We Fit the Way You Fry™

## **Frymaster**\*

## FilterQuick<sup>™</sup> FQ4000 easyTouch®

Taco Bell Controller (Fryers manufactured after 06/2024)

#### **Operation Manual**

This manual is updated as new information and models are released. Visit our website for the latest manual.





**△** CAUTION READ THE INSTRUCTIONS BEFORE USING.



Part Number: FRY\_IOM\_8197475 02/2025

**Original Instructions** 



#### NOTICE

IF, DURING THE WARRANTY PERIOD, THE CUSTOMER USES A PART FOR THIS FRYMASTER FOOD SERVICE EQUIPMENT OTHER THAN AN UNMODIFIED NEW OR RECYCLED PART PURCHASED DIRECTLY FROM FRYMASTER, OR ANY OF ITS AUTHORIZED SERVICE CENTERS, AND/OR THE PART BEING USED IS MODIFIED FROM ITS ORIGINAL CONFIGURATION, THIS WARRANTY WILL BE VOID. FRYMASTER AND ITS AFFILIATES WILL NOT BE LIABLE FOR ANY CLAIMS, DAMAGES OR EXPENSES INCURRED BY THE CUSTOMER WHICH ARISE DIRECTLY OR INDIRECTLY, IN WHOLE OR IN PART, DUE TO THE INSTALLATION OF ANY MODIFIED PART AND/OR PART RECEIVED FROM AN UNAUTHORIZED SERVICE CENTER.

#### NOTICE

This appliance is intended for professional use only and is to be operated by qualified personnel only. A Frymaster Factory Authorized Servicer (FAS) or other qualified professional should perform installation, maintenance, and repairs. Installation, maintenance, or repairs by unqualified personnel may void the manufacturer's warranty.

#### **NOTICE**

This equipment must be installed in accordance with the appropriate national and local codes of the country and/or region in which the appliance is installed.

#### NOTICE TO OWNERS OF UNITS EQUIPPED WITH CONTROLLERS

U.S.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation. While this device is a verified Class A device, it has been shown to meet the Class B limits.

#### **CANADA**

This digital apparatus does not exceed the Class A or B limits for radio noise emissions as set out by the ICES-003 standard of the Canadian Department of Communications.

Cet appareil numerique n'emet pas de bruits radioelectriques depassany les limites de classe A et B prescrites dans la norme NMB-003 edictee par le Ministre des Communcations du Canada.



#### **⚠** DANGER

Prior to movement, testing, maintenance and any repair on your Frymaster fryer, disconnect ALL electrical power from the fryer.

#### NOTICE

The instructions in this manual for using a bulk oil system for filling and discarding oil are for Frontline or RTI systems. These instructions may not be applicable to other bulk oil systems.



#### **A** DANGER

Keep all items out of drains. Closing actuators may cause damage or injury.



#### **⚠** DANGER

Remove all drops of water from the frypot before filling with oil. Failure to do so will cause spattering of hot liquid when the oil is heated to cooking temperature.



#### WARNING

Do not add HOT or USED oil to a JIB.



#### WARNING

NEVER drain boil out or cleaning solution into a shortening disposal unit (SDU), a built-in filtration unit, a portable filter unit, or an OQS (Oil Quality Sensor). These units are not intended for this purpose and will be damaged by the solution and void the warrantv.



#### DANGER

When draining oil into a disposal unit, do not fill above the maximum fill line located on the container.



#### 🔼 DANGER

Allow oil to cool to 100°F (38°C) before draining into an appropriate METAL container for disposal.



#### 🔼 DANGER

When draining oil into an appropriate SDU or METAL container, ensure the container will hold at least FOUR gallons (15 liters) or more for FQE30-T or FQG30-T fryers. Otherwise, oil could overflow and can cause injury.



#### **⚠** DANGER

When draining boil out solution oil into an appropriate METAL container, ensure the container will hold at least FOUR gallons (15 liters) or more for FQE30-T or FQG30-T fryers. Otherwise boil out solution could overflow and can cause injury.



#### 🔼 DANGER

Open the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.



#### 🔔 DANGER

Ensure that the frypot and filter pan are completely dry and free of water before filling with oil. Failure to do so will cause splattering of hot liquid when the oil is heated to cooking temperature.



#### **M** WARNING

The on-site supervisor is responsible for ensuring that operators are made aware of the inherent hazards of operating a hot oil filtering system, particularly the aspects of oil filtration, draining and cleaning procedures.



#### **DANGER**

Do not drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.



#### **MARNING**

Never drain water into the filter pan. Water will damage the filter pump



#### WARNING

Ensure a filter paper/pad is in place prior to filtering, draining or disposing of oil. Failure to insert a filter paper/pad may result in clogged lines and/or pumps.



#### DANGER

DO NOT drain more than one full frypot or two split frypots into the SDU at one time to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.



Never operate the filter system without oil in the system.

#### **⚠** DANGER

The crumb tray in fryers equipped with a filter system MUST be emptied into a fireproof container at the end of frying operations each day. Some food particles can spontaneously combust if left soaking in certain shortening material.

#### **A** DANGER

When using a sediment basket, it MUST be removed and emptied prior and during each filtration. Some food particles can spontaneously combust if left soaking in certain shortening material.

#### **WARNING**

Never use the filter pan to transport old oil to the disposal area.

#### **MARNING**

Never leave the fryer unattended during the boil out process. If the solution overflows, press the ON/OFF switch to the OFF position immediately.

#### **MARNING**

This appliance is not intended for use by children under the age of 16 or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision concerning use of the appliance by a person responsible for their safety. Do not allow children to play with this appliance.

#### **MARNING**

Operation, installation, and servicing of this product may expose you to chemicals/products including [Bisphenol A (BPA), glass wool or ceramic fibers, and crystalline silica], which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.



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## CHAPTER 1: FILTERQUICK™ FQ4000 TACO BELL easyTouch® CONTROLLER INSTRUCTIONS

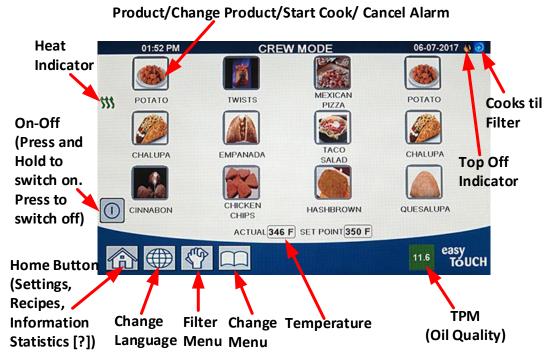
#### 1.1 FQ4000 General Information

Welcome to the FQ4000, an easy-to-use touch screen controller with the utility of 40-product menu capability. One button push starts a cook cycle for a selected product. The controller can move seamlessly from one product to another.

The FQ4000 will operate with electric and gas fryers, both full- and split-vat.

#### 1.2 FQ4000 Button Description and Functions

#### 1.2.1 Navigation Buttons



#### 1.2.1.1 Main Menu Button Bar

The main menu button bar at the bottom of the screen is used to navigate the various FQ4000 menus (see Figure 1).



#### 1.2.1.2 Home Button

The home button is used to switch to the home screen (see Figure 2). The home screen has Crew Mode, Menus, Recipes, Settings, Service and Information Statistics buttons.



Figure 2

#### 1.2.1.3 Crew Mode Button

The crew mode button switches from the home screen to the cooking mode (see Figure 3).



Figure 3

#### 1.2.1.4 Menus Button

The menus button is used to set up multiple menus with specific products such as breakfast, lunch and changeover menus (See Figure 4).



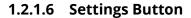
Figure 4

# O1:53 PM EDIT RECIPE PARAMETERS POTATO S 350°F S 3:00 W BASKET LIFT - FULL W SENSITIVITY 5-9 W SHAKE 1 :00 - ∞ POUCH

Figure 5

#### 1.2.1.5 Recipes Button

The recipes button allows editing or adding of products (see Figure 5).



The settings button allows access to edit the settings of the fryer (see Figure 6).



Figure 6

### 

Figure 7

#### 1.2.1.7 Service Button

The service button allows access to service functions in the fryer (see Figure 7).

During programming and other functions if no activity occurs within one minute, the controller returns to the previous operation mode.

#### 1.2.1.8 Power Button

Pressing and holding the power button for three (3) seconds powers up the fryer. Pressing the power button when the fryer is on turns the fryer off (see Figure 8).



Figure 8

#### 1.2.1.9 Language Button

Pressing the language button switches between a primary language and a secondary language if the feature is configured in manager settings (see Figure 9).



Figure 9

#### 1.2.1.10 Filter Menu Button

Pressing the filter menu button provides access to the functions associated with filtering, disposing, draining and filling the vats (see Figure 10).



Figure 10

#### 1.2.1.11 Menu Button

Pressing the menu button allows switching between different menus if configured (see Figure 11).



Figure 11

#### 1.2.1.12 Information Statistics Button

Pressing the information statistics button provides information on filter statistics, oil statistics, life statistics, usage statistics, recovery time, last load statistics, and software versions (see Figure 12).



Figure 12

#### 1.2.1.13 Escape Menu Items

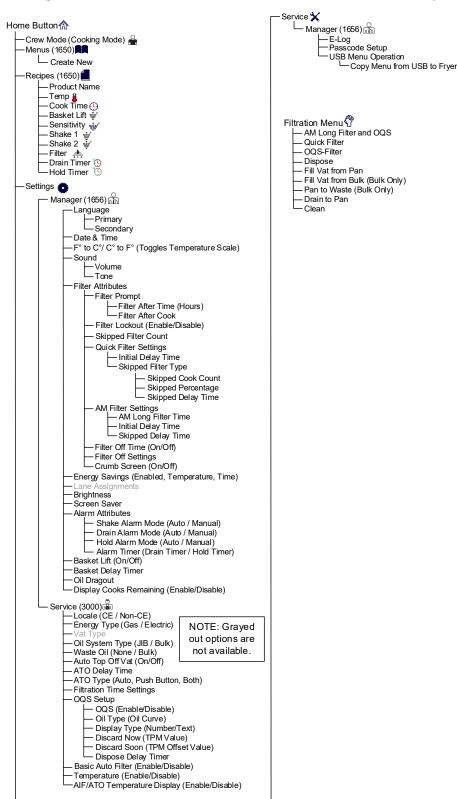
To escape or back out of MENUS and SUB-MENUS, press the Home or Back arrow button (see Figure 13).



Figure 13

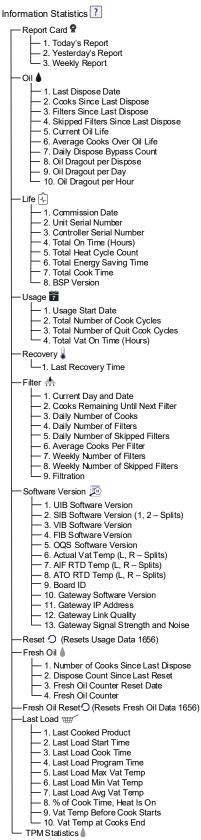
#### 1.3 FQ4000 Taco Bell Menu Summary Tree

Reflected below are the major programming sections in the FQ4000 and the order in which submenu headings will be found under the sections in the Installation and Operation Manual.



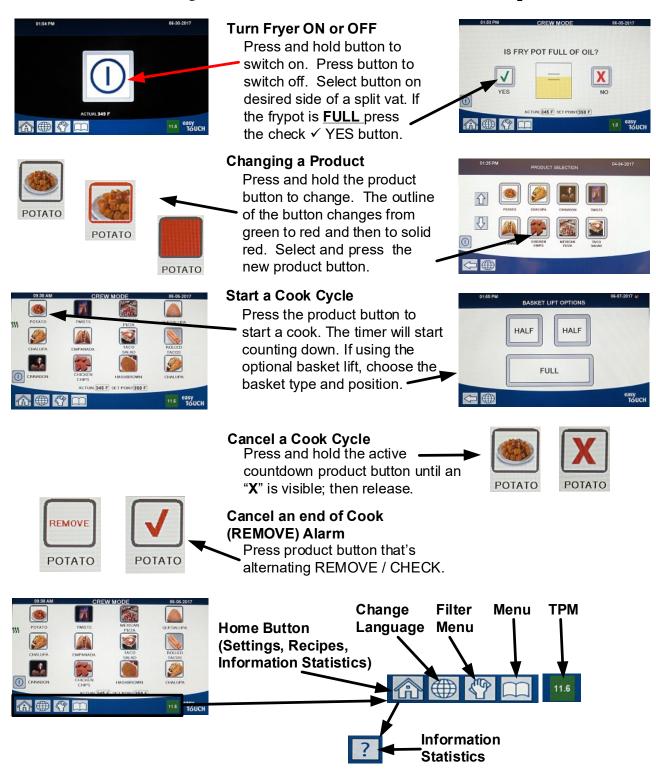
#### 1.4 FQ4000 Information Summary Tree

Reflected below are the information statistics in the FQ4000 and the order in which submenu headings will be found in the controller.



#### 1.5 Basic Operation

## FQ4000 easyTouch® Taco Bell Operation



#### 1.6 Cooking

## Cooking with the Taco Bell FQ4000 easyTouch® Controller

A product is shown in display. To choose a different product press and hold the product button to change. The outline of the button changes from green to red and then to solid red. Select and press the new product button.









**2** Press the product button to begin the cook cycle.



**3** Display changes to COOKING. The timer will start counting down.



**4** REMOVE alternating with the CHECKMARK is displayed when the cook cycle is complete. Press the REMOVE/CHECKMARK button to cancel alarm. If an optional basket lift is used this step is not necessary.



**5** DRAIN TIMER is displayed as the drain timer counts down and ends with DRAIN EXPIRED. Press the DRAIN EXPIRED/CHECKMARK button to cancel alarm.



DRAIN EXPIRED alternating with the CHECKMARK is displayed when the hold time has elapsed and expired. Press the DRAIN EXPIRED/CHECKMARK button to cancel alarm.





**7** HOLD TIMER is displayed as the hold timer counts down.



8 HOLD EXPIRED alternating with the CHECKMARK is displayed when the hold time has elapsed and expired. Press the HOLD EXPIRED/CHECKMARK button to cancel alarm.





The display returns to the crew mode screen and the unit is wready for cooking.



#### 1.7 Fryer (Service) Setup Programming

It is necessary upon initial power up or when changing out a controller to configure the parameters for the fryer. The setup includes locale, energy type, vat type, fresh oil type, waste oil type and auto top off settings. **NOTE:** These settings should **ONLY** be changed by a technician.

DISPLAY		ACTION
	4	
	1.	With the controller at the off/standby position, press the Home button.
	2.	Press the Settings button.
	3.	Press the Service button.
3000	4.	Enter <b>3000</b>
<b>\</b>	5.	Press the √ (check) button.
□ LOCALE	6.	Press the Locale button.
CE NON-CE US	7.	Select <b>US</b> , <b>CE</b> or <b>NON-CE</b> . US (United States), CE (European Conformity standards) or Non-CE (non-European standards)
SETUP COMPLETE RESTART THE SYSTEM	8.	No action.
<b>\</b>	9.	Press the √ (check) button.
□ ENERGY TYPE	10.	Press the Energy Type button.
GAS ELECTRIC	11.	Select <b>GAS</b> or <b>ELECTRIC</b>
SETUP COMPLETE RESTART THE SYSTEM	12.	No action.
<b>√</b>	13.	Press the √ (check) button.
□ VAT TYPE	14.	This function is not available.
$\Box$	15.	Press the Down arrow button.
□ OIL SYSTEM TYPE	16.	Press the Oil System Type button.
JIB BULK		Select <b>JIB</b> or <b>BULK</b> . <b>NOTE:</b> A JIB (Jug in a Box) or BIB (Bag in a Box) is a disposable type oil container. A bulk system has large storage oil tanks that are connected to the fryer that fills an onboard reservoir.
SETUP COMPLETE RESTART THE SYSTEM	18.	No action.
V	19.	Press the √ (check) button.
□ WASTE OIL		Press the √ (check) button.  Press the Waste Oil button.

DISPLAY		ACTION
		<b>NOTE:</b> Select NONE if disposing oil into an SDU or other
		METAL container. Select BULK if disposing oil into a bulk oil
		system, which has large storage oil tanks that are connected
		to the fryer.
SETUP COMPLETE RESTART THE	22	No action.
SYSTEM	22.	No action.
<b>√</b>	23.	Press the √ (check) button.
□ AUTO TOP OFF VAT	24.	Press the Auto Top Off Vat button.
ON OFF	25.	Select <b>ON</b> unless top off is not desired for this vat. Default is <b>ON</b> .
₹ ↓	26.	Press the Down arrow button.
□ ATO DELAY TIME		Press the ATO Delay time button.
0 MINUTES	28.	Press the time to change the delay time after the top off oil reservoir has been changed before the system begins to top off. Press the √ (check) button. The default is 0 minutes for liquid shortening. Enter a value greater than 0 for solid shortening.
SETUP COMPLETE	29.	Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ ATO TYPE	30.	Press the ATO Type button.
AUTO PUSH BUTTON BOTH	31.	Select <b>AUTO</b> if auto top if auto top off is installed. Select <b>PUSH BUTTON</b> if only manual top off is installed. Select <b>BOTH</b> if both auto and manual top off are installed and desired.
SETUP COMPLETE	32.	Press the $\sqrt{\ }$ (check) button inside the SETUP COMPLETE box.
☐ FILTRATION TIME SETTINGS	33.	Press the Filtration Time Settings button.
□ AM FILTER TIME □ QUICK FLUSH TIME □ CLEAN TIME □ DISPOSE FLUSH TIME	1	These settings should <b>ONLY</b> be adjusted if instructed by the factory. Adjusting these can severely impact filters.  The default settings are:  AM FILTER TIME -300  QUICK FLUSH TIME -10
<b>/</b> ¬		CLEAN TIME -3600
1		□ DISPOSE FLUSH TIME -25
00000000	2-	Press the back button when complete.
OQS SETUP		Press the OQS Setup button if an OQS sensor is installed.
□ OQS ENABLE/DISABLE	36.	Press OQS ENABLE/DISABLE button to enable/disable the OQS sensor.
ENABLE DISABLE	37.	Select <b>ENABLE</b> to enable the OQS sensor or <b>DISABLE</b> to disable the OQS sensor.

