, Warnings and Events

Errors

These events cause the controller to halt operation and display the fault in the System Error screen shown at right. The faults are not recoverable. The System Error screen does allow the controller to be rebooted in an attempt rectify the fault but this may not work.

An additional line of text will be displayed above "CALL FOR SERVICE" to provide more detailed information about the type of error. In addition, an error event will be recorded in the controller's history.

Here is a list of errors with their descriptive text in the System Error and History screens:



System Error text	History text	Error Description
TEMPERATURE PROBE ERROR	Probe Error	The temperature probe reading is out of range
		indicating a probe failure.
TOUCHSCREEN ERROR	Tch Scr Error	The touch screen is cracked or contaminated.
ERROR SAVING TO MEMORY	NVM-W Error	AN error was detected writing to the
STORAGE		controller's internal memory.
ERROR READING FROM	NVM-R Error	AN error was detected reading from the
MEMORY STORAGE		controller's internal memory.
GP FAULT:nnnnnn AT	GP Fault	A general protection fault has occurred when
ADDR:aaaaaa		reading or writing to an invalid memory address.

Warnings and Alarms

The CTS Rotisserie Oven Controller has multiple alarms to warn the operator in the case of certain problems within the oven. These alarms are informational only and will not stop the controller from functioning. A warning message formatted as shown at the right will flash on the screen every 30 seconds.

BOARD TEMP WARNING Check Fan/Filter

The alarms can be cleared using in [Clr Alarm] on the Supervisor Access screen. Refer to the *Configuring the CTS Oven Controller* section of this manual. If the alarms conditions are still present after clearing the alarms, the alarm will reappear.

Here is a list of the Warning messages and a description of the potential cause

OVEN NOT HEATING CALL FOR SERVICE

If the oven does not begin to heat when Preheat is initiated this warning message is displayed. At this point the gas spark ignition controller has locked out. Turn the power to the oven off, then back on to reset the gas spark ignition controller.

If the warning message is displayed again after the gas spark ignition controller has been reset call the authorized BKI service agency to service the oven.

CTRL TEMP WARNING CHECK COOLING FAN

This warning message indicates the temperature in the oven's control compartment has risen to a temperature that would indicate a problem with the cooling fan on the back of the control side of the oven. Verify that the fan's grill is not blocked and that the fan is operating when the oven is on.

If the fan is not operating, call the authorized BKI service agency to service the oven.

CTRL TEMP WARNING CALL FOR SERVICE

This message is displayed when the temperature in the oven's control compartment rises to a temperature that will harm the oven's components.

Use of the oven should be discontinued at the completion of the current cooking recipe. Call the authorized BKI service agency to service the oven.

Events

Here is a list of controller system events which cause an entry in the History log:

Factory Rst	Factory Reset is performed as the controller is being tested at the factory. This resets the recipes and controller configuration to defaults and performs a touchscreen calibration.
Tch Scr Cal	Touch screen calibration during the factory reset or performed by the user.
Config Chg	This indicates that the controller configuration has been changed which includes Supervisory or Factory level changes but not PID configuration changes.
PID Cfg Chg	The PID configuration was changed.
Access Err	An invalid password was entered.
Access Chg	The Supervisor password was changed.
Recipe Imp	The recipes were imported from a USB flash drive.
Recipe Exp	The recipes were exported to a USB flash drive.
Config Import	The controller configuration was imported from a USB flash drive.
Config Export	The controller configuration was exported to a USB flash drive.
USB Error	The controller was unable to create or find the proper file on the flash drive.
CJ Warning	The lower level cold junction time and temperature alarm was exceeded.
CJ Alarm	The higher level cold junction time and temperature alarm was exceeded.
IN2 Warning	The lower level IN2 probe time and temperature alarm was exceeded.
IN2 Alarm	The higher level IN2 probe time and temperature alarm was exceeded.
Heat Alarm	The oven temperature did not rise fast enough when the preheat was started.
Alarm Chg	The warning / alarming configuration was changed.

Accessory Use

Standard Meat forks

The standard meat forks are ideal for chicken and poultry. Use the following procedure to prepare the bird for loading in the oven.

- 1. Fold wings to back, place on back with cavity away from you.
- 2. Run pointed ends of meat fork through sides of chicken under wings and through thighs (breast up and legs down). Ensure that legs of adjacent birds **DO NOT PRESS TIGHTLY TOGETHER**, this will cause the area of contact to be under-cooked!
- 3. Load the meat-forks by holding the meat-fork with the handle to the right-hand side, facing up.
- 4. Open the oven door.
- 5. Press Rotor Switch to rotate rotor to open position if required.
- 6. Place the pointed ends of the meat-fork into the left-hand disc holes.
- 7. From the control side, push the meat-fork into the disc to allow the right-hand (handle end) pins locate into the right-hand disc.
- 8. Be sure to adjust the meat-fork position so that the handle end locates firmly in the spit groove.

Baskets

Baskets can be used for large chickens or other meats. After loading with product, simply locate pins in the holes on the discs.

Installation



Serious injury, equipment damage or death could result if attempting to install this oven yourself. Ensure that an authorized **BKI** service agent install the oven.

Unpacking and Handling

It is the owners' responsibility to file all freight claims with the delivering truck line. Inspect all cartons and crates for damage as soon as they arrive. If damage to cartons or crates is found, or if a shortage is found, note this on the bill of lading (all copies) prior to signing.

If damage is found when the equipment is opened, immediately call the delivering truck line and follow up the call with a written report indicating concealed damage to your shipment. Ask for an immediate inspection of your concealed damage item. Packaging material **MUST** be retained to show the inspector from the truck line.

Remove all packing from the interior and exterior of the oven.

Location and Clearance

The oven must be mounted on a level surface capable of supporting the fully loaded oven. Refer to Chart 1 for oven weight.

Adequate clearance must be provided around the oven for safety, proper operation and ventilation. Refer to Chart 1 for required minimum clearances. Note that these are minimum clearances. If the oven is to be permanently mounted near other immovable objects additional clearance must be provided for connection and service of the oven on both sides.

All ventilation slots must be kept free from obstruction.

Extraction

Extraction is not a specific requirement for this type of appliance. Certain conditions, e.g./ installation in a confined space, temperature controlled environment, continuous use or high volume production cooking may require the need for extra ventilation or extraction. Consult your local ventilation/extraction air conditioning company or contact the technical services department at BKI.

Wiring



Electrocution, equipment failure or property damage could result if an unlicensed electrician performs the electrical installation. Ensure that a licensed electrician perform the electrical installation in accordance with applicable local and national codes.