DISPLAY	ACTION
SETUP COMPLETE	38. Press the √ (check) button inside the SETUP COMPLETE box.
OIL TYPE	39. Press the Oil Type button.
OC01v02, OC02v02, etc.	40. Select the correct oil type curve. Press the down arrow
\[ \frac{1}{\triangle} \]	button to scroll to additional oil type curves. Use the table on instruction sheet 8197316 to determine the oil type. Ensure the oil type matches what the store is using.
SETUP COMPLETE	41. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISPLAY TYPE	42. Press the Display Type button.
NUMBER TEXT	43. Select <b>NUMBER</b> or <b>TEXT</b> . NOTE: If set to NUMBER the Total Polar Materials is shown as a number. If set to Text, only DISCARD SOON/CONFIRM, OIL IS GOOD or DISCARD NOW is shown.
SETUP COMPLETE	44. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISCARD NOW	45. Press the Discard Now button.
TPM VALUE	46. Press the number above TPM Value. Once the TPM (Total Polar Materials) value of the oil is attained, the fryer will prompt to discard the oil. (Default 23)
1 2 3 4 5 XX XX 6 7 8 9 0 C XX	47. Use the keypad to enter the TPM discard now value.
<b>V</b>	48. Press the √ (check) button once the value is entered.
	49. Press the √ (check) button to save the value.
SETUP COMPLETE	50. Press the √ (check) button inside the SETUP COMPLETE box.
$\bigcirc$	51. Press the down arrow button.
□ DISCARD SOON	52. Press the Discard Soon button.
TPM VALUE	53. Press the number above Discard Soon TPM Value. This value is typically chosen as a number below the TPM Discard Now value. This value will display the Discard Soon message when the TPM Discard Soon value is attained. This serves as a notice to the staff that the oil will need to be discarded soon. (Default 20)

DISPLAY	ACTION
1 2 3 4 5 X X X 6 7 8 9 0 C	54. Use the keypad to enter the TPM discard soon value.
	55. Press the √ (check) button once the value is entered.
	56. Press the √ (check) button to save the value.
SETUP COMPLETE	57. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISPOSE DELAY TIMER	58. Press the Dispose Delay Timer button. This is the amount of time once the DISCARD NOW prompt is displayed and bypassed before the DISCARD NOW message returns.  (Default is: 30 minutes. Minimum value is :00 = DISABLED, maximum value is 4:00 hours.)
HOURS MINUTES	59. Press the hour's box to enter a delay time in hours.
TIME  1 2 3 4 5 XX X  6 7 8 9 0 C  CANY TOUCH	60. Using the key pad, enter the time in hours.
0 : 304	61. Press the minute's box to enter a delay time in minutes.
1 2 3 4 5 XX X 6 7 8 9 0 C X	62. Using the key pad enter the time in minutes.
	63. Press the √ (check) button to save the value.
SETUP COMPLETE	64. Press the √ (check) button inside the SETUP COMPLETE box.
	65. Press the back button when complete.
<u></u>	66. Press the down arrow button.
☐ BASIC AUTO FILTER	67. Press the Basic Auto Filter button.
ENABLE DISABLE	68. Select <b>ENABLE</b> Basic Auto Filter (Auto Filtration for units <u>without</u> OIB sensors) or <b>DISABLE</b> Basic Auto Filtration

DISPLAY	ACTION
	(Auto Filtration for units <u>with</u> OIB sensors). (Default ENABLE)
SETUP COMPLETE	69. Press the √ (check) button inside the SETUP COMPLETE box.
□ AM FILTER SETTINGS	70. Press the AM Filter Settings button.
□ AM FILTER ON/OFF	71. Press the AM Filter ON/OFF button.
ON OFF	72. Select <b>ON</b> to Enable AM Filters or <b>OFF</b> to Disable AM Filters.
SETUP COMPLETE	73. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISABLE AM FILTER	74. This option is only available if AM Filter ON/OFF is set to OFF. Press the DISABLE AM FILTER button.
PERMANENT AFTER 48 HOURS	75. Select <b>PERMANENT</b> to disable AM filters until reenabled or <b>AFTER 48 HOURS</b> to automatically reenable AM filters after 48 hours.
SETUP COMPLETE	76. Press the √ (check) button inside the SETUP COMPLETE box.
	77. Press the Back button.
□ TEMPERATURE	78. Press the Temperature button.
ENABLE DISABLE	79. Select enable to enable the temperature button. Select disable to disable the temperature button and display constant temperature display.
SETUP COMPLETE	80. Press the √ (check) button.
	81. Press the Back button.
□ AIF TEMPERATURE DISPLAY	82. Press the AIF Temperature Display button.
ENABLE DISABLE	83. Select enable to enable the AIF temperature display. Select disable to disable the AIF temperature display and display constant AIF temperature display. This is primarily used for troubleshooting. Default is DISABLE.
SETUP COMPLETE	84. Press the √ (check) button when complete.
	85. Press the Home button.
CREW MODE	86. Press the Crew Mode button.
	87. Press and hold the momentary reset switch. Ensure the

DISPLAY	ACTION
	switch is pressed and held for one (1) minute. On gas units, the button is located under the far-left control box or under the USB slot. On electric units, the button is located on the rear of the control box behind the JIB reset switch or under the USB slot.
	88. The system reboots in approximately 45 seconds and returns to off/standby mode.

#### 1.8 Fryer (Manager) Settings Programming

It is necessary upon initial power up or when changing out a controller to configure these local manager settings for the fryer. The setup includes language, date and time, temperature scale, sound settings, filter settings, energy savings, lane assignments and screen brightness. These settings should **ONLY** be changed by a manager or technician.

settings should <u>ONLY</u> be changed by a manager or technician.			
DISPLAY	ACTION		
	<ol> <li>With the controller at the off/standby position, press the Home button.</li> </ol>		
	2. Press the Settings button.		
	3. Press the Manager button.		
1656	4. Enter <b>1656</b>		
	5. Press the √ (check) button.		
□ LANGUAGE	6. Press the Language button.		
	7. Press the Primary Language button.		
□ ENGLISH	8. Select the language desired.		
	9. Press the Secondary Language button.		
□ SPANISH	10. Select the language desired.		
Ţ	11. Press the Back button.		
□ DATE & TIME	12. Press the Date & Time button.		
<u></u>	13. Press the Set Time button		
08 : 22	14. Press the hour's box.		
1 2 3 4 5 XX X 6 7 8 9 0 C	15. Using the key pad, enter the time in hours.		

DISPLAY	ACTION
08 : 22	16. Press the minute's box.
TNE  1 2 3 4 5 XX  6 7 8 9 0 C  CANY TOUCH	17. Using the key pad enter the time in minutes.
AM PM 24hr	18. Press the AM, PM or 24HR button.
<b>V</b>	19. Press the √ (check) button.
SETUP COMPLETE	20. Press the smaller √ (check) button inside the SETUP COMPLETE box.
7	21. Press the Set Date button
DD:MM:YY MM:DD:YY	22. Press the Date Format box to toggle between MM-DD-YY or DD-MM-YY.
2017	23. At the top of the screen, the year is shown. Press the left or right arrow to select the year.
MARCH	24. Below the year is the month. Press the left or right arrow to select the month.
<b>\</b>	25. Select the date using the numbered keys and press the √ (check) button.
SETUP COMPLETE	26. Press the smaller √ (check) button inside the SETUP COMPLETE box.
	27. Press the DST (DAYLIGHT SAVINGS TIME) SETUP button.
□ DST ON/OFF	28. Press the DST ON/OFF button.
ON OFF	29. Select ON to enable DST or OFF to disable DST.
SETUP COMPLETE	30. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ DST SETTINGS	31. Press the DST SETTINGS button.
	32. Select any of these and use the keypad to modify. The
□ DST START MONTH	default settings for the US are:
□ DST START SUNDAY	DST START MONTH -3
□ DST END MONTH	DST START SUNDAY -2
□ DST END SUNDAY	DST END MONTH -11
<b>/</b>	DST END SUNDAY -1  33. Press the √ (check) button when complete.

DISPLAY	ACTION
SETUP COMPLETE	34. Press the smaller √ (check) button inside the SETUP COMPLETE box.
$\Box$	35. Press the Back button three (3) times.
□ F° TO C°	36. Press the F° TO C° or F° TO C° button. <b>NOTE: F</b> is used for Fahrenheit, <b>C</b> is used for Celsius
CONFIRM YES NO	37. Select YES to toggle the temperature scale.
COMPLETED SUCCESSFULLY	38. Press the √ (check) button when complete.
	39. Press the Sound button.
	40. Use the up down arrows to change the volume level and tone. Volume has nine levels with 1 being the softest and 9 the loudest. Tone has three frequencies from 1-3. Use different frequencies to distinguish different vats.
<b>V</b>	41. Press the √ (check) button when complete.
SETUP COMPLETE	42. Press the smaller √ (check) button inside the SETUP COMPLETE box.
$\Box$	43. Press the Down button.
□ FILTER ATTRIBUTES	44. Press the Filter Attributes button.
□ FILTER PROMPT	45. Press the Filter Prompt button.  The auto filtration mode uses two measures before prompting to filter. One checks for cook cycles which is adjusted in the FILTER AFTER COOK setting and the other checks for time which is adjusted in the following section FILTER AFTER TIME setting. The prompt for filtration is initiated by whichever occurs first; either the number of cycles elapsed or time elapsed.
□ FILTER AFTER TIME	46. Press the FILTER AFTER TIME button. The Filter Time option is used to set the elapsed time before a filtration prompt.  This option is useful in lower volume stores, where filtration is desired more often than the amount the cook cycles would generate.
	47. Press the √ (check) button to continue or press the number button and enter the number of hours in between filter prompts. (ex. after every two hours, enter as 2) and press the √ (check) button. (By default, the time is set to 0 hours to disable)

DISPLAY	ACTION
	48. Press the √ (check) button.
SETUP COMPLETE	49. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ FILTER AFTER COOK	50. Press the FILTER AFTER COOK button. The FILTER AFTER option is used to set the number of cooking cycles which occur in the vat before the filtration prompt is displayed. If no prompts are desired set to 0 to disable. NOTE: If using Filter Count prompts for individual products under recipes, this setting needs to be set to 1 to activate Recipe Filter Counts. Recipe Filter Counts override Filter After Cook values from 1-99 in this setting.
	51. Press the √ (check) button to continue or press the number button and enter the number of cooks and press the √ (check) button
<b>√</b>	52. Press the √ (check) button.
SETUP COMPLETE	53. Press the smaller √ (check) button inside the SETUP COMPLETE box.
$\Box$	54. Press the Back button.
□ FILTER LOCKOUT	55. Press the FILTER LOCKOUT button.
ENABLE DISABLE	56. Select enable to enable the filter lockout. Select disable to disable the filter lockout. Filter lockout will lockout the fryer based off the settings in the skipped filter count setting.
SETUP COMPLETE	57. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ SKIPPED FILTER COUNT	58. Press the SKIPPED FILTER COUNT button.
	59. Press the √ (check) button to continue or press the number button and enter the number of skipped filters allowed before the filter lockout locks out the fryer and press the √ (check) button. If set to 0, no skips or bypasses are allowed.
SETUP COMPLETE	60. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ QUICK FILTER SETTINGS	61. Press the QUICK FILTER SETTINGS button.
□ INTIAL DELAY TIME	62. Press the Initial Delay Time button.

DISPLAY	ACTION  63. Press the minute's box to adjust the initial delay time. The initial delay time is the time the fryer sits idle, after filter after or filter cooks have been completed, before prompting for a filter. (Default is two (2) minutes.)  0=Disabled
1 2 3 4 5 XX X 6 7 8 9 0 C	64. Using the keypad to enter the time in minutes.
<b>√</b>	65. Press the √ (check) button.
<b>I</b>	66. Press the √ (check) button.
SETUP COMPLETE	67. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ SKIPPED FILTER TYPE	68. Press the SKIPPED FILTER TYPE button.
□ SKIPPED COOK COUNT □ SKIPPED PERCENTAGE □ SKIPPED DELAY TIME	69. The selection highlighted is the current type configured. To edit, select the type of skipped filter type.
□ SKIPPED COOK COUNT	70. Press the SKIPPED COOK COUNT button.
NUMBER OF COOKS	71. Press the NUMBER OF COOKS box to adjust the skipped cook counts before re-prompting for a filter.
1 2 3 4 5 X 6 7 8 9 0 C	72. Using the keypad to enter the time in minutes.
<b>I</b>	73. Press the √ (check) button.
	74. Press the √ (check) button.
SETUP COMPLETE	75. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ SKIPPED PERCENTAGE	76. Press the % OF TIMER OR COOK COUNT button.

DISPLAY	ACTION
50 4 % OF TIMER OR COOK COUNT	77. Press the % OF TIMER OR COOK COUNT box to adjust the percentage of a filter time timer or cook count before reprompting for a filter. Example: If set for 50%, after skipping it will half the time or cooks before re-prompting. If the original filter count was 6, setting to 50% will reprompt at 3.
1 2 3 4 5 X 6 7 8 9 0 C X	78. Using the keypad to enter the time in minutes.
	79. Press the √ (check) button.
<b>I</b>	80. Press the √ (check) button.
SETUP COMPLETE	81. Press the smaller √ (check) button inside the SETUP COMPLETE box.
☐ SKIPPED DELAY TIME	82. Press the Skipped Delay Time button.
5 MINUTES	83. Press the minute's box to adjust the skipped delay time. The skipped delay time is the time after the initial filter is skipped before it prompts again to filter. The first time the filter is skipped the filter button turns from white to yellow. The next time the filter is skipped, the filter button turns from yellow to red until the filter is performed. (Default is five (5) minutes.) 0=Disabled
02-25 PM SKIPPED DELAY TIME  1 2 3 4 5 X X 6 7 8 9 0 C  Casy TOUCH	84. Using the keypad enter the time in minutes.
<b>V</b>	85. Press the √ (check) button.
	86. Press the √ (check) button.
SETUP COMPLETE	87. Press the smaller √ (check) button inside the SETUP COMPLETE box.
$\overline{\Box}$	88. Press the Back button.
①	89. Press the Down button.

DISPLAY	ACTION
□ AM FILTER SETTINGS	90. Press the QUICK FILTER SETTINGS button.
□ AM LONG FILTER TIME	91. Press the AM Short Filter Delay Timer button. Enter the start time for the AM Long Filter Time prompt and press the √ (check) button. (Default is 10:00am). Enter 00:00 to temporarily disable.
SETUP COMPLETE RESTART THE SYSTEM	92. Press the √ (check) button.
□ INTIAL DELAY TIME	93. Press the Initial Delay Time button.
2 MINUTES	94. Press the minute's box to adjust the AM initial delay time. This is the amount of time which an operator can delay the start of an AM Long Filter. (Default is two (2) minutes.) 0=Disabled
1 2 3 4 5 X 6 7 8 9 0 C	95. Using the keypad to enter the time in minutes.
<b>\</b>	96. Press the √ (check) button.
<b>√</b>	97. Press the √ (check) button.
SETUP COMPLETE	98. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ SKIPPED DELAY TIME	99. Press the Skipped Delay Time button.
5 MINUTES	100. Press the minute's box to adjust the skipped delay time.  The skipped delay time is the time after the initial AM filter is skipped before it prompts again to filter. The first time the filter is skipped the filter button turns from white to yellow. The next time the filter is skipped, the filter button turns from yellow to red until the filter is performed.  (Default is five (5) minutes.) 0=Disabled
02-58 PM SKIPPED DELAY TIME  1 2 3 4 5 X X 6 7 8 9 0 C  Casy Touch	101. Using the keypad enter the time in minutes.
<b>√</b>	102. Press the √ (check) button.

DISPLAY	ACTION
	103. Press the √ (check) button.
SETUP COMPLETE	104. Press the smaller √ (check) button inside the SETUP COMPLETE box.
	105. Press the Back button.
□ FILTER OFF TIME	106. Press the Filter Off Time button. The Filter Off Time option is used to set times in which the filter prompt is disabled (ex. noon rush).
ON OFF	107. Select ON to enable FILTER OFF TIME. Select OFF to disable FILTER OFF TIME.
□ FILTER OFF SETTINGS	<ul> <li>108. Press the Filter Off Settings button. The Filter Off Settings option is used to set the times in which the filter prompt is disabled (ex. noon rush).</li> <li>109. NOTE: If FILTER OFF TIME is disabled (OFF), this option is grayed out and not available.</li> </ul>
FILTER OFF SETTINGS  M-F 1  START HOURS MINUTES TOUCH	110. Use the up down arrows to scroll between M-F 1 thru SUN 4. There are a total of 12 periods which can be programmed for filter prompt lockout. Select the field to edit the start and stop times of when the filter prompt should be suspended. Select AM/PM. Once the times are selected press the check button to save the setting. (The example at the left shows on Monday – Friday no filtering is desired during a lunch rush from 11:00 AM until 2:00 PM.)
	111. Once the times are selected press the √ (check) button.
SETUP COMPLETE	112. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ CRUMB SCREEN	113. Press the Crumb Screen button. The Crumb Screen option is used when using sediment trays to prompt to dump them during filtration.
ON OFF	114. Select ON to enable dump CRUMB SCREEN (Sediment Tray) prompt. Select OFF to disable dump CRUMB SCREEN (Sediment Tray) prompt.
SETUP COMPLETE	115. Press the smaller √ (check) button inside the SETUP COMPLETE box.
	116. Press the Back button.
□ ENERGY SAVINGS	117. Press the Energy Savings button. The Energy Savings option is used during idle periods to lower the frypot temperature to save energy.