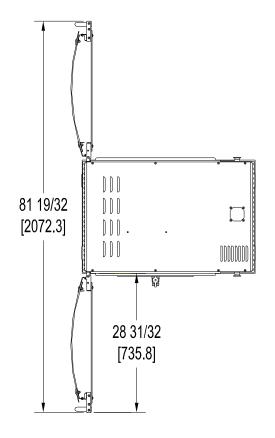
General Guidelines

- In the absence of local codes refer to the latest edition of one of the following:
 - National Electrical Code, ANSI/NFPA 70-20XX (USA) which can be obtained from:

The National Fire Protection Association Batterymarch Park Quincy, MA 02269

- I.E.E. Wiring Regulations (Europe)
- Verify that the power supply conforms to the electrical rating listed on the oven data plate.
- Ensure that the appliance is grounded (earthed).

Chart 1. Location and Clearance



Electrical Specifications (North America)

1Ph + Gnd, 60Hz

Volts	Amps	KW	Breaker		
208	29.3	6.1	40		
220	23.5	5.2	30		
240	27.8	6.7	40		

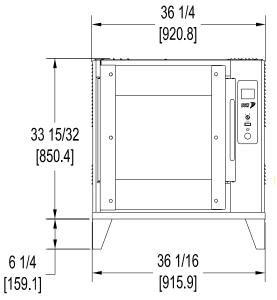
Electrical Specifications (North America)

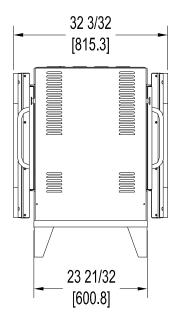
3Ph + Gnd, 60Hz

Volts	Amps	KW	Breaker
208	17.2	6.1	25
220	13.8	5.2	20
240	16.3	6.7	25

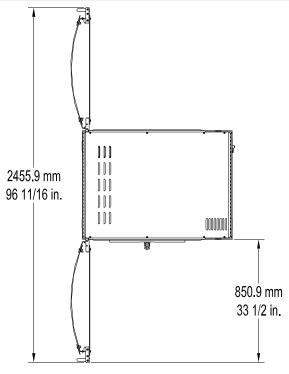
Electrical Specifications (Europe) 230/400 Volts, 3Ph + Gnd + E, 50Hz

	Amps	Watts	Breaker
L1	9.3	2182	10
L2	9.3	2130	
L3	9.2	2120	





		Shipping	Minimum Clearance		
Model	Height	Weight	Combustible Surface	Non-Combustible Surface	
	1009.5 mm	195 KG	152.5 mm	152.5 mm	
VGG-5	39.7 in.	430 lb.	6 in.	6 in.	



Electrical Specifications (North America)

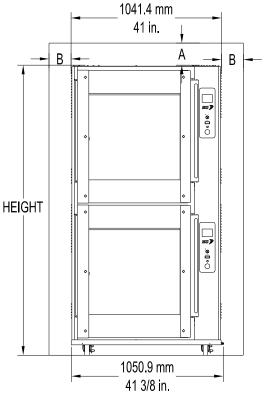
3Ph + Gnd, 60Hz

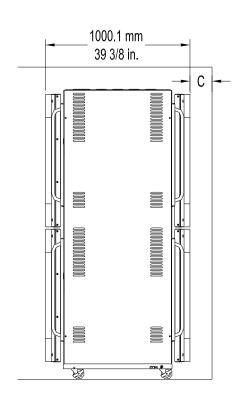
Volts	Amps	KW	Breaker	
208	29.7*	10.6*	40*	
220	26.4*	9.9*	35*	
240	28.7*	11.8*	40*	

* Ratings per oven cavity. VGG-16 requires a separate power supply for each oven cavity.

Electrical Specifications (Europe) 230/400 Volts, 3Ph + Gnd + E, 50Hz

Model	Amps	KW	Breaker	
VGG-8	16.3	10.9	25	
VGG-16	32.2	21.8	32	





			Minimum Clearance					
		Shipping	Combustible Surface		Non-Co	ombustible S	urface	
Model	Height	Weight	Α	В	C	Α	В	С
VGG-8	1003.3 mm	259 KG	152.5 mm	152.5 mm	152.5 mm	51.0 mm	51.0 mm	51.0 mm
VGG-6	39.5 in.	570 lb.	6 in.	6 in.	6 in.	2 in.	2 in.	2 in.
VGG-16	2008.2 mm	453 KG	152.5 mm	152.5 mm	152.5 mm	51.0 mm	51.0 mm	51.0 mm
VGG-10	79 1/16 in.	1000 lb.	6 in.	6 in.	6 in.	2 in.	2 in.	2 in.

Guidelines for European Appliances

Note: - A method of disconnection from the main supply having a contact separation of least 3mm in all poles must be incorporated in the fixed wiring.

- It is recommended that an **R.C.D.** with a 30ma trip and contact rating to suit the appliance current be installed adjacent to the appliance.
- Type C/ 3 circuit breakers or appropriate rated fuses are recommended for installation at the supply end.

Note: - surge currents are present when this appliance is switched on from cold.

Industrial plugs and sockets must comply with BS 4343/EN60309 (IEC309.2/CEE17).

Supply Cable Connection

- It is recommended that the power supply cable shall be an oil resistance sheathed flexible cable to BS 6007 (code designation HO7 RN-F).
- It is required that the power supply cable connection to the appliance terminal block, the earth conductor is to be made at least 50mm longer than the length of the live (L) and neutral (N) conductors so that if the supply cable is strained the earth conductor is the last to become disconnected.
- To gain access to the control panel and mains block connection, remove the 4-side panel securing screws on the drive side of the oven.
- The mains block is sited toward the bottom right hand side of the control box. Cable entry is provided through the base of the oven.
- Refer to the mains wiring diagram for correct connection.

Operating

Please read the operating instructions thoroughly and ensure all packaging has been removed before switching main power 'On'.

IMPORTANT: Ensure that whoever is operating this appliance is fully conversant with it's working and is made aware of the dangers of incorrect operation.

Safety Cut-Out

For added safety all VGG ovens have a built in thermal cut-out to protect against over-heating through component failure or incorrect use. If for any reason the thermal cut-out operates, the oven will automatically shut down and should be switched 'Off', disconnected from the mains and allowed to cool.

NOTE: - The thermal cut-out will not re-set automatically.

The oven must not be re-used until a qualified electrician or BKI service agent has checked it.

Maintenance



Failure to comply with the maintenance below could result in a serious accident or equipment damage.



Failure to remove power from this unit before performing maintenance may cause severe electrical shock. This unit may have more than one disconnect switch.

Scheduled Maintenance

Use the following table to help manage scheduled maintenance activities.

Frequency	Performed By	Part	Activity
Daily	User	Entire Oven	Perform oven-cleaning procedure.
6 months	User	Fan Blade	Remove and replace.

Oven Cleaning (Daily)

Cleaning is not only necessary for sanitary reasons, but will increase sales appeal and maximize operating efficiency.



Failure to remove power from this unit may cause severe electrical shock. This unit may have more than one disconnect switch.



Always wear appropriate personal protection equipment (googles, rubber glove & long sleeved garments) when cleaning the oven to guard against possible injury.

Using abrasive cleaners will damage the cabinet finish. Use only a mild soap and water solution or approved cleaner.