DISPLAY	ACTION
OFF ON	118. Press the Enable button to toggle the Energy Saving option on or off.
<b>I</b>	119. Press the Set Back Temp button to change the setpoint of the Energy Saving option. Use the number pad to enter the Energy Saving setpoint temperature and press the √ (check) button.
	120. Press the Idle Time button to change the amount of time in minutes the vat sits idle before automatically entering the Energy Saving mode. Use the number pad to enter the Energy Saving setpoint temperature and press the √ (check) button.
<b>I</b>	121. Press the √ (check) button.
SETUP COMPLETE	122. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ LANE ASSIGNMENTS	123. This function is not available.
□ BRIGHTNESS	124. Press the Brightness button. This is used to set the brightness of the screen. Use the up down arrows to adjust. (Default is 100.)
	125. Press the √ (check) button.
SETUP COMPLETE	126. Press the smaller √ (check) button inside the SETUP COMPLETE box.
	127. Press the Down button.
□ SCREEN SAVER	128. Press the Screen Saver button. This is used to set the amount of time, after the controller is turned off, before going into a screen saver mode. Use the up down arrows to adjust time. (Default is 15 minutes.)
	129. Use the up down arrows to change the brightness of the screen. Brightness has nine levels with 100 being the brightest and 10 the darkest.
<b>√</b>	130. Press the √ (check) button when complete.
SETUP COMPLETE	131. Press the √ (check) button when complete.
□ ALARM ATTRIBUTES	132. Press the Alarm Attributes button
□ SHAKE ALARM MODE	133. Press the Shake Alarm Mode button. Select Auto or Manual. This allows the user to select between auto or manual shake alarm cancellation.
SETUP COMPLETE RESTART THE SYSTEM	134. Press the √ (check) button.

DISPLAY	ACTION
V	
□ DRAIN ALARM MODE	135. Press the Drain Alarm Mode button. Select Auto or Manual.  This allows the user to select between auto or manual drain alarm cancellation.
SETUP COMPLETE RESTART THE	
SYSTEM	136. Press the √ (check) button.
□ HOLD ALARM MODE	137. Press the Hold Alarm Mode button. Select Auto or Manual.  This allows the user to select between auto or manual hold alarm cancellation.
SETUP COMPLETE RESTART THE SYSTEM	138. Press the √ (check) button.
□ ALARM TIMER	139. Press the Alarm Timer button. These settings allow the user to select the amount of time before auto cancelling the drain alarm timer or hold alarm timer. Default settings are 5 seconds.
SETUP COMPLETE RESTART THE SYSTEM	140. Press the √ (check) button.
$\Box$	141. Press the Back button two (2) times.
□ BASKET LIFT	142. Press the Basket Lift button.
ON OFF	143. Select ON to enable the basket lift or OFF to disable the basket lift.
SETUP COMPLETE RESTART THE SYSTEM	144. Press the √ (check) button.
$\Box$	145. Press the Down button.
□ OIL DRAGOUT	146. The Oil Drag out function sets parameters that adjust flow and flow adjust. These parameters are used to calculate oil drag out usage for statistical information that is captured in the Information Statistics function under Oil statistics.
□ FLOW	147. Enter the oil drag out flow rate of pounds per minute (Default is 2.211) and press the √ (check) button. (Note: Enter values from 0100-4000 for ranges 0.100-4.000lbs).

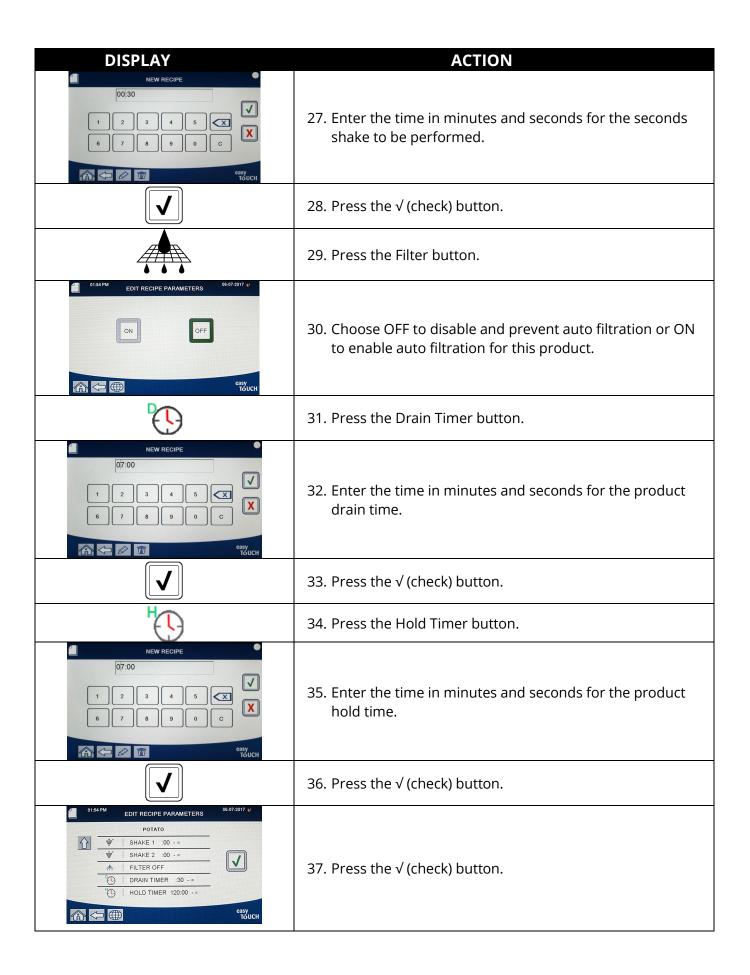
DISPLAY	ACTION
SETUP COMPLETE	148. Press the √ (check) button when complete.
□ FLOW ADJUST	149. Enter the configurable flow rate (Default is 1) and press the √ (check) button. (Note: Enter values from 10-200 for ranges 0.10-2.00lbs).
SETUP COMPLETE	150. Press the √ (check) button when complete.
DISPLAY COOKS REMAINING	151. Press the Display Cooks Remaining button.
ENABLE DISABLE	152. Select enable to display the cooks remaining until a filter is prompted in the top right corner of the screen. The icon will display the number of cooks with a green + sign for any cooks remaining greater than 5 (five). If 3-5 cooks are remaining, the amount of cooks are shown in yellow. If 2 or less cooks are remaining, the amount of cooks are shown in red. If the fryer is topping off, the cooks remaining icon will be temporary replaced with the top off oil drop icon until it finishes topping off. Default is ENABLE.
SETUP COMPLETE	153. Press the √ (check) button when complete.
$\Box$	154. Press the Back button.
	155. Press the Home button.
CREW MODE	156. Press the Crew Mode button.
	<ul> <li>157. Press and hold the momentary reset switch. Ensure the switch is pressed and held for one (1) minute. On gas units, the button is located under the far-left control box or under the USB slot. On electric units, the button is located on the rear of the control box behind the JIB reset switch or under the USB slot.</li> <li>158. The system reboots in approximately 45 seconds and</li> </ul>
$\Box$	returns to off/standby mode.

## **1.9 Adding or Editing Existing Products**This function is used to add additional products or edit existing products.

DISPLAY	ACTION
	1. Press the Home button.
	2. Press the Recipes button.

DISPLAY	ACTION
1650	3. Enter <b>1650</b>
<b>V</b>	4. Press the √ (check) button.
OS:4 AM  RECIPES  04:48-2017  PETATO  COMMUNIA  COMUNIA  COMMUNIA  COMMUNIA	5. Choose the product icon to edit or press the + to add a new product.
	6. Press the pencil icon at the bottom of the screen to edit an existing product.
RECIPES  65-65-2017  X POTATO Q W E R T Y U I O P A S D F G H J K L Z X C V B N M X  -7123 SPACE  CSSY TOUCH	7. Enter or change the name of the product using the keyboard.
	8. Press the √ (check) button.
POTATO    350°F   350°F   3 300   W   BASKET LIFT - FULL   W   SENSITIVITY 5-9   W   SHAKE 1 00 - ∞	9. This screen displays the current setpoint, cook time, basket lift, sensitivity, shake timers, filter settings, drain timer and hold timer. To edit a parameter, press the item to edit.
	10. To edit temperature, press the temp button.
NEW RECIPE  350  1 2 3 4 5 X  6 7 8 9 0 C  Casy Touch	11. Use the keypad to enter or edit the cook temperature for the product.  NOTE: Ensure that the temperature is changed from 32°F (0°C) to 350°F (177°C).
<b>√</b>	12. Press the √ (check) button.
<u> </u>	13. Press the cook time button.
NEW RECIPE  03:10  1 2 3 4 5 XX  6 7 8 9 0 C  Carry Touch	14. Use the keypad to enter or edit the cook time in minutes and seconds.
	15. Press the √ (check) button.

DISPLAY	ACTION
	16. Press the Basket Lift button.
NONE X	17. Press the up/down arrows to select NONE if no basket lift is desired for this product; Option if the left or right basket lift should operate independently; or Full if both basket lifts should operate simultaneously for large baskets.
<b>√</b>	18. Press the √ (check) button.
<b>—</b>	19. Press the sensitivity (load compensation) button.
NEW RECIPE  LOAD SIZE  LOAD SIZE	<ul> <li>20. Use the up and down arrows to change the load compensation or sensitivity setting recommended for this product.</li> <li>This setting allows the product compensation (sensitivity) to be changed. Some menu items may need an adjustment, depending on their cooking characteristics.</li> <li>NOTE: It is highly recommended to NOT adjust this setting, as it could have an adverse effect on the products cooking cycles.</li> <li>The default setting for product compensation is set to four.</li> </ul>
	21. Press the √ (check) button.
	22. Press the Shake 1 Timer button.
NEW RECIPE    00 30	23. Enter the time in minutes and seconds for the first shake to be performed.
	24. Press the √ (check) button.
Ū.	25. Press the down arrow to scroll to more settings.
	26. Press the Shake 2 Timer button if an additional shake is needed, otherwise skip to step 29.



DISPLAY	ACTION
69.44 AM CHOOSE ICON FOR THE RECIPE  64-11-2017  64-12	38. Choose the icon to associate with the product recipe that is being entered or edited.
	39. Press the √ (check) button.
CHOOSE THE MENUS  ALL PECIPEO BREADFAST LUNCH CHANGEOVER  12-17-2014 685Y 08:27 AM TOUCH	40. Choose the menu(s) to associate with the product recipe that is being entered or edited.
	41. Press the √ (check) button.
SAVED	42. The controller displays SAVED.
	43. Press the √ (check) button.
	44. Select another product to edit or press the + key to add additional products. If finished press the home button.
CREW MODE	45. Press the Crew Mode button to return to main screen.
OS-38 AM  CREW MODE  OS-08-2017  OS-08-201	46. Associate the new programmed product to a button by pressing and holding an existing product button. The outline of the product button changes from green to red and then to solid red. Press the new desired product to assign to the button.

#### 1.10 Adding or Editing Menus

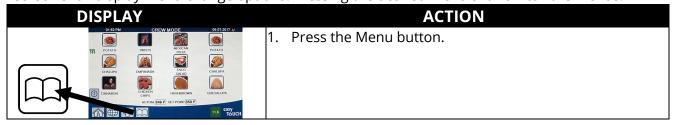
This function is used to add or edit menus. Menus allow the operator to group certain products together. For example, setting up a breakfast menu allows grouping of breakfast only products. This is helpful when switching products by narrowing the number of products to choose from.

DISPLAY ACTION

DISPLAY	ACTION
	1. Press the Home button.
	2. Press the Menus button.
1650	3. Enter <b>1650</b>
<b>√</b>	4. Press the √ (check) button.
MENUS  ALL RICHYS  BIRGAN ACT  LUNCH  COT  COT  COT  COT  COT  COT  COT  C	5. Select a menu by pressing the button above the ON/OFF button to edit products (highlighted in green) or press the + button to add a new menu. If adding a new menu, enter name of menu on next screen and press the √ (check) button. If deleting a menu, highlight the menu and press the trash can at the bottom of the screen.
	6. Press the pencil icon at the bottom of the screen to edit an existing menu.
PRODUCT SELECTION  Q4-11-2017  POTENTS  CINALUPA  CONAUDIN  PRICTS  CHAPANDA  STREPS  MIXEMA  FREZA  CASY  TOUCH	7. Select the desired products by pressing their icons to be added to the chosen menu. The selected products will be highlighted in green. To unselect a product, press the icon and the highlight will change from green to gray.
	8. Press the √ (check) button when finished to save selected products to menu.
<b>\</b>	9. Press the Back button to edit additional menus starting with step 5, otherwise advance to the next step
	10. Press the Home button.
CREW MODE	11. Press the Crew Mode button.

#### **1.11 Changing Menus**

If separate menus are created for Breakfast and Lunch, pressing the MENU button from the main screen shall display menu change options. Pressing the desired menu shall switch the menus.



DISPLAY	ACTION
BREANFIST LIANCH CHANGESFER OF	<ol><li>Press the ON/OFF button under Breakfast or Lunch to switch menus.</li></ol>
BREASTACT LUNCH CHARGESTER OFF	<b>NOTE:</b> Only one menu can be selected at a time.
BREATFICET LINCH CHMISTORIES ON TO CHMISTORIES OF COMMISTORIES	3. Once the desired menu is selected, "ON" is highlighted under the menu.
STAPH  CREW MODE  66/2017 1  WINDS MADEAN  FORATO  TWENTS  MADEAN  FORATO  CHALLEY  LEWINDON  CHALLEY  CHALLEY  CHALLEY  LOCATION  CHALLEY  CHALLEY  CHALLEY  LOCATION  CHALLEY  CHALLE	4. Press the back button to return to the main screen.
POTATO  PRODUCT SELECTION  O4-11-2017  O4-	5. Press the product icon to switch products.
OTAB PAL  CREW MODE  MAGGOTT  WISTO  FOLIATO  TWISTO  FOLIATO  GUESS  GU	6. Display returns to main screen.

#### 1.12 Service Tasks

Covered in this section are crew and manager service tasks used in stores such as E-Log (error log), password setup, and functions to copy menus to and from the fryer from USB using menu connect.

#### 1.12.1 Manager Functions

#### 1.12.1.1 E-Log

The E-LOG function is used to view the ten (10) most recent error codes encountered on the fryer. These codes are displayed with the most recent errors displayed first. The error code, time and date are displayed.

If no errors exist, the controller is blank in this function. Errors are displayed with the side of the error if a split vat, error code, time and date. An error code displaying an "L" indicates left side of a split vat while an "R" indicates right side of a split vat where the error occurred (R E19 06:34AM 04/22/2014). An error code displaying a "G" indicates this was a global error not specifically linked to a particular vat. Error codes are listed in section 3.2.5 of this manual.

DISPLAY	ACTION
	1. Press the Home button.

DISPLAY	ACTION
×	2. Press the Service button.
	3. Press the Manager button.
1656	4. Enter <b>1656</b>
<b>√</b>	5. Press the √ (check) button.
□ E-LOG	6. Press the E-LOG button. The three most recent errors are shown.
$\bigcirc$	7. Press the Down button. The next three errors are shown. Continue pressing the down arrow to view additional errors.
	8. Press the Back button to return to menu or press the Home button to exit.
CREW MODE	9. Press the Crew Mode button.

#### 1.12.1.2 Passcode Setup

The password mode allows a restaurant manager to change passwords for various modes.

DISPLAY	ACTION
	1. Press the Home button.
×	2. Press the Service button.
	3. Press the Manager button.
1656	4. Enter <b>1656</b>
	5. Press the √ (check) button.
□ PASSCODE SETUP	6. Press the PASSCODE SETUP button.
□ MENUS □ RECIPES □ SETTINGS MANAGER □ DIAGNOSTICS MANAGER	7. Select the desired passcode to modify. Use the down arrow to scroll to additional setting.  Defaults are:  MENUS 1650  RECIPES 1650  SETTINGS MANAGER 1656  DIAGNOSTICS MANAGER 1656
1 2 3 4 5 XX 6 7 8 9 0 C	8. Use the keypad to enter new passcode for the selected item.

DISPLAY	ACTION
	9. Press the √ (check) button.
RETYPE PASSWORD	10. Use the keypad to enter the new passcode again to verify.
	11. Press the √ (check) button.
PASSCODE SETUP SUCCESSFUL	12. Press the √ (check) button.
□ MENUS □ RECIPES □ SETTINGS MANAGER □ DIAGNOSTICS MANAGER  □ LIMIT LIM	13. Press the Back button to return to menu or press the Home button to exit.
CREW MODE	14. Press the Crew Mode button.