DO NOT USE OVEN CLEANER on this machine. Caustic cleaners will cause damage to the machine.

NEVER USE A WATER HOSE OR A STEAM CLEANER TO WASH THIS UNIT.

Excess water can get into the interior of the cabinet and cause damage.

BKI Approved Cleaning Solutions

ECOLAB Greasestrip Plus

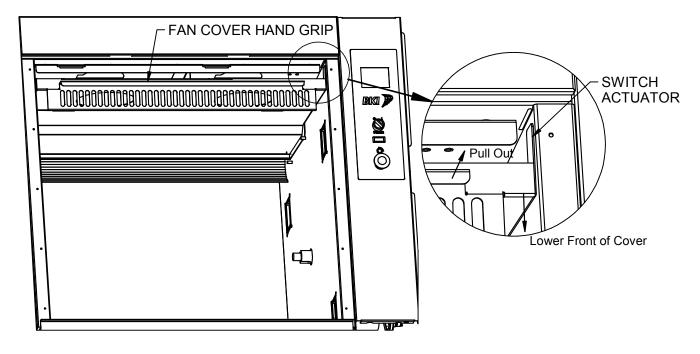
Proctor & Gamble DCT Oven Cleaner

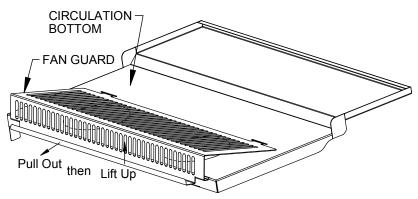
- J. Wilson Marketing Combi Brite Cleaner
- 1. Turn the Main Power Switch off and disconnect from the Main Power Isolator (Circuit Breaker).
- 2. Allow oven to cool below 50°C (120°F).
- 3. Empty the grease drawer using the drain valve or fat pump.
- 4. Remove all food products from the unit.
- 5. Remove V-spits, meat forks, hanging baskets and drip trays from the unit and place them in a large sink to soak in hot cleaning solution. Clean the components with warm water, a sponge and **BKI** Cleaner. Wipe dry with a clean cloth.

- 6. Remove the Rotor System as described below:
 - a. Lift the washer from the groove and slide down the shaft.
 - b. Slide each rotor cup down the shaft.
 - c. Remove the inner shaft.

NOTE: The welded bead in the center of shaft denotes the shaft removal direction.

- d. Remove rotors.
- 7. Place the Rotor System components in a large sink to soak in hot cleaning solution. Clean the components with warm water, a sponge and **BKI** Cleaner. Wipe dry with a clean cloth.
- 8. Remove the Fan Cover as described below:
 - a. Grasp the Fan Cover Hand Grip with both hands. Lift up on the Fan Cover then pull out approximately 1/2" [12 mm].
 - b. Lower the front of the Fan Cover until the Switch Actuator clears slot in the top of the oven cavity (see detail view).
 - c. Support the back of the Fan Cover with one hand and pull the Fan Cover out of the support pins in the oven cavity sides with the other hand.
 - d. Remove the Fan Guard from the Circulation Bottom by pulling the Fan Guard handle out then up.





9. Place the Fan Guard and Circulation Bottom in a large sink to soak in hot cleaning solution. Clean the components with warm water, a sponge and *BKI* Cleaner. Wipe dry with a clean cloth.

- 10. Carefully clean the fan blades using a scrub brush and hot cleaning solution. Do not bend or disfigure the fan blades.
- 11. Clean the top of oven. Carefully clean around fan and surrounding areas.
- 12. Replace the Fan Guard onto the Circulation Bottom. Then install this Fan Cover assembly back into the oven cavity.
- 13. Clean grease drawer and tray area with hot soapy water.
- 14. Replace the grease drawer.
- 15. Clean the outside and inside of the rotisserie oven with warm water, a sponge and an approved cleaner which is authorized for use on food surface areas.
- 16. Reassemble the rotor system in the oven.

Troubleshooting

Problem	Cause	Possible Solution
Unit will not turn on. Main Power Isolator Light is not lit.	Unit power plug disconnected (where applicable).	Plug unit into mating receptacle.
	Problem with building power supply	Check circuit breaker at building power panel. If problem persists, contact BKI service agent for corrective action.
Unit will not turn on. Main Power Isolator Light is lit.	Blown Fuse	Contact BKI service agent for corrective action.
	Safety cut out thermostat tripped or defective.	Contact BKI service agent for corrective action.
	Defective contactor.	Contact BKI service agent for corrective action.
Rotor not rotating.	Door not completely closed.	Check that both doors are completely closed
	Defective door switch.	Contact BKI service agent for corrective action.
	Blown Fuse	Contact BKI service agent for corrective action.
	Defective contactor.	Contact BKI service agent for corrective action.
	Defective motor or capacitor.	Contact BKI service agent for corrective action.
Rotor will not rotate while depressing Rotor switch with door open but operates with doors closed.	Defective rotor switch.	Contact BKI service agent for corrective action.
Oven does not heat at all.	Improper program settings.	Check program settings.
	Improper parameter settings.	Contact BKI service agent for corrective action.
	Fan cover & circulation bottom not installed or improperly installed.	Check that components are properly installed.
	Fan cover switch defective.	Contact BKI service agent for corrective action.
	Defective controller or contactor.	Contact BKI service agent for corrective action.
	Heating elements not functioning.	Contact BKI service agent for corrective action.
Oven heats up slowly	Improper line voltage.	Contact BKI service agent for corrective action.

Rotisserie Oven

Problem	Cause	Possible Solution
	Defective blower fan motor.	Contact BKI service agent for corrective action.
	Defective heating element.	Contact BKI service agent for corrective action.
Control displays "999" under the temperature display.	Temperature probe connection loose or defective probe.	Contact BKI service agent for corrective action.
Cavity lights do not illuminate when unit is on.	Blown fuse.	Contact BKI service agent for corrective action.
Individual cavity lamp does not illuminate.	Defective bulb.	Contact BKI service agent for corrective action.

Rotisserie Oven

Parts List

Use the information in this section to identify parts. To order parts, call your local *BKI* sales and service representative. Before calling, please note the serial number on the rating tag affixed to the unit.