# 1.12.1.3 USB - Menu Operation

This option allows the ability to upload menus to the controller. This allows products to be created in MenuSync to be saved to a USB drive and uploaded to the fryer.

DISPLAY	ACTION
	1. Press the Home button.
×	2. Press the Service button.
	3. Press the Manager button.
1656	4. Enter <b>1656</b>
	5. Press the √ (check) button.
□ USB - MENU OPERATION	6. Press the USB – MENU OPERATION button.
□ COPY MENU FROM USB TO FRYER	7. Press the COPY MENU FROM USB TO FRYER button.
INSERT USB	8. Insert the USB drive into the connector behind the farleft fryer door.
IS USB INSERTED? YES NO	9. Press YES once the USB drive is inserted.
READING FILE FROM USB PLEASE DO NOT REMOVE USB	10. No action required.
WHILE READING	

DISPLAY	ACTION
UI-UI MENU DATA TRANSFER IN PROGRESS	11. No action required while the file is loading.
MENU UPGRADE IN PROGRESS	12. No action required while the upgrade is in progress.
UPGRADE COMPLETE? YES	13. Press YES.
MENU UPGRADE COMPLETED, REMOVE THE USB AND RESTART THE SYSTEM.	14. Remove the USB drive and power cycle the entire fryer battery using the reset switch behind the far-left fryer door below the USB connector. <b>NOTE: Ensure the switch is pressed and held for at least 30 seconds.</b>

## 1.13 Information Statistics

## **1.13.1** Report Card Statistics

The report card statistics function is used to view a quick report on filtering, OQS, oil quality and frypot utilization.

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
	3. Press the Report Card button.
□ TODAY'S REPORT □ YESTERDAY'S REPORT □ WEEKLY REPORT	4. Select the desired report
Pryer Grade 'A'  FILTRING WHEN PROMPTED  OIL IS GOOD  PRYPOT UTILIZATION OPTIMIZED  90%  Casy TOUCH	5. The report will display the grade based on if the crew is filtering when prompted; if OQS is being measured regularly; the current quality of the oil; and the fryer usage.
	6. Press the back button to return to menu or the home button to exit.

## 1.13.2 Oil Statistics

The oil statistics function is used to view the date of last dispose, the number of cooks since last dispose, filters since last dispose, skipped filters since last dispose, current oil life and average number of cooks over the oil life.

DISPLAY	ACTION
	1. Press the Home button.

DISPLAY	ACTION
?	2. Press the Information button.
	3. Press the Oil button.
<ol> <li>LAST DISPOSE DATE</li> <li>COOKS SINCE LAST DISPOSE</li> <li>FILTERS SINCE LAST DISPOSE</li> <li>SKIPPED FILTERS SINCE LAST DISPOSE</li> </ol>	Press the down arrow to scroll to more statistics.
5. CURRENT OIL LIFE 6. AVERAGE COOKS OVER OIL LIFE 7. DAILY DISPOSE BYPASS COUNT 8. OIL DRAGOUT PER DISPOSE 9. OIL DRAGOUT PER DAY 10. OIL DRAGOUT PER HOUR	5. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

## 1.13.3 Life Statistics

The life statistics function is used to view the commission date of the fryer which is automatically set once the fryer has completed 25 cooks, the serial number of the controller, the total time the fryer has operated in hours and the total heat cycle count of the fryer (the amount of times the controller has turned the heat on/off).

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
<u>_</u>	3. Press the Life Stats button.
<ol> <li>COMMISSION DATE</li> <li>UNIT SERIAL NUMBER</li> <li>CONTROLLER SERIAL NUMBER</li> <li>TOTAL ON TIME (HOURS)</li> <li>TOTAL HEAT CYCLE COUNT</li> <li>TOTAL ENERGY SAVING TIME</li> <li>TOTAL COOK TIME</li> <li>BSP VERSION</li> </ol>	Press the back button to return to menu or the home button to exit.

DISPLAY	ACTION

## 1.13.4 Usage Statistics

The usage statistics displays total cook cycles per vat, number of cook cycles per vat, number of cook cycles exited prior to completion, the number of hours the vat(s) have been on and the date of last usage reset.

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
7	3. Press the Usage Stats button.
<ol> <li>USAGE START DATE</li> <li>TOTAL NUMBER OF COOK CYCLES</li> <li>TOTAL NUMBER OF QUIT COOK CYCLES</li> <li>TOTAL VAT ON TIME (HOURS)</li> </ol>	4. Press the back button to return to menu or the home button to exit.

## 1.13.5 Recovery Time

Recovery is used to determine if the fryer is operating correctly. Recovery is the time required for the fryer to raise the temperature of the oil  $50^{\circ}F$  ( $28^{\circ}C$ ) between  $250^{\circ}F$  ( $121^{\circ}C$ ) and  $300^{\circ}F$  ( $149^{\circ}C$ ). Maximum recovery time should not exceed 1:40 for electric or 3:15 for gas.

DISPLAY	ACTION	
	1. Press the Home button.	
?	2. Press the Information button.	
	3. Press the Recovery button. The time is displayed in minutes and seconds.	
1. LAST RECOVERY TIME	4. Press the back button to return to menu or the home button to exit.	

## 1.13.6 Filter Statistics

The filter statistics function is used to view the number of cooks remaining until the next filter, the number of cooks per vat, the number of filters per vat, the number of skipped or bypassed filters per vat and the average number of cook cycles per filter per day.

ре	per vat and the average number of cook cycles per filter per day.		
	DISPLAY		ACTION
		1.	Press the Home button.
	?	2.	Press the Information button.
		3.	Press the Filter button.
	□ DAY 1 □ DAY 2 □ DAY 3 □ DAY 4	4.	Select and press the desired day. Press the down arrow to scroll back additional days.
2.	DAY AND DATE (Day and date of filter statistics displayed) COOKS REMAINING UNTIL NEXT FILTER (Number of times cooks that remain until the next filter prompt.) DAILY NUMBER OF COOKS (Number of cooks that day) DAILY NUMBER OF FILTERS (Number of times vat filtered that day.)	5.	Press the down arrow to scroll to more statistics.
6. 7.	DAILY NUMBER OF SKIPPED FILTERS (Number of times filter was bypassed that day.)  AVERAGE COOKS PER FILTER - (Average number of cook cycles per filter that day.)  WEEKLY NUMBER OF FILTERS - (Number of times vat filtered in the past week.)  WEEKLY NUMBER OF SKIPPED FILTERS (Number of times filters were bypassed in the past week.)	6.	Press the up arrow to scroll up or the back button to return to select another day.
9.	<b>FILTRATION –</b> (Displays if filtration is enabled or disabled. Diagnostic tool to determine status of FIB board.)		

DISPLAY	ACTION
	7. Press the back button to return to menu or the home button to exit.

## 1.13.7 Software Version

The software version function provides the software versions of the controller and circuit boards in the fryer system; the values of the temperature probe; the values of the AIF RTD probe and the ATO RTD probe and information on any attached gateway.

ATO RTD probe and information on any at	tached gateway.
DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
	3. Press the down arrow button.
11	4. Press Software Version button.
INITIALIZING	5. No action needed.
<ol> <li>UIB SOFTWARE VERSION</li> <li>SIB SOFTWARE VERSION</li> <li>VIB SOFTWARE VERSION</li> <li>FIB SOFTWARE VERSION</li> </ol>	<ol> <li>Press the down arrow to scroll to additional software versions and probe temperatures.</li> <li>NOTE: Split vats will have an SIB2 and left and right vat, AIF, and ATO temperatures.</li> </ol>
<ul> <li>5. OQS SOFTWARE VERSION</li> <li>6. ACTUAL VAT TEMP</li> <li>7. AIF RTD TEMP</li> <li>8. ATO RTD TEMP</li> <li>9. BOARD ID</li> </ul>	7. Press the down arrow to scroll to additional software versions and information.
10. GATEWAY SOFTWARE VERSION 11. GATEWAY IP ADDRESS 12. GATEWAY LINK QUALITY 13. GATEWAY SIGNAL STRENGTH AND NOISE	8. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

# 1.13.8 Reset Usage Statistics

The reset function resets all usage data in the usage statistics.

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
$\Box$	3. Press the down arrow button.
C	4. Press Reset button.
1656	5. Enter <b>1656</b>
	6. Press the √ (check) button.
ALL USAGE DATA HAS BEEN RESET	7. Press the √ (check) button.
	8. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

## 1.13.9 Fresh Oil Statistics

The fresh oil statistics function is used to view information on the current fresh oil.

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
$\Box$	3. Press the down arrow button.
	4. Press the Fresh Oil button.
1. NUMBER OF COOKS SINCE LAST DISPOSE	
2. DISPOSE COUNT COOKS SINCE LAST RESET	5. Press the back button to return to menu or the
3. FRESH OIL COUNTER RESET DATE	home button to exit.
4. FRESH OIL COUNTER	

# 1.13.10 Fresh Oil Reset Usage Statistics

The reset function resets all fresh oil data in the fresh oil statistics.

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
$\Box$	3. Press the down arrow button.
C	4. Press Fresh Oil Reset button.
1656	5. Enter <b>1656</b>
	6. Press the √ (check) button.
FRESH OIL DATA HAS BEEN RESET	7. Press the √ (check) button.
	8. Press the back button to return to menu or the home button to exit.

## 1.13.11 Last Load Statistics

The last load statistics provides data for the last cook cycle.

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
	3. Press the Last Load button.
1. LAST COOKED PRODUCT	
2. LAST LOAD START TIME	
3. LAST LOAD COOK TIME	
4. LAST LOAD PROGRAM TIME	
$\Box$	4. Press the down arrow to scroll to more statistics.
5. LAST LOAD MAX VAT TEMP	
6. LAST LOAD MIN VAT TEMP	5. Press the down arrow to scroll to more statistics.
7. LAST LOAD AVG VAT TEMP	5. Fress the down arrow to scroll to more statistics.
8. % OF COOK TIME, HEAT IS ON	

DISPLAY	ACTION
<b>₽</b>	
9. VAT TEMP BEFORE COOK STARTS	
10. VAT TEMP AT COOKS END	
	6. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

# 1.13.12 TPM (Total Polar Material) Statistics

The TPM statistics provides data from the OQS (Oil Quality Sensor).

DISPLAY	ACTION
	1. Press the Home button.
?	2. Press the Information button.
$\Box$	3. Press the down arrow.
	4. Press the TPM Statistics button. The TPM values for the previous valid thirty (30) days are listed.
	5. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

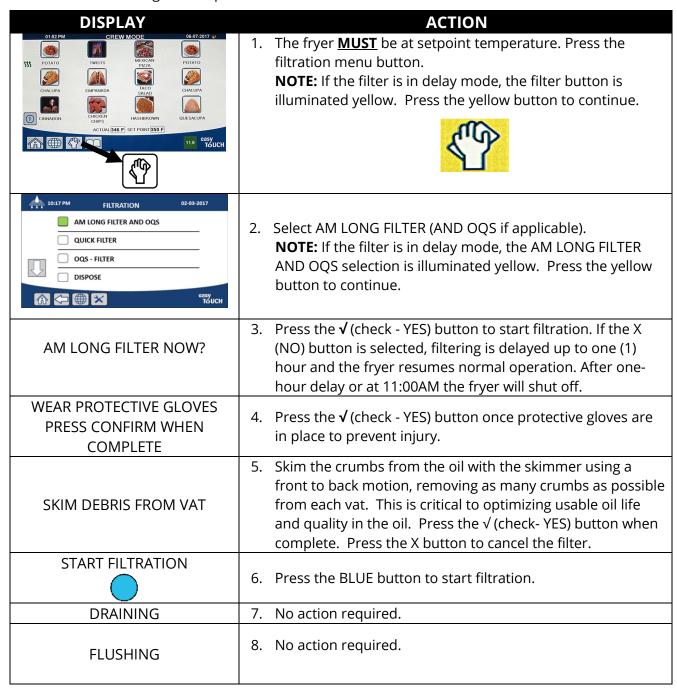
# CHAPTER 2: FILTERQUICK™ FQ4000 TACO BELL FILTRATION MENU FUNCTIONS INSTRUCTIONS

### 2.1 Filtration Menu

The filtration menu selections are used for filtering, draining, filling, disposing and cleaning the vats.

## 2.1.1 AM Long Filter (and OQS [if installed])

AM Long Filter is a function that automatically prompts to filter the frypots each day at 10:00AM or other prescribed time. This function can also be performed on demand as well. **Note**: Simultaneous filtering of multiple vats does not occur.



DISPLAY	ACTION
SCRUB INSIDE VAT	
PRESS CONFIRM WHEN	9. Scrub and clean the debris from the frypot walls. Press the
COMPLETE	√ (check - YES) button when complete.
CLEAN SENSORS – PRESS CONFIRM WHEN	10. ( <b>Gas Only</b> ) Clean the OIB (Oil Is Back) sensor with a no scratch pad (see photo below on the left). ( <b>All Fryers</b> ) Clean around AIF and ATO sensors (see photo below on the right) with a brush, screwdriver or similar object to remove any debris from around the sensors. Press the √ (check) button when complete.
COMPLETE	
FILTERING	11. No action required.
	12. Ensure that all tools are removed from the frypot prior to
ALERT DRAIN CLOSING	the drain closing to prevent damage to the drain.
REMOVE TOOLS	<u></u> DANGER
REIVIOVE TOOLS	Keep <u>ALL</u> items out of drains. Closing actuators may
	cause damage or injury.
FILLING	13. No action required.
MEASURING OIL QUALITY	14. No action required.
FILLING	15. No action required.
WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE	16. This message may appear if the oil doesn't return in a prescribed amount of time. Press the √ (check - YES) button once protective gloves are in place to prevent injury and follow the steps on the display to troubleshoot and return the oil.
11.6 21.1 28.3	<ul> <li>17. If OQS = Text and if TPM reading is below OQS SETUP – DISCARD NOW and DISCARD SOON limits, the TPM value is shown in the green TPM box in lower right corner. Proceed to step 20.</li> <li>If OQS = Text and if TPM reading is below OQS SETUP – DISCARD NOW but above DISCARD SOON limits, the TPM value is shown in the orange TPM box in lower right corner. Proceed to DISCARD SOON in step 17.</li> <li>If OQS = Text and if TPM reading is above OQS SETUP – DISCARD NOW limits; the TPM value is shown in the red TPM box in lower right corner. Proceed to DISCARD NOW in step 19.</li> <li>If OQS = Number proceed to TPM - XX in step 18.</li> </ul>

DISPLAY	ACTION
DISCARD SOON	18. Press the √ (check -YES) button to continue. Skip to step 20.
TPM - XX	19. Press the √ (check - YES) button to continue. If the TPM reading is above OQS SETUP – DISCARD limits, proceed to step 19, otherwise proceed to step 20.
DISCARD NOW?	20. Press the √ (check -YES) button to continue. Proceed to DISPOSE in section 2.1.4/5. Press X (NO) to delay the DISPOSE.
PREHEAT	21. No action required as the fryer heats to setpoint.
O1:32 PM  CREW MODE  06:07:3917 V  SSS POTATO  TWISTS  MEXICAN POTATO  POTATO  POTATO  CHALUPA  EMPANADA  TACO SALAD  CHALUPA  CHICKEN  HASHBROWN  QUESALUPA  ACTUAL 346 F SET POINT 350 F  CONSTRUCT  CHALUPA  ACTUAL 346 F SET POINT 350 F  CONSTRUCT  CONS	22. Fryer is ready for use. Displayed once fryer reaches setpoint.

**NOTE:** If the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function.

**NOTE:** If the filter pan is removed during filtration, the filtration process stops and resumes once pan is reseated into place.

## **A** DANGER

Keep **ALL** items out of drains. Closing actuators may cause damage or injury.

Should the quick filtration procedure fail, an error message is generated. Follow the instructions on the controller to clear the error.

When FILTER BUSY is displayed, the system is waiting on another vat to be filtered or waiting on another issue to clear. Press the  $\sqrt{\text{check - YES}}$  button and wait 15 minutes to see if problem is corrected. If not, call your local FAS.

# **A** DANGER

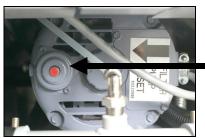
<u>DO NOT</u> drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.

# **MARNING**

The filter motor is equipped with a manual reset switch in case the filter motor overheats, or an electrical fault occurs. If this switch trips, turn off power to the filter system and allow the pump motor to cool 20 minutes before attempting to reset the switch (see on the next page)

# **MARNING**

Use caution and wear appropriate safety equipment when resetting the filter motor reset switch. Resetting the switch must be accomplished with care to avoid the possibility of a serious burn from careless maneuvering around the drain tube and frypot.



**Filter Motor Reset Switch** 

## 2.1.2 Quick Filter - Filter Prompt

Quick Filter is a feature that, after a number of preset cook cycles or time, will automatically prompt to filter the frypots. This function can also be performed on demand as well and is covered in the next section. **Note**: Simultaneous filtering of multiple vats does not occur.

DISPLAY	ACTION
FILTRATION REQUIRED  QUICK FILTER NOW?	1. Press the √ (check - YES) button to start filtration. If the X (NO) button is selected, filtering is cancelled, and the fryer resumes normal operation. The filtration button changes to yellow on the first bypass and the QUICK FILTER is highlighted in yellow in the filter menu. On the second bypass, the filtration button changes to red. The controller will prompt again soon to filter the oil. This sequence repeats until a filter is completed. Pressing the filter button when the color has changed will allow a filter to be started.
OIL LEVEL TOO LOW	<ol> <li>Displayed if the oil level is too low. Press the √ (check - YES) button to acknowledge issue and return to idle cook mode.         Check to see if the JIB is low on oil. If JIB is not low and this continues to occur, contact your FAS.     </li> </ol>
WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE	3. Press the <b>√</b> (check - YES) button once protective gloves are in place to prevent injury.
SKIM DEBRIS FROM VAT	4. Skim the crumbs from the oil with the skimmer using a front to back motion, removing as many crumbs as possible from each vat. This is critical to optimizing usable oil life and quality in the oil. Press the √ (check- YES) button when complete. Press the X button to cancel the filter.
START FILTRATION	5. Press the BLUE button to start filtration or the X button to cancel the filter.
DRAINING	6. No action required.
FLUSHING	7. No action required.

DISPLAY	ACTION
ALERT DRAIN CLOSING REMOVE TOOLS	8. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  DANGER  Keep all items out of drains. Closing actuators may cause damage or injury.
FILLING	9. No action required.
PREHEAT	10. No action required. Displayed until the fryer reaches setpoint.
O152 PM  CREW MODE  86-07-2917 A  WESCAN POTATO POT	11. Fryer is ready for use. Displayed once fryer reaches setpoint.

The complete filtering process takes approximately four minutes with a clean filter.

**NOTE:** If the filter pan is removed during filtration, the filtration process stops and resumes once pan is reseated into place.

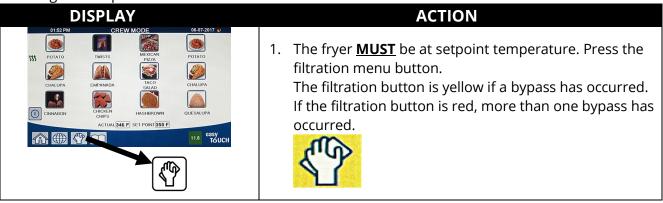
Should the quick filtration procedure fail or if <u>ALL</u> the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function. In some cases, an error message may be generated. Follow the instructions on the controller to clear the error, complete the filter and return <u>ALL</u> the oil.

## **A** DANGER

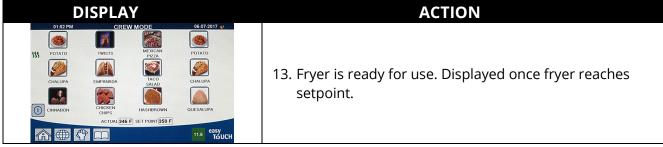
Keep all items out of drains. Closing actuators may cause damage or injury.

## 2.1.3 Quick Filter on Demand

Quick Filter on demand filtration is used to manually start a quick filter. **Note**: Simultaneous filtering of multiple vats cannot occur.



DISPLAY	ACTION
10:17 PM FILTRATION 02-03-2017  AM LONG FILTER AND OQS  QUICK FILTER  OQS - FILTER	Select QUICK FILTER. QUICK FILTER is highlighted in yellow in the filter menu if a bypass has occurred.
DISPOSE  Casy Touch	3. Press the √ (check - YES) button to start filtration. If the
QUICK FILTER NOW?	X (NO) button is selected, filtering is cancelled, and the fryer resumes normal operation. The filtration button changes to yellow on the first bypass and the QUICK FILTER is highlighted in yellow in the filter menu. On the second bypass, the filtration button changes to red. The controller will prompt again soon to filter the oil. This sequence repeats until a filter is completed. Pressing the filter button when the color has changed will allow a filter to be started.
OIL LEVEL TOO LOW	4. Displayed if the oil level is too low. Press the √ (check - YES) button to acknowledge issue and return to idle cook mode. Check to see if the JIB is low on oil. If JIB is not low and this continues to occur, contact your FAS.
WEAR PROTECTIVE GLOVES	5. Press the √ (check - YES) button once protective gloves
PRESS CONFIRM WHEN COMPLETE  SKIM DEBRIS FROM VAT	<ul> <li>are in place to prevent injury.</li> <li>6. Skim the crumbs from the oil with the skimmer using a front to back motion, removing as many crumbs as possible from each vat. This is critical to optimizing usable oil life and quality in the oil. Press the √ (check-YES) button when complete. Press the X button to cancel the filter.</li> </ul>
START FILTRATION	7. Press the BLUE button to start filtration or the X button to cancel the filter.
DRAINING	8. No action required as oil drains into filter pan.
FLUSHING	9. No action required as debris is flushed from the vat.
ALERT DRAIN CLOSING REMOVE TOOLS	10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  DANGER  Keep all items out of drains. Closing actuators may cause damage or injury.
FILLING	11. No action required as the vat refills.
PREHEAT	12. No action required as the fryer heats to setpoint.



The complete filtering process takes approximately four minutes with a clean filter.

**NOTE:** If the filter pan is removed during filtration, the filtration process stops and resumes once pan is reseated into place.

Should the quick filtration procedure fail or if <u>ALL</u> the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function. In some cases, an error message may be generated. Follow the instructions on the controller to clear the error, complete the filter and return **ALL** the oil.

When FILTER BUSY is displayed, the system is waiting on another vat to be filtered or waiting on another issue to clear. Press the  $\sqrt{\text{(check - YES)}}$  button and wait 15 minutes to see if problem is corrected. If not, call your local FAS.

#### **⚠** DANGER

Do not drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.

## 2.1.4 OQS (Oil Quality Sensor) Filter

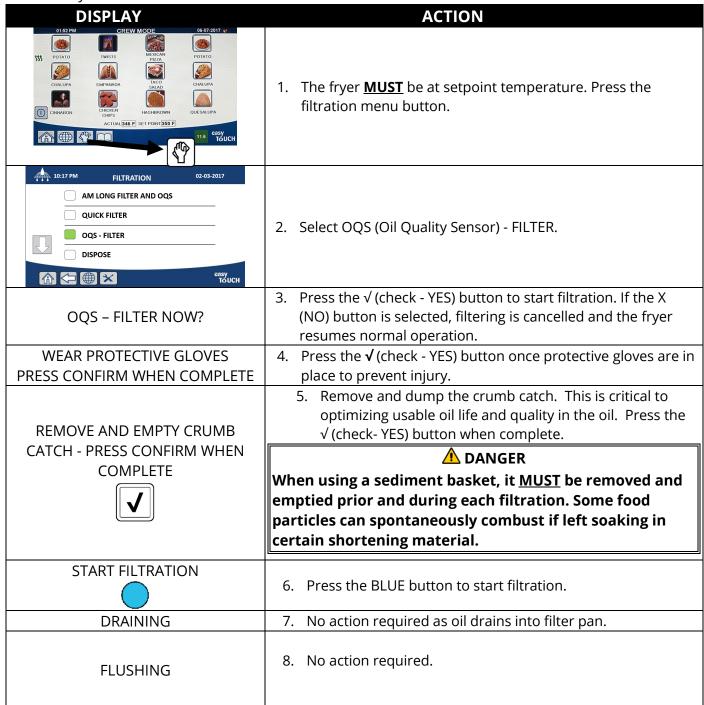
The OQS filter is a function that filters the vat that takes an oil reading to test the TPM (Total Polar Materials) in the oil using the built in OQS sensor. This function is used to determine when the oil has reached the end of its life and when to dispose. Ensure that the filter pad or paper is replaced daily to keep the system operating correctly. For proper operation in high volume or 24-hour stores, the filter pad or paper must be changed twice a day.

#### **NOTICE**

The filter pad or paper <u>MUST</u> be replaced daily.

#### **⚠** WARNING

<u>DO NOT</u> drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.

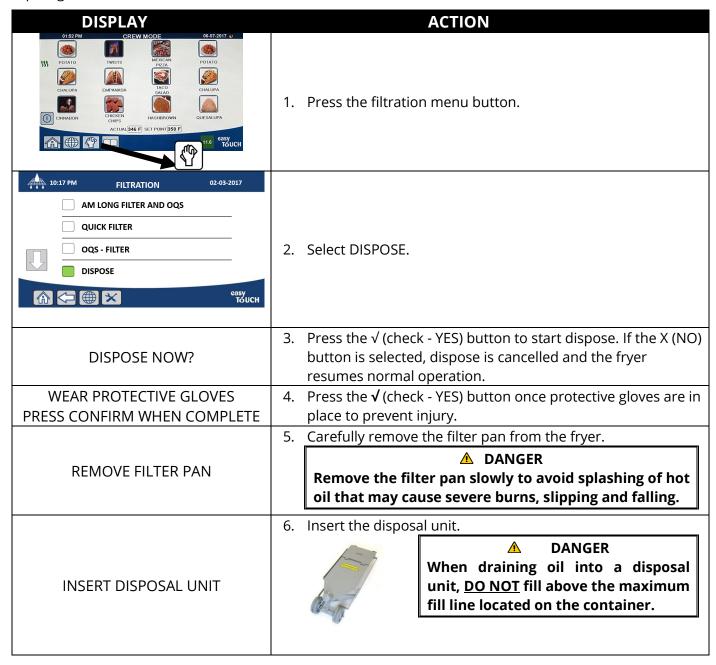


DISPLAY	ACTION
DISI EAT	9. Ensure that all tools are removed from the frypot prior to
ALERT DRAIN CLOSING REMOVE	the drain closing to prevent damage to the drain.
	<b>⚠</b> DANGER
TOOLS	Keep <u>ALL</u> items out of drains. Closing actuators may
	cause damage or injury.
FILLING	10. No action required while the vat is refilled.
	11. No action required while the OQS sensor calculates the oil
MEASURING OIL QUALITY	quality value of the oil.
FILLING	12. No action required.
WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE	13. This message may appear if the oil doesn't return in a prescribed amount of time. Press the √ (check - YES) button once protective gloves are in place to prevent injury and follow the steps on the display to troubleshoot and return the oil.
11.6 21.1	14. If OQS = Text and if TPM reading is below OQS SETUP – DISCARD NOW and DISCARD SOON limits, the TPM value is shown in the green TPM box in lower right corner. Proceed to step 18.  If OQS = Text and if TPM reading is below OQS SETUP – DISCARD NOW but above DISCARD SOON limits, the TPM
28.3	value is shown in the orange TPM box in lower right corner. Proceed to DISCARD SOON in step 15.  If OQS = Text and if TPM reading is above OQS SETUP – DISCARD NOW limits; the TPM value is shown in the red TPM box in lower right corner. Proceed to DISCARD NOW in step 17.  If OQS = Number proceed to TPM - XX in step 16.
DISCARD SOON	
<b>\</b>	15. Press the √ (check -YES) button to continue. Skip to step 18
TPM - XX	16. Press the √ (check - YES) button to continue. If the TPM reading is above OQS SETUP – DISCARD limits, proceed to step 17, otherwise proceed to step 18.
DISCARD NOW	17. Press the √ (check -YES) button to continue. Proceed to DISPOSE in section 2.1.4/5. Press X (NO) to delay the DISPOSE.
PREHEAT	18. No action required as the fryer heats to setpoint.
OT 1.32 PM  OREW MODE  86-07-2017  TWISTS  POTATO  TWISTS  POTATO  POT	<ul><li>19. Fryer is ready for use. Displayed once fryer reaches setpoint.</li><li>NOTE: If the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function.</li></ul>

## 2.1.5 Dispose for Non-Bulk Oil Systems / Fill from JIB

This option is used to dispose of old oil into either an ODC, SDU or a **METAL** container.

When cooking oil is exhausted, dispose the oil into an appropriate container for transport to the waste oil container. Frymaster recommends an Oil Disposal Caddy (ODC), Shortening Disposal Unit (SDU). Refer to the documentation furnished with your disposal unit for specific operating instructions. **NOTE:** If using an SDU built prior to January 2004 the unit will not fit under the drain. If a shortening disposal unit is not available, allow the oil to cool to 100°F (38°C), then drain the oil into a **METAL** container with a capacity of FOUR gallons (15 liters) or larger to prevent oil from spilling.



DISPLAY	ACTION
	7. Ensure the ODC, SDU or a METAL container with a capacity of FOUR gallons (15 liters) or larger is in place. Press the √ (check - YES) button to continue.
	⚠ DANGER Allow oil to cool to 100°F (38°C) before draining into an appropriate METAL container for disposal.
IS DISPOSE UNIT IN PLACE?	⚠ DANGER  When draining oil into a disposal unit, <u>DO NOT</u> fill above the maximum fill line located on the container.
	⚠ DANGER  When draining oil into an appropriate ODC, SDU or METAL container, make sure the container will hold at least FOUR gallons (15 liters) or more. Otherwise oil could overflow and can cause injury.
START DISPOSE	8. Press the BLUE button to start draining.
DISPOSING	No action is required while the vat disposes the oil.
VAT EMPTY?	10. Once the vat is empty, press the √ (check - YES) button to continue.
CLEAN VAT COMPLETE?	11. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.
	12. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.
ALERT DRAIN CLOSING REMOVE TOOLS	⚠ DANGER  Keep <u>ALL</u> items out of drains. Closing actuators may cause damage or injury.
REMOVE DISPOSAL UNIT?	13. Remove the disposal unit and press the √ (check - YES) button to continue.
INSERT PAN	14. Insert the clean and assembled filter pan into place.
MANUALLY FILL VAT	15. Carefully pour oil into the vat until it reaches the low-level fill line in the fryer. Press the √ (check - YES) button once the vat is full.
	16. The controller switches off.

# 2.1.6 Dispose for Bulk Oil Waste Systems

This option is used to dispose of old oil into a bulk waste oil system. Bulk oil systems use a pump to move exhausted oil from the fryer to a holding tank. Additional plumbing is used to connect the bulk oil systems to the fryers.

#### **⚠** WARNING

Ensure filter paper or pad is in place prior to draining or disposing of oil. Failure to insert filter paper or pad may result in clogged lines and/or pumps.

DISPLAY  1. Press the filtration menu button.  2. Select DISPOSE.  3. Press the √ (check - YES) button to continue. If the X (NO) button is selected, dispose is cancelled and the fryer resumes normal operation.  WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE  START DISPOSE  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  No action required as oil drains into filter pan.  8. Once the vat is empty, press the √ (check - YES) button to continue.  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  ALERT DRAIN CLOSING REMOVE TOOLS	bulk oil systems to the myers.	
1. Press the filtration menu button.  1. Press the filtration menu button.  2. Select DISPOSE.  3. Press the √ (check - YES) button to continue. If the X (NO) button is selected, dispose is cancelled and the fryer resumes normal operation.  4. Press the √ (check - YES) button once protective gloves are in place to prevent injury.  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  DRAINING  7. No action required as oil drains into filter pan.  8. Once the vat is empty, press the √ (check - YES) button to continue.  CLEAN VAT COMPLETE?  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  **DANGER**  Keep ALL items out of drains. Closing actuators may		ACTION
AM LONG FILTER AND OOS  OOS-FILTER  OOS-FILTER  OSPOSE  3. Press the √ (check - YES) button to continue. If the X (NO) button is selected, dispose is cancelled and the fryer resumes normal operation.  WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE  START DISPOSE  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  DRAINING  VAT EMPTY?  CLEAN VAT COMPLETE?  ALERT DRAIN CLOSING REMOVE TOOLS  To AND ACTION The With a scrub brush and when complete press the √ (check - YES) button to continue.  Learn DRAIN CLOSING REMOVE TOOLS  A. Press the √ (check - YES) button to start draining.  4. Press the √ (check - YES) button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  ONCE the vat is empty, press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  A. Press the √ (check - YES) button to continue.  2. Select DISPOSE.  3. Press the √ (check - YES) button once protective gloves are in place to prevent injury.  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  7. No action required as oil drains into filter pan.  8. Once the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  PADANGER  Keep ALL items out of drains. Closing actuators may	POTATO  ITWISTS  MEXICAN POTATO  POTATO  POTATO  FINANCIA  POTATO  FINANCIA  POTATO  FINANCIA  FORMANION  FINANCIA  FORMANION  FINANCIA  FORMANION  FINANCIA  FORMANION  CHALUPA  ACTUAL \$46 FI SET PORNI \$50 FI  ACTUAL \$46 FI SET PORNI \$50 FI  FINANCIA  FINANCIA  MASHEROWN  QUESALUPA	1. Press the filtration menu button.
DISPOSE NOW?  button is selected, dispose is cancelled and the fryer resumes normal operation.  WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE  START DISPOSE  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  DRAINING  VAT EMPTY?  CLEAN VAT COMPLETE?  button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  7. No action required as oil drains into filter pan.  8. Once the vat is empty, press the √ (check - YES) button to continue.  CLEAN VAT COMPLETE?  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  PANGER  Keep ALL items out of drains. Closing actuators may	AM LONG FILTER AND OQS  QUICK FILTER  OQS - FILTER  DISPOSE	2. Select DISPOSE.
DISPOSE NOW?  button is selected, dispose is cancelled and the fryer resumes normal operation.  WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE  START DISPOSE  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  DRAINING  VAT EMPTY?  CLEAN VAT COMPLETE?  button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  7. No action required as oil drains into filter pan.  8. Once the vat is empty, press the √ (check - YES) button to continue.  CLEAN VAT COMPLETE?  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  PANGER  Keep ALL items out of drains. Closing actuators may		3. Press the √ (check - YES) button to continue. If the X (NO)
resumes normal operation.  WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE  START DISPOSE  START DISPOSE  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  DRAINING  7. No action required as oil drains into filter pan.  VAT EMPTY?  8. Once the vat is empty, press the √ (check - YES) button to continue.  CLEAN VAT COMPLETE?  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  Keep ALL items out of drains. Closing actuators may	DISPOSE NOW?	
WEAR PROTECTIVE GLOVES PRESS CONFIRM WHEN COMPLETE  START DISPOSE  START DISPOSE	5.5. 552 1.6.1.1	•
PRESS CONFIRM WHEN COMPLETE  START DISPOSE  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  DRAINING  7. No action required as oil drains into filter pan.  8. Once the vat is empty, press the √ (check - YES) button to continue.  CLEAN VAT COMPLETE?  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  Keep ALL items out of drains. Closing actuators may	WEAR PROTECTIVE GLOVES	·
START DISPOSE  5. Press the BLUE button to start draining.  6. This message is only displayed if the bull tank is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  DRAINING  7. No action required as oil drains into filter pan.  8. Once the vat is empty, press the √ (check - YES) button to continue.  CLEAN VAT COMPLETE?  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  Keep ALL items out of drains. Closing actuators may		
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BULK TANK FULL?  the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.  7. No action required as oil drains into filter pan.  8. Once the vat is empty, press the √ (check - YES) button to continue.  CLEAN VAT COMPLETE?  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  Keep ALL items out of drains. Closing actuators may	START DISPOSE	5. Press the BLUE button to start draining.
8. Once the vat is empty, press the √ (check - YES) button to continue.  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  12. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE Keep ALL items out of drains. Closing actuators may	BULK TANK FULL?	the √ (check - YES) button to acknowledge and call the bulk
CLEAN VAT COMPLETE?  9. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  Continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  Keep ALL items out of drains. Closing actuators may	DRAINING	7. No action required as oil drains into filter pan.
the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  the √ (check - YES) button to continue.  10. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  Keep ALL items out of drains. Closing actuators may	VAT EMPTY?	· · ·
the drain closing to prevent damage to the drain.  ALERT DRAIN CLOSING REMOVE TOOLS  the drain closing to prevent damage to the drain.  DANGER  Keep ALL items out of drains. Closing actuators may	CLEAN VAT COMPLETE?	· '
TOOLS Keep ALL items out of drains. Closing actuators may		the drain closing to prevent damage to the drain.
<b>Ⅲ</b> •	ALERT DRAIN CLOSING REMOVE	<u></u> DANGER
<b>Ⅲ</b> •	TOOLS	Keep <u>ALL</u> items out of drains. Closing actuators may