Description	Figure #	Table #
VGG	Figure 1	Table 1
BASE PLATE	Figure 2	Table 2
CONTROL PANEL	Figure 3	Table 3
CONTROL PLATE	Figure 5	Table 5
DRIPPING DRAWER W/DRAIN	Figure 5	Table 5
JACKSHAFT & DRIVE	Figure 6	Table 6
INNER DOOR	Figure 7	Table 7
OUTER DOOR (FLAT)	Figure 8	Table 8
OUTER DOOR (LOWER & UPPER)	Figure 9	Table 9
DRIVE ROTOR	Figure 10	Table 10
PASSIVE ROTOR	Figure 11	Table 11
ROTOR SHAFT WELDMENT	Figure 12	Table 12

Figure 1. VGG

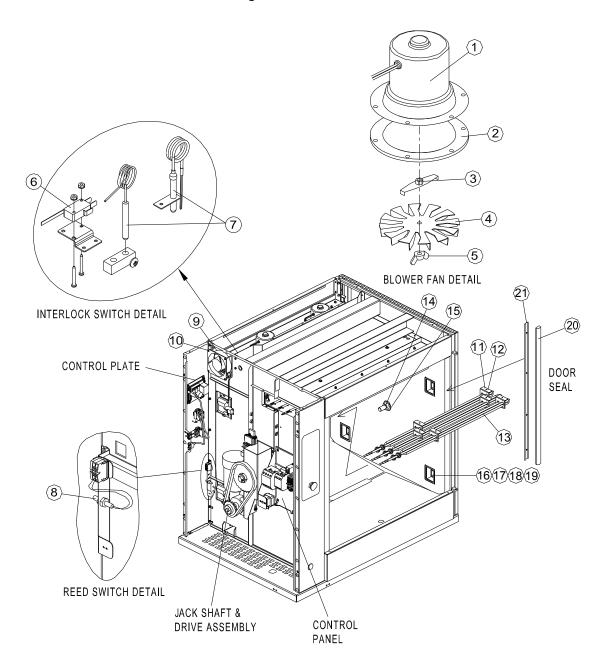


Table 1. VGG Parts

ITEM#	PART #	QTY	DESCRIPTION
1	M0101		BLOWER MOTOR, 208-240 V 50/60 HZ
2	G0320	4 ()(00 5)	GASKET, BLOWER MOTOR
3	WB55182700	1 (VGG-5)	RETAINER, FAN BLADE
4	FN0036	or 2 (VGG-8)	FAN BLADE
5	NUT292	2 (VGG-6)	NUT, 1/4"-20 LH THREAD WING
	AN55185000		BLOWER FAN ASSEMBLY (Included one each of Items 1-5)
6	S0355	1	MICRO SWITCH
7	T0007	1	TEMPERATURE PROBE
	replaced by		
	T0185		TEMPERATURE PROBE with MOUNT
8	S0363	2	MAGNETIC REED SWITCH
9	FN0012	1	COOLING FAN, 230 V
10	SCR315	4	SCREW, #6-32 x 2"
11	B0466	6	UPPER ELEMENT HOLDER
12	B0467	6	LOWER ELEMENT HOLDER
13	(VGG-5)		
	C0325	3	HEATING ELEMENT, 19000 W 208 V
	or		or
	C0327		HEATING ELEMENT, 1900 W 220-240 V
	(VGG-8)		
	C0321		HEATING ELEMENT, 3400 W 208 V
	or		or
	C0322		HEATING ELEMENT, 3400 W 220-240 V
14	SH0111	1	PASSIVE SHAFT
15	F0398	1	GROMMET, 1 1/4" SILICONE
16	LI033UK	8	LAMPHOLDER BODY
17	LI034UK	8	GASKET, LENS
18	LI035UK	8	FRAME, LENS
19	LI038UK	8	LENS, LAMPHOLDER
	LI037UK	8	REPLACEMENT BULB, 25 W 240 V
20	G0099	5 ft.	GASKET, DOOR SEAL (per door)
21	VGG-5	2	MOUNTING RAIL. DOOR SEAL
	MB55175600		
	VGG-8		
	MB55156700		

Figure 2. BASE PLATE

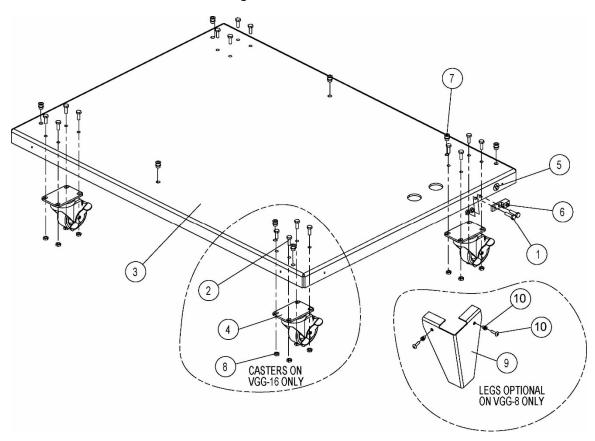


Table 2. BASE PLATE Parts

ITEM#	PART #	QTY	DESCRIPTION
1	SCR060	2	SCREW, 1/4-20 X 1 HEX CAP
2	SCR059	16	SCREW, 1/4-20 X 3/4 HEX CAP
3	(VGG-5)		
	FB55138403	1	BASE PLATE, SSTL (VGG5)
	(VGG-8)		
	FB55121810		BASE PLATE, MOBILE (VGG-16)
	or		or
	FB55121903		BASE PLATE, SSTL (VGG-8)
4	C0415	4	CASTER, 3"SWIVEL W/BREAK
5	N0543	1	DECAL, EQUIPOTENTIAL GROUND
6	F0191	1	GROUND LUG, TWO HOLE STREIGHT
7	F0082	8	THREAD INSERT 1/4-20 STEEL
8	WSH248	18	WASHERED LOCKNUT, 1/4-20 ZINC
9	FB45475003	4	LEG, BASE
10	F0083	8	THREADED INSERT,#10-32 (.0813)
11	SCR383	8	#10-32 x 1/2" SCREW

Figure 3. CONTROL PANEL

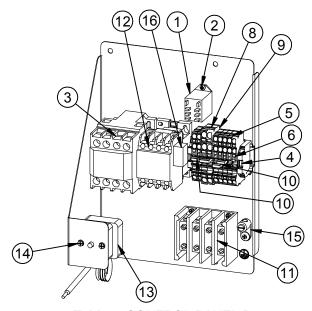


Table 3. CONTROL PANEL Parts

Item	Part No.	Qty	Description
	WH0143	1	WIRING, CONTROL PLATE
1	R0171	1	RELAY CONTROL SPDT 230V
2	SCR444	2	SCREW 6x038 PHIL RND HD
3	R0172	1	RELAY 4P, 40A, 220V (R0172)
4	TB0109	2	TERM BLK END STOP (TB0109)
5	TB0100	7	TERM BLK SEC 3x10AWG
6	TB0102	1	TERM BLK END 3x10AWG
7	TB0106	3	TERM BLK JUMPER 2x10AWG
8	TB0003	2	TERM BLK SEC 3x8AWG
9	TB0004	1	TERM BLK END 3x8AWG
10	TB0121	1	TERM BLK JUMPER 2x8AWG
11	TB0125	1	TERM BLK 4x2AWG SCREW
12	R0127	1	RELAY 4P, 25A, 220V (R0127)
12	R0140	1	RC SUPPRESSOR
13	TM015UK	1	THERMOSTAT 3P MAN RESET
14	SCR451	2	SCREW M4x5 PHIL PAN HD
15	F0111	1	GROUND TERMINAL SINGLE
16	R0140	1	RELAY RC FILTER (R0140)

Figure 4. CONTROL PLATES (CP0065)

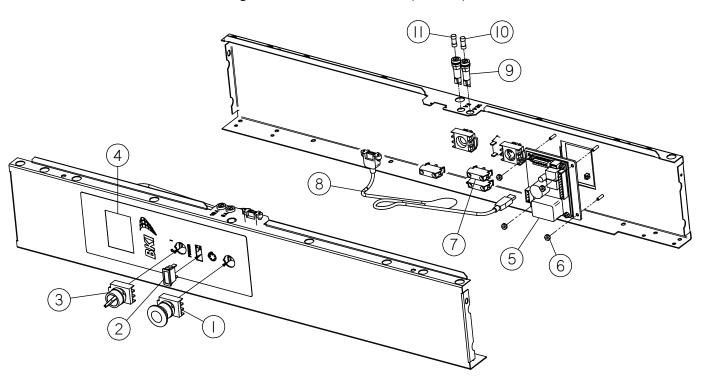


Table 4. CONTROL PLATES (CP0065) Parts

ITEM #	PART #	QTY	DESCRIPTION
1	S0309	1	PB OPERATOR, MUSHROOM HEAD
2	LI016UK	1	PILOT LIGHT, AMBER - 250V
3	S0304	1	SWITCH OPERATOR, 2 POSITION
4	N0682	1	DECAL, COLOR TOUCH SCREEN
	N0541	1	DECAL, JOG ONLY (opposite side)
5	AN5511990S	1	CONTROLLER, CTS for VGG
6	NUT276	4	NUT, #8-32 KEPS
7	S0307	3	CONTACT BLOCK, 1 N.O.
8	1531810	1	USB CABLE
9	FU004UK	2	FUSEHOLDER - 5 x 20 mm
10	FU010UK	1	FUSE, 1/2 A - 5 x 20 mm
11	F0394	1	FUSE, 8 A - 5 x 20 mm
12	WH0023 *	1	HARNESS, CONTROL PLATE

^{* -} not shown

Figure 5. DRIPPING DRAWER W/DRAIN

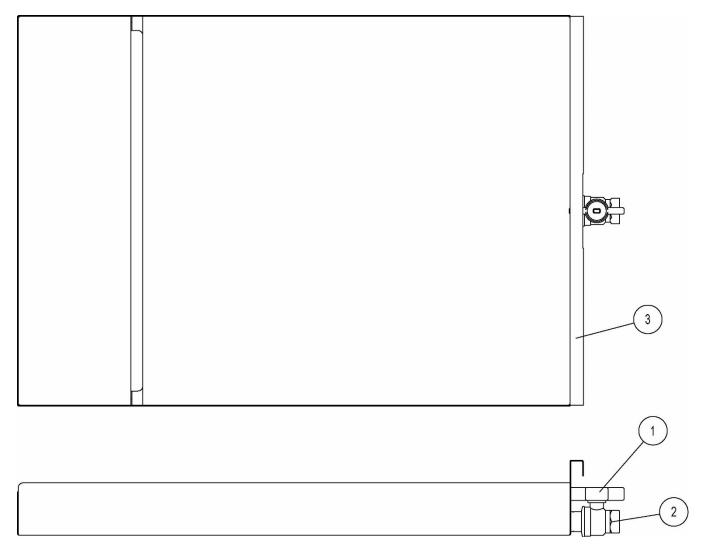


Table 5. DRIPPING DRAWER Parts

ITEM#	PART#	QTY	DESCRIPTION
1	V0020H	1	HANDLE FOR V0020 BALL VALVE
2	V0020	1	VALVE, BALL 3/4" FULL PORT
3	WB55164500	1	DRIPPING DRAWER W/ DRAIN,VGG -8
	WB55164400		DRIPPING DRAWER W/O DRAIN, VGG-8
	WB55183400		DRIPPING DRAWER w/ DRAIN for LIFT-OUT DRAWER TRAY
	WB55142200		DRIPPING DRAWER W/ DRAIN,VGG-5
	WB55142100		DRIPPING DRAWER W/O DRAIN, VGG-5

Figure 6. JACKSHAFT & DRIVE (AB55163900)

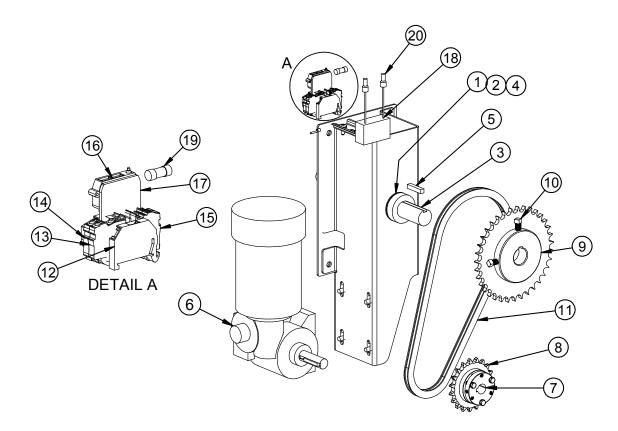


Table 6. JACKSHAFT & DRIVE (AB55163900) Parts

Item	Part No.	Qty	Description
1	B0239	2	FLR JACKSHAFT BEARING
2	WSH277	2	FLR JACKSHAFT BEARING THRUST
3	SH0110	1	VGG JACKSHAFT ROTOR SHAFT
4	FT0424	1	COLLAR SHAFT 1in (FT0424)
5	KSA091	1	KEY 025 SQ x 125 (KSA091)
6	M0087	1	GEARMOTOR, 230V
6	M0086	1	GEARMOTOR, 208V
7	S0706	1	SPROCKET QD Bushing 63JA (S0706)
8	S0705	1	SPROCKET 40JA19 QD Bore (S0705)
9	S0703	1	SPROCKET 40B35 100 BORE (S0703)
10	SCR496	2	SCREW 31-18x150 SQ HD SET (SCR496)
11	CH0013	1	FLR JACKSHAFT CHAIN 40x60 PITCHES
12	TB0109	2	TERM BLK END STOP (TB0109)
13	TB0101	1	TERM BLK SEC 3x10AWG GND (TB0101)
14	TB0100	1	TERM BLK SEC 3x10AWG (TB0100)
15	TB0102	1	TERM BLK END 3x10AWG (TB0102)
16	TB0107	1	TERM BLK SEC 5x20 FUSED (TB0107)
17	TB0108	1	TERM BLK END FUSED (TB0108)
18	CP0103	1	CAPACITOR, 208V GEARMOTOR
18	CP0104	1	CAPACITOR, 230V GEARMOTOR
19	FU019UK	1	FUSE 5x20mm 2A (FU019UK)
20	F0403	1	TERMINAL WIRE PIN 14-16AWG (F0403)

17 20 16 17 19 19 13 14 15 23

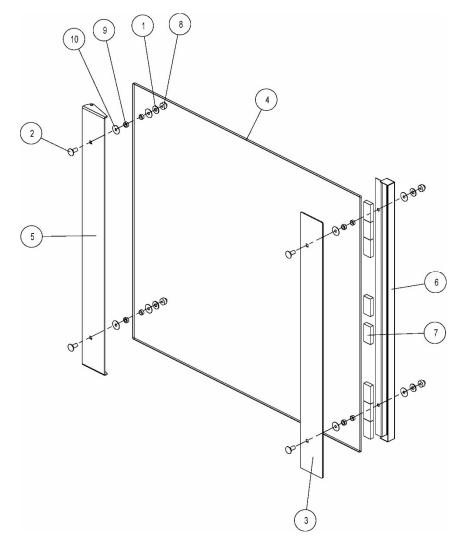
Figure 7. INNER DOOR

COMPLETE INNER DOOR ASSEMBLIES VGG-8 AB55118200 (replaces AB55157100) VGG-5 AB55176500 Door assemblies DO NOT include the Handle or Handle Cover.