DISPLAY	ACTION
OPEN DISPOSE VALVE	11. Open the left cabinet door and unlock the valve if necessary. Pull the dispose valve completely forward to start disposal.
DISPOSING	<ul><li>12. No action is required while the pump transfers the waste oil from the pan to the bulk oil waste tanks for four (4) minutes.</li><li>13. Carefully pull the filter pan from the fryer.</li></ul>
REMOVE PAN	DANGER  Open the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS PAN EMPTY?	14. If the filter pan is empty press the √ (check - YES) button. If the pan is not empty, press the X (NO) button and return to step 12.
INSERT PAN	15. Insert the filter pan.
CLOSE DISPOSE VALVE	16. Close the dispose valve by pushing the valve handle toward the rear of the fryer until it stops. Relock the valve if required by your manager.  If using a JIB fresh oil system skip to step 21. If using a bulk fresh oil system type, continue to next step.
FILL VAT FROM BULK?	17. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu.
START FILLING? PRESS AND HOLD	18. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps while the switch is depressed.
RELEASE BUTTON WHEN FULL	19. Release the button when the vat is filled to the lower fill line.
CONTINUE FILLING?	20. Press the √ (check - YES) button to continue filling. Otherwise press the X (NO) button once the vat is full, to exit and continue to step 21.
MANUALLY FILL VAT	21. Carefully pour oil into the vat until it reaches the low-level fill line in the fryer. Press the √ (check - YES) button once the vat is full.
	22. The controller switches off.

# 2.1.7 Fill Vat from (Filter) Pan

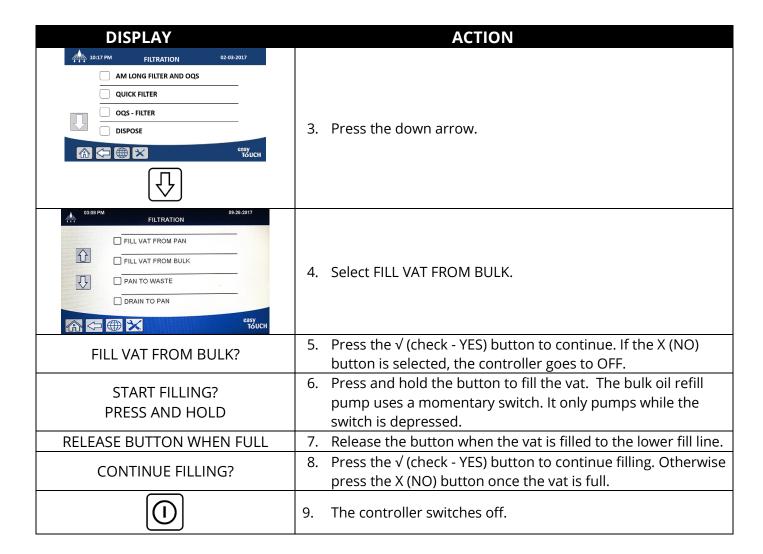
The fill vat from pan function fills the vat from the filter pan.

DISPLAY	ACTION
	1. The fryer <b>MUST</b> be OFF.
	2. Press the filtration menu button
10:17 PM FILTRATION 02-03-2017  AM LONG FILTER AND OQS  QUICK FILTER  OQS - FILTER  DISPOSE  Casy Touch	3. Press the down arrow.
FILL VAT FROM PAN  FILL VAT FROM BULK  PAN TO WASTE  DRAIN TO PAN	4. Select FILL VAT FROM PAN.  If no pan is detected, the controller displays INSERT PAN until the pan is detected.
FILL FROM PAN?	5. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the controller goes to OFF. If no pan is detected, the controller displays INSERT PAN until the filter pan is detected.
FILLING	6. No action is required while the vat is filling.
IS FRYPOT FULL OF OIL?	7. Press the X (NO) button to run the pump again if the oil level is below the top oil level full line. Press the √ (check - YES) button once the vat is full and to return to OFF.
	8. The controller switches off.

# 2.1.8 Fill Vat from Bulk (Bulk Only)

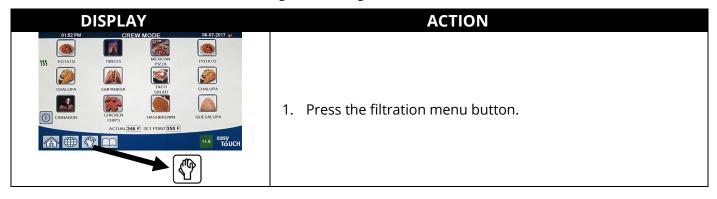
The fill vat from bulk function is used to fill the vat from a bulk oil fresh source.

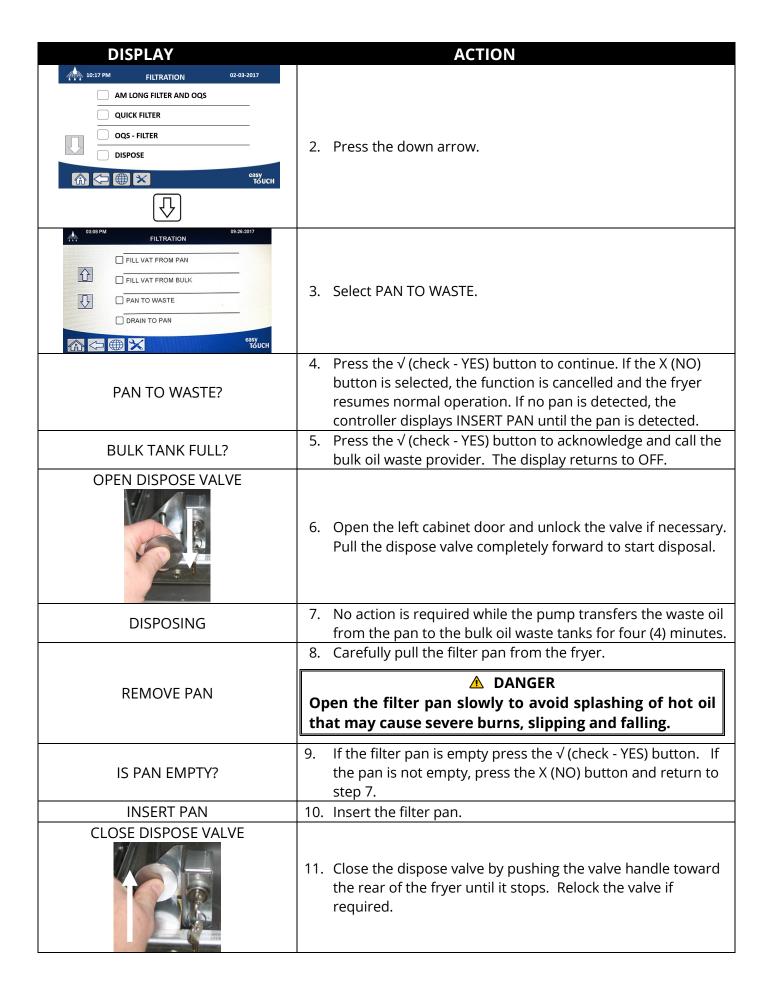
DISPLAY	ACTION
<u>(1)</u>	1. The fryer <u>MUST</u> be OFF.
	2. Press the filtration menu button



## 2.1.9 Pan to Waste (Bulk Only)

The pan to waste function is an option that allows bulk oil systems to pump excess oil in the pan, to the bulk oil waste tanks, without draining the existing oil in the vat.

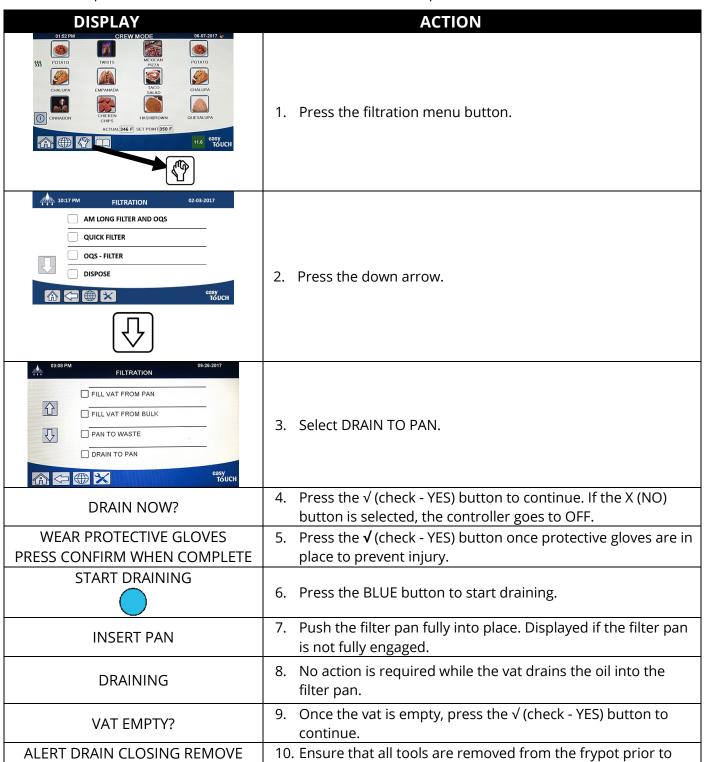




DISPLAY	ACTION
<u> </u>	12. The controller switches off.

#### 2.1.10 Drain to Pan

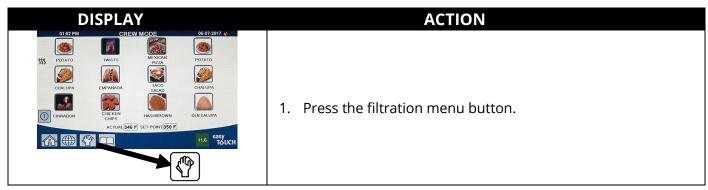
The drain to pan function drains the oil from the vat to the filter pan.

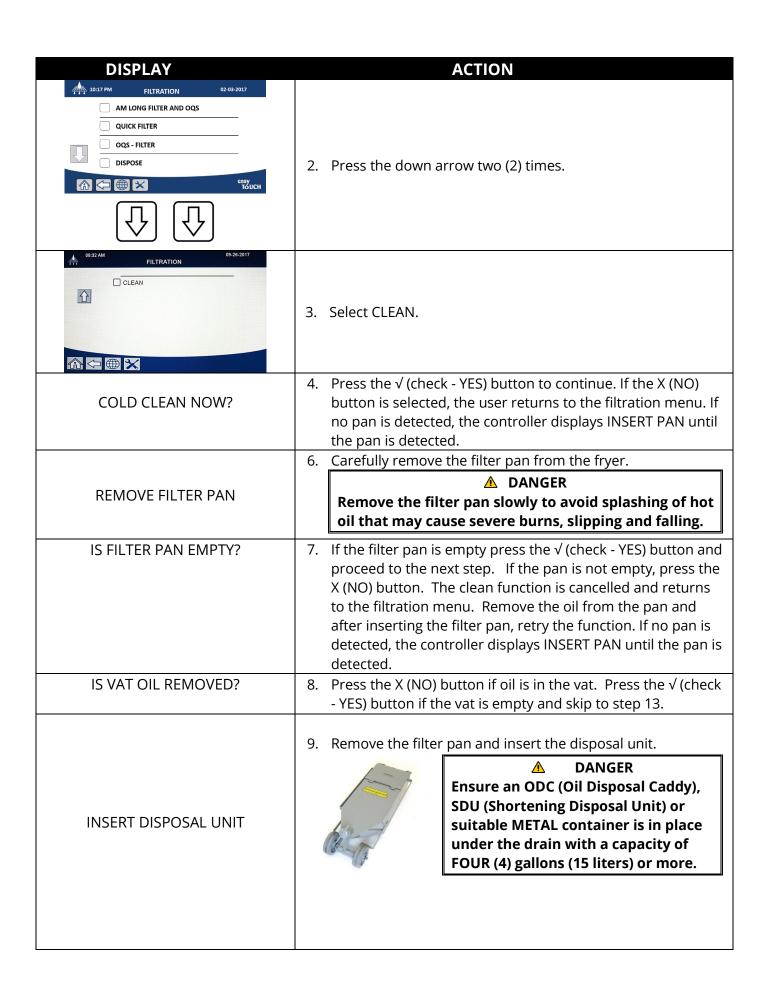


DISPLAY	ACTION
TOOLS	the drain closing to prevent damage to the drain.
	<u></u> DANGER
	Keep <u>ALL</u> items out of drains. Closing actuators may
	cause damage or injury.
FILL FROM PAN?	11. Press the √ (check - YES) button to refill the vat, otherwise
FILL PROW PAIN?	skip to step 15. If bulk skip to step 14.
FILLING	12. No action is required while the vat is filling.
IS FRYPOT FULL OF OIL?	13. Press the X (NO) button to run the pump again if the oil level is below the top oil level full line and return to previous step. Press the √ (check - YES) button once the vat is full and skip to step 18 to return to OFF.
PAN TO WASTE?	14. Press the √ (check - YES) button to dispose of the oil to the bulk oil waste tanks. Skip to section 2.1.8 PAN TO WASTE step 4. Otherwise skip to step 15.
	15. Carefully pull the filter pan from the fryer.
REMOVE PAN	
IS PAN EMPTY?	16. <b>NOTE</b> : A small quantity of oil may remain in the pan after refilling. If the filter pan is empty press the √ (check - YES) button and continue to next step. If the pan is not empty, press the X (NO) button and return to FILL FROM PAN? in step 11. If the pan is not empty and the fryer is using a bulk oil system, press the X (NO) button and continue to step 17.
INSERT PAN	17. Insert the filter pan.
	18. The controller switches off.

# 2.1.11 Clean for Non-Bulk Oil Systems

The clean mode is used to remove carbonized oil from the frypot.





DICRLAY	ACTION
DISPLAY	ACTION  10. Ensure the ODC, SDU or a METAL container with a capacity of FOUR (4) gallons (15 liters) or larger is in place. Press the √ (check - YES) button to continue.  ⚠ DANGER  Allow oil to cool to 100°F (38°C) before draining into an appropriate METAL container for disposal.
IS DISPOSE UNIT IN PLACE?	⚠ DANGER  When draining oil into a disposal unit, do not fill above the maximum fill line located on the container.
DRAINING	11. No action is required while the vat drains the oil into the disposal container.
VAT EMPTY?	12. Once the vat is empty, press the √ (check - YES) button to continue.
SOLUTION ADDED?	13. Fill the vat to be cleaned with water and cleaning solution mix. Press the √ (check - YES) button to start the cleaning procedure.
COLD CLEAN	14. Scrub the vat and then let the solution soak while the cold clean counts down.
COLD CLEAN DONE	15. Press the √ (check - YES) button to silence the alarm.
CLEANING COMPLETE?	16. Press the √ (check - YES) button once the vat is scrubbed.
INSERT PAN	17. Insert the filter pan.
DRAINING	18. No action is required while the vat drains.
RINSE COMPLETE?	19. Rinse excess solution from vat. Press the √ (check - YES) button when the vat is completely rinsed.
REMOVE PAN	20. Remove the filter pan.
VAT AND PAN DRY?	21. Ensure the vat and filter pan are clean and completely dry.  Reassemble the filter pan with filter pan components and filter paper/pad. Press the √ (check - YES) button when finished.  DANGER  Ensure that the frypot and filter pan are completely dry and free of water before filling with oil. Failure to do so will cause splattering of hot liquid when the oil is heated to cooking temperature.