Table 7. INNER DOOR Parts

Item	Part No.	Qty	Description	
1	GL074UK	1	VGG-8 INNER DOOR GLASS	
1	GL0348	1	VGG-5 INNER DOOR GLASS	
2	WB55117800	1	VGG-8 INNER DOOR HINGE	
2	WB55140000	1	VGG-5 INNER DOOR HINGE	
3	FB5517903	1	VGG-8 INNER DOOR HANDLE BRKT	
3	FB55140102	1	VGG-5 INNER DOOR HANDLE BRKT	
4	F0139	11	INSERT 8-32 HEX PLATED (F0139)	
5	FB55116303	2	VGG8 INNER DOOR STRETCHER	
6	BLT264	8	BOLT 10-24x050 CARRIAGE SS (BLT264)	
7	NUT286	8	NUT 10-24 KEPS ZINC (NUT286)	
8	FB55155303	1	VGG8 INNER DOOR MAGNET MNT	
9	MC0005	8	MAGNET 0.88 x 1.88 CERAMIC	
11	SP0044	2	VGG-8 INNER DOOR SPACER STRIP	
11	SP0045	2	VGG-5 INNER DOOR SPACER STRIP	
12	BU020UK	4	VGG INNER DOOR GLASS BUSHING	
13	SCR418	4	SCREW 25-20x100 SLTD TR HD (SCR418)	
14	WSH266	4	WASHER 25 FLAT SS SAE (WSH266)	
15	WSH248	4	NUT 25-20 KEPS ZINC (WSH248)	
16	FB55118051	1	VGG-8 INNER DOOR HINGE COVER	
16	FB55140351	1	VGG-5 INNER DOOR HINGE COVER	
17	SCR007	2	SCREW 8x075 PHIL TR HD (SCR007)	
18	FB55118151	1	VGG-8 INNER DOOR HANDLE COVER	
18	FB55153751	1	VGG-5 INNER DOOR HANDLE COVER	
19	FA55153002	2	VGG8 INNER DOOR HANDLE WASHER	
20	WSH044	2	WASHER 25 LOCK SPLIT ZINC (WSH044)	
21	SCR060	2	SCREW 25-20x100 HEX HD ZINC (SCR060)	
22	SCR439	11	SCREW 8-32x050 PHIL HD BLK (SCR439)	
23	H0209	1	VGG-8 INNER DOOR HANDLE	
23	H0131	1	VGG-5 INNER DOOR HANDLE	

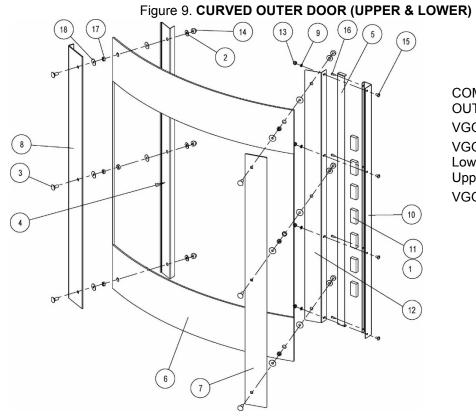
Figure 8. OUTER DOOR (FLAT)



COMPLETE FLAT OUTER DOOR ASSEMBLIES VGG-8 AB55131600 VGG-5 AB55148200

Table 8. OUTER DOOR (FLAT) Parts

ITEM #	PART#	QTY	DESCRIPTION
1	WSH266	4	WASHER, 1/4" FLAT S/S
2	BLT257	4	BOLT, 1/4-20 X 5/8 CARRIAGE
3	FB55148103 FB55131403	1	LATCH - FLAT DOOR, VGG-5 LATCH - FLAT DOOR, VGG-8
4	GL0348 GL074UK	1	GLASS - INNER DOOR, VGG-5 GLASS - INNER DOOR, VGG-8
5	FB55147903 FB55131503	1	HINGE - FLAT DOOR, VGG-5 HINGE - FLAT DOOR, VGG-8
6	FB55148003 FB55131303	1	MAGNET MOUNT - FLAT DOOR, VGG -5 MAGNET MOUNT - FLAT DOOR, VGG-8
7	MC0005	8	MAGNET, 1 7/8 X 7/8
8	NUT097	4	NUT, 1/4-20 SS 18-8 CAP
9	SP0031	4	SPACER, PTFE-DOOR GLASS
10	WSH268	8	WASHER, PTFE VG

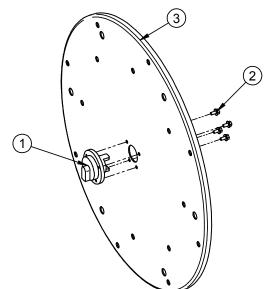


COMPLETE CURVED OUTER DOOR ASSEMBLIES VGG-8 AB55126600 VGG-16 Lower Oven AB55126600 Upper Oven AB55126700 VGG-5 AB55141200

Table 9. CURVED OUTER DOOR (UPPER & LOWER) Parts

	Table 9. CURVED OUTER DOOR (UPPER & LOWER) Parts				
ITEM #	PART #	QTY	DESCRIPTION		
1	TP0037	1 ft.	TAPE, 7/8 DBL SIDE 3M6381 WHITE		
2	WSH266	6	WASHER, 1/4" FLAT S/S		
3	BLT257	6	BOLT, 1/4-20 X 5/8 CARRIAGE		
4	FB55140703 FB45443403	1	BUMPER BRKT - OUTER DOOR, VGG-5 BUMPER BRKT - OUTER DOOR, VGG-8		
5	FB55141103 FB45443503	1	COVER – MAGNET, VGG-5 COVER – MAGNET, VGG-8		
6	GL0349M GL0300M	1	GLASS - OUTER DOOR, VGG-5 GLASS - OUTER DOOR, VGG-8		
7	FB55140803 FB45443203	1	LATCH PLATE - OUTER DOOR, VGG-5 LATCH PLATE - OUTER DOOR, VGG-8		
8	FB55140503 FB55126303 FB55126403	1	HINGE PLATE, VGG-5 HINGE PLATE, VGG-8, VGG-16 LOWER OVEN HINGE PLATE, VGG-16 UPPER OVEN		
9	WSH246	4	WASHER, #10 INT TOOTH S/S		
10	FB55141003 FB45455703	1	MAGNET MOUNT - OUTER DOOR, VGG-5 MAGNET MOUNT - OUTER DOOR, VGG-8		
11	MC0005	7	MAGNET, 1 7/8 X 7/8		
12	FB55140903 FB55126503	1	MAGNETIC CATCH BRKT - OUT.DOOR, VGG-5 MAGNETIC CATCH BRKT - OUT.DOOR, VGG-8		
13	NUT132	4	NUT, 10-24 SS 18-8 HEX CAP		
14	NUT097	6	NUT, 1/4-20 SS 18-8 CAP		
15	SCR136	4	SCREW, 10-24 X 3/8 SLTD TRUSS		
16	SCR006	4	SCREW, 8 X 1/2 PHIL PAN		
17	SP0031	6	SPACER, PTFE-DOOR GLASS		
18	WSH268	12	WASHER, PTFE VG		

Figure 10. DRIVE ROTOR



ITEM#	PART#	QTY	DESCRIPTION
1	DC0101	1	COUPLING, DRIVE VGG
2	SCR497	4	SCREW, 10-24 x 3/8 HEX HEAD
3	RO0042 RO0040	1	ROTOR - DRIVE SIDE VGG-5 ROTOR - DRIVE SIDE VGG-8

Table 10. DRIVE ROTOR Parts

Figure 11. PASSIVE ROTOR

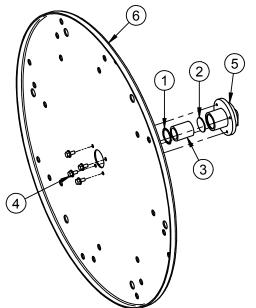
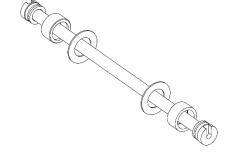


Table 11. PASSIVE ROTOR Parts

ITEM#	PART#	QTY	DESCRIPTION	
1	F0362	1	RETAINING RING, 1" INTERNAL	
2	B0251	1	BEARING DISC	
3	B0250	1	BEARING, SLEEVE .750 ID	
4	SCR497	4	SCREW, 10-24 x 3/8 HEX HEAD	
5	DC0100	1	COUPLING, PASSIVE VG	
6	RO0043 RO0041	1	ROTOR - PASSIVE SID, VGG-5 ROTOR - PASSIVE SID, VGG-8	

Figure 12. ROTOR SHAFT WELDMENT (WB45445800)



ITEM #	PART#	QTY	DESCRIPTION
1	1 WB55142800		ROTOR SHAFT, VGG-5
	WB4545800		ROTOR SHAFT, VGG-8

Table 12. ROTOR SHAFT WELDMENT (WB45445800) Parts*

Accessories

Description	Accessory #	Figure #	Item #
MEAT BASKET w/ 4 GOOSERS, VGG-8 (Not available for VGG-5)	MB0037	Figure 13	1
MEAT BASKET, VGG-5 MEAT BASKET, VGG-8	MB0040 MB0038	Figure 13	2
MEAT FORK, VGG-5 MEAT FORK, VGG-8	MF0044 MF0032	Figure 13	3
VEE SPIT, VGG-5 VEE SPIT, VGG-8	MF0045 MF0038	Figure 13	4
BKI RUBBER GLOVE	G0089	Figure 13	5

Figure 13. Accessories



Rotisserie Oven

Wiring Diagrams

Refer to the table below to find the wiring diagram associated with your unit.

Wiring Diagram	Part #	Figure #
VGG-8 10.5kW, 208V-240V, 3 Phase Delta	SB55198000	Figure 14
VGG-8 12.0kW, 208V-240V, 3 Phase Delta	SB55198100	Figure 15
VGG-8 10.5kW, 230/400V, 3 Phase Wye	SB55198200	Figure 16
VGG-8 12.0kW, 230/400V, 3 Phase Wye	SB55198300	Figure 16
VGG-5 208-240V, 3 Phase Delta	SB55197600	Figure 16
VGG-5 230/400V, 3 Phase Wye	SB55197900	Figure 16

SW5 27 24 88 / DRAWING No. SW3 55198000 Ġ TYPE | SIZE В S è Æ. 82 (3) (-1) (-1) (-1) (1) (-1) (-1) (-1) (1) (-1) (-1) (-1) BREAKER SIZE SW4 40 9 4 -N -9 33 0 10 -32 31 0 10 10.8 0.0 -[2] 6 60 5 R1 3 Ph DELTA Wiring Configuration | Record | R 29.2 TO MI ROTOR MOTOR (SEE CONNECTION DIAGRAM) DRIVE MOUNT AMPS. 31.0 27.0 CN 2 220 ≫ <u>□</u> (\circ) OF WIRES 17 TC2 \geq **■** ⊗⊗⊗⊗⊗ CRN/YEL NOTICE: THE COMBIN ENGINEERING ASSEMBLY ID DRAMING AR THESE MATE WITHOUT PF RIGHTS ARE FI-F0394 FLISE IS A
E-P010LINE FLISE IS A
F-D1010LINE FLISE IS
F RED \$ 220-240V WHITE > COMMON Standard Wattage (≥) VGG-8, R3 23 2A (M) 10 ξ Ø Š Ø LADDER DIAGRAM MODEL 꽃 Ξξ Ξ≶ DATE 12/21/16 SW5 2 5 SW2 H; SW H; 500 mA SW4 SW6 DRAWN BY ΙAΗ

Figure 14. VGG-8 10.5kW, 208V-240V, 3 Phase (SB55198000)

SW5 224 SW3 __ DRAWING No. 55198100 Å TYPE SIZE В S છું 11 600 11 REY. COMPONENT PLATE BREAKER SIZE 40 40 22 6 60 5 R1 3 Ph DELTA Wiring Configuration 182 182 AMPS. 36.4 29.9 31.8 VOLTAGE 208 240 220 9 (\circ) OF WIRES 17 18 Σ **■** ⊗⊗⊗⊗⊗ PHASE F. FORM F. LEGEND
F. FORM F. CONTROL & SEALON
F. FORM F. FORM F. FORM F. FORM
F. FORM F. SEALON
F. FORM F. FORM F. FORM
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F. FORM F. SEALON
F. FORM
F. WHITE > COMMON RED \$ 208V BLUE \$ 220-240V FN1 & FN2 FAN MOTOR CONNECTION Wattage High VGG-8, MODEL No. LADDER DIAGRAM R3 23 & (M1) 10 E O E O 왕 왕 Ξξ DATE 12/21/16 0 SW5 12 % H % H (SENSOR): DRAWN BY TAH

Figure 15. VGG-8 12.0kW, 208V-240V, 3 Phase (SB55198100)