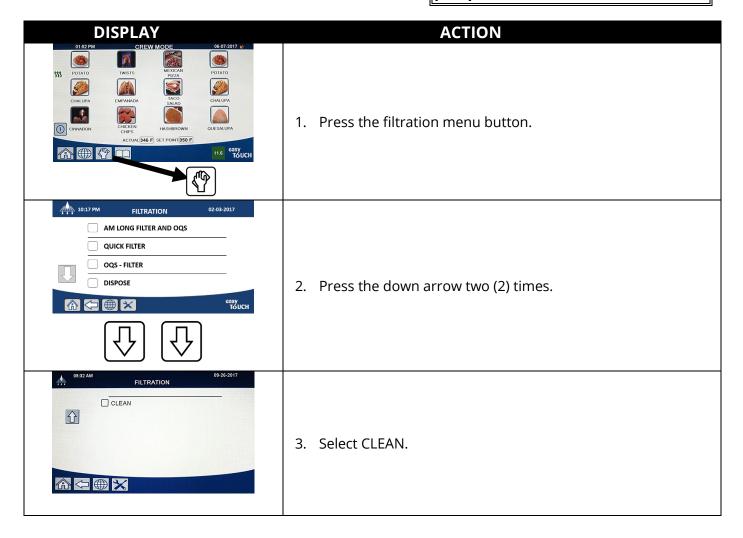
DISPLAY	ACTION
ALERT DRAIN CLOSING REMOVE TOOLS	22. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  DANGER  Keep all items out of drains. Closing actuators may cause damage or injury.
INSERT PAN	23. Insert the filter pan into the fryer.
MANUALLY FILL VAT	24. Carefully pour oil into the vat until it reaches the low-level fill line in the fryer. Press the √ (check - YES) button once the vat is full.
(I)	25. The controller switches off.

# 2.1.12 Clean for Bulk Dispose Waste Oil Systems

The clean mode is used to remove carbonized oil from the frypot.

#### **▲ WARNING**

Ensure filter paper or pad is in place prior to draining or disposing of oil. Failure to insert filter paper or pad may result in clogged lines and/or pumps.



DISPLAY	ACTION
COLD CLEAN NOW?	4. Press the √ (check - YES) button to continue. If the X (NO)
COLD CLLAN NOW:	button is selected, the user returns to the filtration menu.
	<ol> <li>Press the √ (check - YES) button to save the oil and continue.</li> </ol>
SAVING OIL?	Press the X (NO) button if disposing the oil and proceed to
SAVING OIL:	step 10.
	6. Carefully pull the filter pan from the fryer.
	<b>△</b> DANGER
REMOVE FILTER PAN	Remove the filter pan slowly to avoid splashing of hot
	oil that may cause severe burns, slipping and falling.
	7. If the filter pan is empty press the √ (check - YES) button and
IS FILTER PAN EMPTY?	proceed to the next step. If the pan is not empty, press the
ISTILITENT AIN LIVII TT:	X (NO) button and go to the next step.
	8. Remove the oil from the pan and press the √ (check - YES)
EMPTY FILTER PAN	button after inserting the filter pan, retry the function.
INISERT BANK	9. Push the filter pan fully into place. Displayed if the filter pan
INSERT PAN	is not fully engaged.
	10. This message is only displayed if the bulk tank on bulk waste
BULK TANK FULL?	systems is full. Press the √ (check - YES) button to
BOLK TAINK FOLL?	acknowledge and call the bulk oil waste provider. The
	display returns to OFF.
IS VAT OIL REMOVED?	11. Press the X (NO) button if oil is in the vat. Press the √ (check
	- YES) button if the vat is empty and skip to step 23.
DRAINING	12. No action required as oil drains into filter pan.
IS EDVE OF EMPTYS	13. Once the frypot is empty, press the √ (check - YES) button to
IS FRYPOT EMPTY?	continue.
	If disposing to bulk skip to step 16.
CLEAN VAT COMPLETE?	14. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.
	15. Carefully pull the filter pan from the fryer and proceed to
	step 23.
REMOVE FILTER PAN	△ DANGER
REMOVE FILTER PAIN	Remove the filter pan slowly to avoid splashing of hot
	oil that may cause severe burns, slipping and falling.
	7 11 5 5
ODENI DISPOSE VALVE	
OPEN DISPOSE VALVE	
	16. Open the left cabinet door and unlock the valve if necessary.
	Pull the dispose valve completely forward to start disposal.

DISPLAY	ACTION
DISPOSING CLOSE DISPOSE VALVE	
WHEN FULL	17. No action is required while the pump transfers the waste oil from the pan to the front dispose container. Close the dispose valve when full by pushing the valve handle toward the rear of the fryer until it stops. Relock the valve if required. Skip to step 19.
DISPOSING	18. No action is required while the pump transfers the waste oil from the pan to the bulk oil waste tanks for four (4) minutes.
	19. Carefully pull the filter pan from the fryer.
REMOVE PAN	⚠ DANGER Open the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS PAN EMPTY?	20. If the filter pan is empty press the √ (check - YES) button. If the pan is not empty, press the X (NO) button; insert the filter pan and return to step 13.
INSERT PAN	21. Insert the filter pan. If disposing to bulk continue to next step.
CLOSE DISPOSE VALVE	22. Close the dispose valve by pushing the valve handle toward the rear of the fryer until it stops. Relock the valve if required by your manager.
SOLUTION ADDED?	23. Fill the vat to be cleaned with water and cleaning solution mix. Press the √ (check – YES) button to start the cleaning procedure.
CLEANING	24. Scrub the vat and then let the solution soak while the cold clean timer counts down for one hour.
CLEAN DONE	25. Press the √ (check - YES) button to silence the alarm.
IS CLEANING DISPOSAL UNIT IN PLACE?	26. Press the √ (check - YES) button once the cleaning disposal unit is in place.
DRAINING	27. No action is required while the vat drains.
RINSE COMPLETE?	28. Rinse excess solution from vat. Press the √ (check - YES) button when the vat is completely rinsed.
IS SOLUTION REMOVED?	29. Press the √ (check - YES) button once the solution is removed.

DISDLAY	ACTION
DISPLAY	ACTION  30. Ensure that all tools are removed from the frypot prior to
	the drain closing to prevent damage to the drain.
ALERT DRAIN CLOSING REMOVE	
TOOLS	<b>△</b> DANGER
	Keep all items out of drains. Closing actuators may
	cause damage or injury.
REMOVE THE CLEANING SOLUTION	31. Press the √ (check - YES) button once the cleaning solution
UNIT	unit is removed.
	32. Ensure the frypot is completely dry and press the √ (check -
	YES) button when finished.
	<u> </u>
IS FRYPOT DRY?	Ensure that the frypot is completely dry and free of
	water before filling with oil. Failure to do so will cause splattering of hot liquid when the oil is heated
	to cooking temperature.
RETURN SAVED OIL?	33. Press the √ (check - YES) button to return saved oil.
INSERT FILTER PAN	34. Insert the filter pan.
FILL FRYPOT FROM PAN	35. Press the √ (check - YES) button to fill the frypot.
FILLING	36. No action is required while the vat is filling.
15 50/007 5/1/1 05 0/10	37. Press the X (NO) button to run the pump again if the oil level
IS FRYPOT FULL OF OIL?	is below the top oil level full line. Press the √ (check - YES)
DEMOVE ELLTED DANI	button once the vat is full and to return to OFF.
REMOVE FILTER PAN	38. Remove the filter pan.  39. Clean the filter pan and press the √ (check - YES) button
CLEAN FILTER PAN?	when complete.
	40. Ensure the filter pan is completely dry. Reassemble the filter
	pan with filter pan components and filter paper/pad. Press
	the √ (check - YES) button when finished.
	<b>△</b> DANGER
IS FILTER PAN DRY?	Ensure that the filter pan is completely dry and free
	of water before filling with oil. Failure to do so will
	cause splattering of hot liquid when the oil is heated
	to cooking temperature.
INSERT FILTER PAN	41. Insert the filter pan and proceed to step 50 to exit and
IIIJENI FILIEN PAIN	return to OFF.
	42. Ensure the vat and filter pan are completely dry.
	Reassemble the filter pan with filter pan components and
	filter paper/pad. Press the √ (check - YES) button when
	finished.
VAT AND PAN DRY?	<u> </u>
	Ensure that the frypot and filter pan are completely
	dry and free of water before filling with oil. Failure to
	do so will cause splattering of hot liquid when the oil is heated to cooking temperature.
	is neated to cooking temperature.

DISPLAY	ACTION
ALERT DRAIN CLOSING REMOVE TOOLS	43. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.  DANGER  Keep all items out of drains. Closing actuators may cause damage or injury.
INSERT PAN	44. Insert the filter pan. If using a JIB fresh oil system skip to step 49. If using a bulk fresh oil system type, continue to next step.
FILL VAT FROM BULK?	45. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu.
START FILLING? PRESS AND HOLD	46. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps if the switch is depressed.
RELEASE BUTTON WHEN FULL	47. Release the button when the vat is filled to the lower fill line.
CONTINUE FILLING?	48. Press the √ (check - YES) button to continue filling. Otherwise press the X (NO) button once the vat is full, to exit and return to OFF.
MANUALLY FILL VAT	49. Carefully pour oil into the vat until it reaches the low-level fill line in the fryer. Press the √ (check - YES) button once the vat is full.
	50. The controller switches off.

# CHAPTER 3: FILTERQUICK™ FQ4000 TACO BELL OPERATOR TROUBLESHOOTING

#### 3.1 Introduction

This chapter provides an easy reference guide to some of the common problems that may occur during the operation of your equipment. The troubleshooting guides that follow are intended to help you correct, or at least accurately diagnose, problems with your equipment. Although the chapter covers the most common problems reported, you may encounter problems that are not covered. In such instances, the Frymaster Technical Services staff will make every effort to help you identify and resolve the problem.

When troubleshooting a problem, always use a process of elimination starting with the simplest solution and working through to the most complex. Most importantly, always try to establish a clear idea of why a problem has occurred. Part of your corrective action involves taking steps to ensure that it doesn't happen again. If a controller malfunctions because of a poor connection, check all other connections. If a fuse continues to blow, find out why. Always keep in mind that failure of a small component may often be indicative of potential failure or incorrect functioning of a more important component or system.

If you are in doubt as to the proper action to take, do not hesitate to call the Frymaster Technical Service Department or your local Frymaster Factory Authorized Servicer for assistance.

## Before calling a servicer or the Frymaster HOTLINE (1-800-551-8633):

- Verify that electrical cords are plugged in and that circuit breakers are on.
- Verify that gas line quick-disconnects are properly connected.
- Verify that any gas line cutoff valves are open.
- Verify that frypot drain valves are fully closed.
- Have your fryer's model and serial numbers ready to give the technician assisting you.

# 

Hot oil will cause severe burns. Never attempt to move this appliance when filled with hot oil or to transfer hot oil from one container to another.

# **A** DANGER

This equipment should be unplugged when servicing, except when electrical circuit tests are required. Use extreme care when performing such tests.

This appliance may have more than one electrical power supply connection point. Disconnect all power cords before servicing.

Inspection, testing, and repair of electrical components should be performed by an authorized service agent only.

# 3.2 Troubleshooting

# **3.2.1 Error Messages and Display Problems**

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
No display on the controller.	A. No power to fryer.     B. Failed controller or another component	<ul><li>A. Verify that the fryer is plugged in and that the circuit breaker is not tripped.</li><li>B. Call your FAS for assistance.</li></ul>
Controller locks up.	Controller error.	Remove and restore power to the controller. If problem persists, call your FAS for assistance.
FQ4000 displays SAFE MODE HEATING IN PROGRESS.	A. Normal display when the fryer is heating.     B. Low oil level.	<ul><li>A. No action required.</li><li>B. Ensure the oil level is at the top oil level line or between the two lines.</li></ul>
FQ4000 displays LOW OIL DETECTED OIL MUST BE ABOVE THE LOWER FILL LINE	Displayed when the fryer detects a low oil condition.	Press the <b>√</b> (check - YES) button. Follow prompts to fill the frypot.
FQ4000 displays TOP OFF OIL EMPTY	Displayed when the fryer detects the top oil is empty.	Change the JIB and press and hold the ORANGE reset button for five (5) seconds. If displayed during startup, follow prompts to fill the frypot.
FQ4000 displays MISCONFIGURED ENERGY TYPE	Energy type in fryer setup is incorrect.	Ensure that the fryer is configured properly for the correct energy type.
FQ4000 displays VAT ID CONNECTOR NOT CONNECTED	Controller locator missing or disconnected.	Ensure the 6-pin locator is connected to rear of controller and it properly grounded in control box.
FQ4000 displays E19 or E28 HEATING FAILURE.	Gas valve off, failed controller, failed transformer, contactor or open high-limit thermostat.	It is normal for this message to appear during startup if the lines have air in them. Check that the gas valve is on. If the gas is on and it continues shut the fryer down and call your FAS for assistance.
FQ4000 display shows HOT-HI-1.	Frypot temperature is more than 410°F (210°C) or, in CE countries, 395°F (202°C).	Shut the fryer down immediately and call your FAS for assistance.
FQ4000 displays RECOVERY FAULT and alarm sounds.	Recovery time exceeded maximum time limit.	Clear error and silence the alarm by pressing the check <b>√</b> button.  Maximum recovery time for gas is 3:15, electric is 1:40. If the error continues call your FAS for assistance.

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
FQ4000 display is in wrong temperature scale (Fahrenheit or Celsius).	Incorrect display option programmed.	Toggle between F° to C° by entering Manager settings, temperature and toggling the temperature scale. Turn the controller on to check temperature. If the desired scale is not displayed, repeat.
FQ4000 displays HELP HI-2 or HIGH LIMIT FAILURE DISCONNECT POWER.	Failed high limit	Shut the fryer down immediately and call your FAS for assistance.
FQ4000 displays TEMPERATURE PROBE FAILURE.	Problem with the temperature measuring circuitry including the probe or damaged controller wiring harness or connector.	Shut the fryer down and call your FAS for assistance.
FQ4000 displays SERVICE REQUIRED followed by an error message.	An error has occurred which requires a service technician.	Press X to continue cooking and call your FAS for assistance. In some cases, cooking may not be allowed.
FQ4000 displays NO MENU GROUP AVAILABLE FOR SELECTION	All menu groups have been deleted. NOTE: ALL RECIPES is not a group that can be used to cook recipes.	Create a new MENU group. Once a new menu is created, add recipes to the group (see section 1.10).

3.2.2 Troubleshooting Filtration

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
SAFE MODE – E81 SAFE MODE FAILURE TECHNICAL SUPPORT REQUIRED 1-800-421-4101 ENTER PASSCODE	The oil level is low in the vat.	Check the filter pan to ensure all the oil returned to the vat. Ensure the oil level is at the top oil level line or between the two lines. Turn fryer off, add oil to the top oil level line. Turn fryer back on. <b>Enter code 4357 if prompted.</b> Call 1-800-421-4101 if necessary.
FQ4000 displays IS VAT FULL? YES NO after a filtration.	<ul> <li>A. Normal operation during some filtration functions.</li> <li>B. If the display appears many times during a filter it could be an indication of slow oil return.</li> </ul>	<ul> <li>A. Ensure the vat is full of oil and press the √ (check - YES) button.</li> <li>B. See section 2.3 troubleshooting in the FQx30-T IO Manual -Filter Pump runs, but oil return is very slow.</li> </ul>
FQ4000 displays IS DRAIN CLEAR?	Drain is clogged and oil failed to drain.	Clear drain with Fryers Friend and press <b>√</b> (check - YES) button. Filtration will resume.

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Fryer filters after each cook cycle.	Filter after setting incorrect.	Change or overwrite the filter after setting by re-entering the filter after value in Manager Settings, Filter Attributes in section 1.8.
FQ4000 displays DO NOT TURN ON FRYER UNLESS FRYPOT IS FULL OF OIL. DO YOU WANT TO TURN FRYER ON? YES NO during or after a filtration.	Displayed when the oil does not return to the frypot within a prescribed amount of time. This could be due to a clogged or dirty filter.	Clean or change the filter and ensure the frypot is full of oil above the lower oil fill line and press the $\checkmark$ (check - YES) button to turn the fryer on.
FQ4000 displays LOW OIL LEVEL DETECTED. OIL MUST BE ABOVE THE LOWER FILL LINE. FILL FRYPOT WITH OIL BEFORE TURNING ON FRYER.	Displayed when the fryer detects a low oil condition.	Ensure the frypot is full of oil and press the <b>√</b> (check - COMPLETED) button.
FQ4000 displays CHANGE FILTER PAPER/PAD?	Filter error has occurred, filter paper/pad clogged, 25-hour filter paper/pad change prompt has occurred or change filter paper/pad was ignored on a prior prompt.	Change the filter paper/pad and ensure the filter pan has been removed from the fryer for a minimum of 30 seconds. Do <b>NOT</b> ignore <b>CHANGE FILTER PAPER/PAD</b> prompts.
FQ4000 display shows FILTER BUSY.	<ul><li>A. Another filtration cycle or filter pad change is still in process.</li><li>B. Filter interface board has not cleared checking system.</li></ul>	<ul><li>A. Wait until the previous filtration cycle ends to start another filtration cycle. Change filter pad if prompted.</li><li>B. Wait 15 minutes and try again.</li></ul>
FQ4000 displays INSERT PAN.	<ul><li>A. Filter pan is not fully set into fryer.</li><li>B. Missing filter pan magnet.</li><li>C. Defective filter pan switch.</li></ul>	<ul> <li>A. Pull filter pan out and fully reinsert into fryer. Ensure controller does not display P.</li> <li>B. Ensure the filter pan magnet is in place and replace if missing.</li> <li>C. If the filter pan magnet is fully against the switch and controller continues to display INSERT PAN, switch is possibly defective.</li> </ul>

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Filtration won't start.	<ul><li>A. Oil level too low.</li><li>B. Oil temperature is too low.</li><li>C. Filter Pan out.</li><li>D. Filtration in recipe settings is set to OFF.</li><li>E. Filter relay has failed.</li></ul>	<ul> <li>A. Ensure oil level is at the top oil fill line (at the top oil level sensor).</li> <li>B. Ensure the oil temperature is at setpoint.</li> <li>C. Ensure controller does not display P. Ensure the filter pan is fully seated into fryer. Power cycle the fryer.</li> <li>D. Set filtration in recipes to ON.</li> <li>E. Call your FAS for assistance.</li> </ul>

## 3.2.3 Filter Busy

When **FILTER BUSY** is displayed, the filter interface board is waiting on another vat to be filtered or waiting on another function to finish. Wait 15 minutes to see if problem is corrected. If not, call your local FAS.