Sw5 DRAWING No. SW3 27 27 Å 551982 NPE SIZE В S REV. COMPONENT PLATE 1 Ph WATTS SW4 33 0 1 32 0 1 31 0 1 3110 3700 3 Ph WATTS (L1, L2, L3) 3540 6 6 5 E 4050 4130 FN3 3345 3650 TO M1 ROTOR MOTOR (SEE CONNECTION DIAGRAM) DRIVE MOUNT 3 Ph AMPS. (L1, L2, L3) 15.5 14.2 14.7 CN 17.3 15.3 16.1 16.6 16.9 **□** □ 220/380 240/415 (0) 230/400 VOLTAGE TC2 18 $\otimes \otimes \otimes \otimes \otimes \otimes \otimes$ 230 V DRIVE MOTOR CONNECTION F. FORDM. TIEGEND
F. FORDM. THEE IN A
F. FALDMONK FIRST IN A
F. FALDMONK FIRST IN A
F. FURGALK FURST IN A
F. FURST FORD SAUNOWGE 30V
F. COD22 CALROD, 3400WGE 30V
F. COD22 CALROD, 3400WGE 30V
F. CLID FURC FOR FURCT IN A
F. FURST FURST IN A
F. FURST FURST IN A
F. FURST IN RED 208V BLUE 220-240V FN1 & FN2 FAN MOTOR CONNECTION PHASE 3 Ph+N+E ≥ GRANTEL MODEL No. VGG-8 R3 23 24 (M1) 10 N N N LADDER DIAGRAM \$0.000 \$1000 ℗ **₹ ₹ ₹** 12/22/16 SW5 SW4 22 \$ % H % H 27 Sw6 DRAWN BY 2 32 TAH

Figure 16. VGG-8 10.5kW, 230/400, 50Hz, 3 Phase (SB55198200)

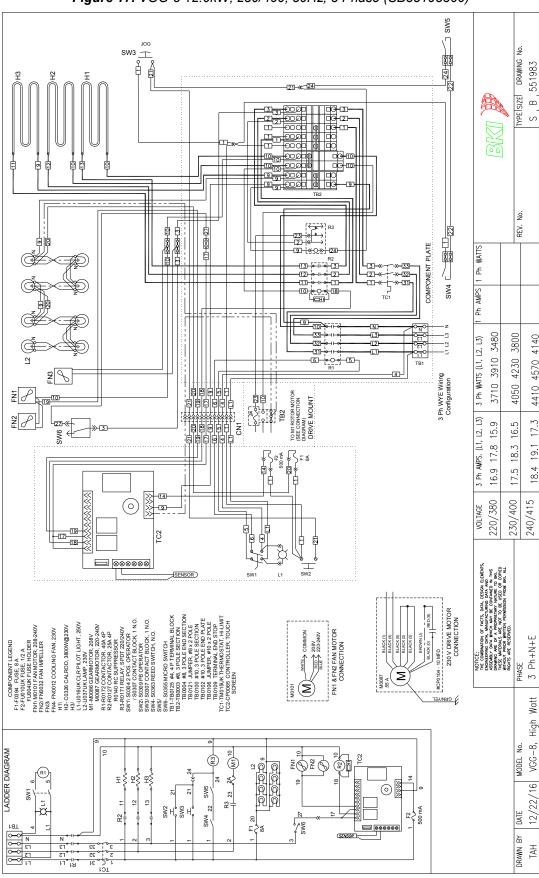


Figure 17. VGG-8 12.0kW, 230/400, 50Hz, 3 Phase (SB55198300)

FN3 888888 SW6 (\circ) 10 H1 -13 SW3-SWITCH 171 1920 171 PLATE 23 CONTROL PLATE DRIVE MOUNT LADDER DIAGRAM **ф**ы 9 000 21 12 SW2 SW3 SW5 जिल्ली की कार्या जिल्ली की जी मार्ग COMPONENT PLATE R3 23 24 W1 10 3 Ph DELTA Wiring Configuration M0099 WHITE > COMMON RED 208V BLUE 220-240V BLACK (5) BROWN (J) FN1 & FN2 FAN MOTOR CONNECTION Ø FN2 BLACK (0) 0-1 (-8 BLACK (4) COMPOI F1-F0394 FUSE, 8 A F2-FU010UK FUSE, 1/2 A FU004UK FUSE HOLDER F1\M0099 FAN MOTOR, 208-240v FN2/FN0032 FAN IMPELLER FN3-FN0012 COOLING FAN, 230V B 208 V DRIVE MOTOR CONNECTION R2 10 BLACK (5) BLACK (2) BLACK (3) (0) BROWN (J)
BLACK (O) RED (8)
#CP0104 - 10 MFD 230 V DRIVE MOTOR CONNECTION AMPS. KILOWATTS BREAKER SIZE MODEL No. VOLTAGE VGG-5 208 17.2 6.1 No. OF WIRES 220 13.8 5.2 20 3 3 TYPE SIZE DRAWING No. DATE DRAWN BY 16.3 6.7 25 240 [0] 16-147 S , B , 55197600 10/10/16 TAH

Figure 18. VGG-5, 208-240V, 3 Phase (SB55197600)

FN1 H2 FN3 -[12]-SW6 (\circ) -1101-SW3-22 SWITCH CN2 لع لم العا CONTROL PLATE DRIVE MOUNT LADDER DIAGRAM 9 00 21 E E 12 1177 SW3 3333 J J TB1 COMPONENT PLATE R3 23 24 M1 10 3 Ph DELTA Wiring Configuration M0099 TBOO69 JUMPER USED ON CUSTOMER SIDE SWITCH — SOLID BACK MODELS WHITE > COMMON BLACK (1) द्वस्त RED 208V BLUE 220-240V BROWN (J) FN1 & FN2 FAN MOTOR CONNECTION PN2 BLACK (0) - (8 SW6 CONNECTION

COMPONENT LEGEND

SW2\\$50309 PB OPERATOR

R SW3\\$50307 CONTACT BLOCK, 1 N.O.

82-240v SW5/
1230V TB1-TB0045 TERMINAL SECTION

M02.08V M02.08V TB1-TB0041 TERMINAL SECTION

FEWNOLS TERMINAL SECTION

TB0041 TERMINAL SECTION

FEWNOLS TERMINAL S BLACK (4) Ø 10 208 V DRIVE MOTOR CONNECTION 0 BROWN (J) BLACK (0) | RED (8) | 230 V DRIVE MOTOR CONNECTION KILOWATTS MODEL No. VOLTAGE AMPS. BREAKER SIZE VGG-5 220/380 8.8 5.6 15 No. OF WIRES PHASE 230/400 9.0 6.2 15 4 + E TYPE SIZE DRAWING No. REV. No. DRAWN BY DATE 240/415 9.4 6.6 15 S B 55197900 7/05/17 TAH

Figure 19. VGG-5, 230/400V, 3 Phase (SB55197900)

Rotisserie Oven NOTES

NOTES

Rotisserie Oven NOTES



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