# 3.2.4 OQS (Oil Quality Sensor) Troubleshooting

<ul> <li>Check the following items and perform another OQS filter.</li> <li>Ensure the vat is at setpoint temperature.</li> <li>Inspect the pre-screen filter and ensure it is screwed in tightly with the</li> </ul>	Problem	Corrective Action
wrench. Inspect the O-rings on the filter pan and ensure they are both present and that they are not missing, cracked or worn. If so replace them. Ensure the filter paper is not clogged and clean filter paper is used. Di	No TPM results	<ul> <li>Check the following items and perform another OQS filter.</li> <li>Ensure the vat is at setpoint temperature.</li> <li>Inspect the pre-screen filter and ensure it is screwed in tightly with the wrench.</li> <li>Inspect the O-rings on the filter pan and ensure they are both present and that they are not missing, cracked or worn. If so replace them.</li> <li>Ensure the filter paper is not clogged and clean filter paper is used. Did the vat refill the first time for the previous filter? If not change the filter</li> </ul>

## 3.2.5 Error Log Codes

See section 1.12.2.1 for instructions to access the Error Log.

Code	ERROR MESSAGE	EXPLANATION
E13	TEMPERATURE PROBE FAILURE	TEMP Probe reading out of range. Call
		service.
E16	HIGH LIMIT 1 EXCEEDED	High limit temperature is past more than
		410°F (210°C), or in CE countries, 395°F
		(202°C)
E17	HIGH LIMIT 2 EXCEEDED	High limit switch has opened.
E18	HIGH LIMIT PROBLEM	Vat temperature exceeds 460°F (238°C) and
	DISCONNECT POWER	the high limit has failed to open.
		Immediately disconnect power to the fryer
		and call service.

Code	ERROR MESSAGE	EXPLANATION
E19	HEATING FAILURE – XXX F or XXX C	Heating Control latch circuit failed.
		Heat Contactor failed to latch.
E25	HEATING FAILURE - BLOWER	The air pressure switch(s) failed to close.
E27	HEATING FAILURE - PRESSURE SWITCH - CALL	The air pressure switch has failed closed.
	SERVICE	р. 2000. 200
E28	HEATING FAILURE – XXX F or XXX C	The fryer has failed to ignite and has locked
		out the ignition module.
E29	TOP OFF PROBE FAILURE - CALL SERVICE	ATO RTD reading out of range. Call service
E32	DRAIN VALVE NOT OPEN - FILTRATION AND	Drain valve was trying to open and
	TOP OFF DISABLED - CALL SERVICE	confirmation is missing
E33	DRAIN VALVE NOT CLOSED - FILTRATION AND	Drain valve was trying to close and
	TOP OFF DISABLED - CALL SERVICE	confirmation is missing
E34	RETURN VALVE NOT OPEN - FILTRATION AND	Return valve was trying to open and
	TOP OFF DISABLED - CALL SERVICE	confirmation is missing
E35	RETURN VALVE NOT CLOSED - FILTRATION	Return valve was trying to close and
	AND TOP OFF DISABLED - CALL SERVICE	confirmation is missing
E36	VALVE INTERFACE BOARD FAILURE -	Valve Interface Board connections lost or
	FILTRATION AND TOP OFF DISABLED - CALL	board failure. Call service.
	SERVICE	
E37	AUTOMATIC INTERMITTENT FILTRATION	AIF RTD reading out of range. Call service.
	PROBE FAILURE - FILTRATION DISABLED - CALL	
	SERVICE	
E38	REPEATED DRAIN VALVE ERRORS – FRYER	Three consecutive E32 or E33 errors will
F20	DISABLED	trigger this error. Call Service.
E39	CHANGE FILTER PAD	25-hour timer has expired or dirty filter
		logic has activated. Change the filter paper
E41	OIL IN PAN ERROR	or pad.
C41	OIL IN PAIN ERROR	The system detects that oil may be present in the filter pan.
E42	CLOGGED DRAIN (Gas)	Vat did not empty during filtration. Ensure
L42	CLOUGED DIVAIN (Gas)	the drain is not clogged and follow
		prompts.
E43	OIL SENSOR FAILURE - CALL SERVICE	Oil level sensor may have failed. Call
	J. J	service.
E44	RECOVERY FAULT	Recovery time exceeded maximum time
		limit.
E45	RECOVERY FAULT – CALL SERVICE	Recovery time exceeded maximum time
		limit for two or more cycles. Call service.
E46	SYSTEM INTERFACE BOARD 1 MISSING - CALL	SIB board 1 connection lost or board
	SERVICE	failure. Call service.
E51	DUPLICATE BOARD ID - CALL SERVICE	Two or more controllers have the same
		location ID. Call service.
E52	USER INTERFACE CONTROLLER ERROR - CALL	The controller has an unknown error. Call
	SERVICE	service.

E53 CAN BUS ERROR - CALL SERVICE  E54 USB ERROR  E55 SYSTEM INTERFACE BOARD 2 MISSING - CALL SIB board 2 connection lost during an update.  E55 SYSTEM INTERFACE BOARD 2 MISSING - CALL SIB board 2 connection lost or board failure. Call service.  E61 MISCONFIGURED ENERGY TYPE  E62 VAT NOT HEATING - CHECK ENERGY SOURCE - The vat is not heating properly. XXXF OR XXXC  E63 RATE OF RISE  E64 FILTRATION INTERFACE BOARD FAILURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE  E65 CLEAN OIB SENSOR - XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN - XXXF OR XXXC Drain valve is opened during cooking.  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE  E68 OIB FUSE TRIPPED - CALL SERVICE  E69 RECIPES NOT AVAILABLE - CALL SERVICE  E70 OQS TEMP HIGH  OQS TEMP HOW  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The VIB board Oig fuse has tripped and didn't reset. Call service.  The vIB board Oig fuse has tripped and didn't reset. Call service.  The vIB poard oig fuse has tripped and didn't reset. Call service.  The vIB fuse oig fuse and vib for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues co	Code	ERROR MESSAGE	EXPLANATION
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E55 SYSTEM INTERFACE BOARD 2 MISSING - CALL SERVICE  E61 MISCONFIGURED ENERGY TYPE  E62 VAT NOT HEATING - CHECK ENERGY SOURCE - XXXF OR XXXC  E63 RATE OF RISE  E64 FILTRATION INTERFACE BOARD FAILURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE  E65 CLEAN OIB SENSOR - XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN - XXXF OR XXXC  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE  E68 OIB FUSE TRIPPED - CALL SERVICE  E69 RECIPES NOT AVAILABLE - CALL SERVICE  E69 RECIPES NOT AVAILABLE - CALL SERVICE  E70 OQS TEMP HIGH  OQS TEMP LOW  E71 OQS TEMP LOW  E72 TPM RANGE LOW  E73 TPM RANGE HIGH  The VIB soard 02 connection lost or board failure. Call service.  SIB board 2 connection lost or board failure. Call service.  The val is not heating properly.  The vall is not occurred during a recovery test. Ensure the oil level is at the bottom oil level when cold and at the top oil level when cold and at the top oil level line when at setpoint. On electric fryers ensure the problem.  Filtration Interface Board connections lost or board failure. Call service.  Filtration Interface Board connections lost or board failure. Call service.  Gas -The oil is back sensor does not detect oil. Clean optional oil sensor.  Gas -The oil is back sensor does not detect oil. Clean optional oil sensor.  Gas -The oil is back sensor does not detect oil. Clean optional oil sensor.  Filtration Interface Board connections lost or board failure. Call service.  Gas -The oil is back sensor does not detect oil. Clean optional oil sensor.  Filtration Interface Board connections lost or board relative value of the lements.  Filtration Interface Board connections or board relative value of the lements.  Filtration Interface Board connectio	F54	LISB FRROR	
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recovery test. Ensure the oil level is at the bottom oil level when cold and at the top oil level line when at setpoint. On electric fryers ensure the probe is not touching the elements.  E64 FILTRATION INTERFACE BOARD FAILURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE  E65 CLEAN OIB SENSOR - XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN - XXXF OR XXXC Drain valve is opened during cooking.  E70 OQS TEMP HIGH  C70 OQS TEMP LOW  C71 OQS TEMP LOW  C72 TPM RANGE LOW  E72 TPM RANGE LOW  TO DE SERVICE  E73 TPM RANGE HIGH  TO OQS ERROR  FILTRATION and the top oil level when cold and at the top oil level line when at setpone in touching the elements.  FILTRATION AND TOP OFF DISABLED - CALL  GRAPH		XXXF OR XXXC	
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oil level line when at setpoint. On electric fryers ensure the probe is not touching the elements.  E64 FILTRATION INTERFACE BOARD FAILURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE  E65 CLEAN OIB SENSOR - XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN - XXXF OR XXXC  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE  E68 OIB FUSE TRIPPED - CALL SERVICE  E69 RECIPES NOT AVAILABLE - CALL SERVICE  E70 OQS TEMP HIGH  E70 OQS TEMP LOW  E71 OQS TEMP LOW  E72 TPM RANGE LOW  E73 TPM RANGE HIGH  E74 OQS ERROR  E75 TPM RANGE HIGH  E76 TPM RANGE HIGH  E77 TPM RANGE HIGH  E78 TPM RANGE HIGH  E79 TPM RANGE HIGH  E70 TPM RANGE HIGH  E70 TPM RANGE HIGH  E70 TPM RANGE HIGH  E71 TPM RANGE HIGH  E72 TPM RANGE HIGH  E73 TPM RANGE HIGH  E74 OQS ERROR  E75 TPM RANGE HIGH  The OQS Has an internal error. If issue			recovery test. Ensure the oil level is at the
fryers ensure the probe is not touching the elements.  E64 FILTRATION INTERFACE BOARD FAILLURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE  E65 CLEAN OIB SENSOR - XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN - XXXF OR XXXC  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE  E68 OIB FUSE TRIPPED - CALL SERVICE  E69 RECIPES NOT AVAILABLE - CALL SERVICE  E70 OQS TEMP HIGH  E70 OQS TEMP HIGH  E71 OQS TEMP LOW  E72 TPM RANGE LOW  The TPM is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE HIGH  E73 TPM RANGE HIGH  E74 OQS ERROR  FILTRATION INTERFACE BOARD FAILURE - CALL SERVICE  FILTRATION AND TOP OFF DISABLED - CALL SERVICE is not configured. Call service.  E65 OLIS FUSE TRIPPED - CALL SERVICE is not configured. Call service.  The vilb board OIB fuse has tripped and didn't reset. Call service.  The controller has not been programmed with product recipes. Replace controller with factory programmed controller.  Oil temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E75 TPM RANGE LOW  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E77 TPM RANGE HIGH  The OQS ERROR  The OQS ERROR  The OQS ERROR  The OQS Bas an internal error. If issue			bottom oil level when cold and at the top
elements.  E64 FILTRATION INTERFACE BOARD FAILURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE  E65 CLEAN OIB SENSOR - XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN - XXXF OR XXXC Drain valve is opened during cooking.  E77 CALL SERVICE  E88 OIB FUSE TRIPPED - CALL SERVICE  E89 RECIPES NOT AVAILABLE - CALL SERVICE  E70 OQS TEMP HIGH  C71 OQS TEMP LOW  E71 OQS TEMP LOW  E72 TPM RANGE LOW  E73 TPM RANGE LOW  E73 TPM RANGE HIGH  E74 OQS ERROR  E75 TPM RANGE HIGH  E76 OQS ERROR  E77 TPM RANGE HIGH  E78 TPM RANGE HIGH  E79 TPM RANGE HIGH  E79 TPM RANGE HIGH  E79 TPM RANGE HIGH  E79 TPM RANGE HIGH  E70 TPM RANGE HIGH  E70 TPM RANGE HIGH  E70 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E77 TPM RANGE HIGH  E77 TPM RANGE HIGH  The OQS ERROR  E174 OQS ERROR  E175 TPM RANGE HIGH  The OQS Has an internal error. If issue			<u> </u>
FILTRATION INTERFACE BOARD FAILURE - FILTRATION AND TOP OFF DISABLED - CALL SERVICE  E65 CLEAN OIB SENSOR - XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN - XXXF OR XXXC  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE  E68 OIB FUSE TRIPPED - CALL SERVICE  E69 RECIPES NOT AVAILABLE - CALL SERVICE  E70 OQS TEMP HIGH  E71 OQS TEMP LOW  E71 OQS TEMP LOW  E72 TPM RANGE LOW  E73 TPM RANGE HIGH  E74 OQS ERROR  Filtration Interface Board connections lost or board failure. Call service.  Filtration Interface Board connections lost or board failure. Call service.  Filtration Interface Board connections lost or board failure. Call service.  Gas -The oil is back sensor does not detect oil. Clean optional oil sensor.  Drain valve is opened during cooking.  Controller is turned on when the SIB board is not configured. Call service.  The VIB board OIB fuse has tripped and didn't reset. Call service.  The controller has not been programmed with product recipes. Replace controller with factory programmed controller.  Oil temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  OII temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  The TPM is too low for a valid OQS reading. This may also be seen this fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  F18 TPM reading is too high for a valid OQS reading. Dispose the oil.  The OQS has an internal error. If issue			,
FILTRATION AND TOP OFF DISABLED - CALL SERVICE  CLEAN OIB SENSOR - XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN - XXXF OR XXXC  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE  E68 OIB FUSE TRIPPED - CALL SERVICE  E69 RECIPES NOT AVAILABLE - CALL SERVICE  E70 OQS TEMP HIGH  CONSTEMP LOW  CONST			
SERVICE  E65 CLEAN OIB SENSOR – XXX F OR XXX C - CALL SERVICE  E66 DRAIN VALVE OPEN – XXXF OR XXXC  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE  E68 OIB FUSE TRIPPED – CALL SERVICE  E68 OIB FUSE TRIPPED – CALL SERVICE  E69 RECIPES NOT AVAILABLE – CALL SERVICE  E70 OQS TEMP HIGH  E70 OQS TEMP LOW  E71 OQS TEMP LOW  E72 TPM RANGE LOW  E73 TPM RANGE LOW  E74 OQS ERROR  E75 TPM RANGE HIGH  E76 TPM RANGE HIGH  E77 TPM RANGE HIGH  E77 TPM RANGE HIGH  E78 TPM RANGE HIGH  E79 TRIPPED – CALL SERVICE  E79 TPM RANGE HIGH  E70 TRIPPED – CALL SERVICE  E70 TPM RANGE HIGH  E71 TPM RANGE HIGH  E72 TPM RANGE HIGH  E73 TPM RANGE HIGH  E74 OQS ERROR  E75 TPM RANGE HIGH  The TPM resonable sensor does not detect oil. Clean optional oil sensor does not detect oil. Clean optional oil sensor. Oil temperature on when the SIB board is not configured. Call service.  E75 TPM RANGE HIGH  The TPM resonable sensor does not detect oil. Clean optional oil sensor. Oil temperature is too when the SIB board is not configured. Call service.  E77 TPM RANGE HIGH  The TPM resonable sensor does not detect oil. The oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E77 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  The OQS has an internal error. If issue	E64		
CLEAN OIB SENSOR – XXX F OR XXX C - CALL SERVICE   Gas -The oil is back sensor does not detect oil. Clean optional oil sensor.			or board failure. Call service.
SERVICE  E66 DRAIN VALVE OPEN – XXXF OR XXXC  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE  E68 OIB FUSE TRIPPED – CALL SERVICE  E69 RECIPES NOT AVAILABLE – CALL SERVICE  E70 OQS TEMP HIGH  C71 OQS TEMP LOW  E71 TPM RANGE LOW  TOW  The TPM is too low for a valid OQS reading. Filts at a temperature between 300°F (149°C) and 375°F (191°C).  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E72 TPM RANGE HIGH  TABLE OQS FRANCE  TABLE OQS FRANCE  OIL Clean optional oil sensor.  Drain valve is opened during cooking.  Controller is turned on when the SIB board is not configured. Call service.  The VIB board OIB fuse has tripped and didn't reset. Call service.  The controller has not been programmed with product recipes. Replace controller with factory programmed controller.  Oil temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  TABLE OQS ERROR  The OQS ERROR  The OQS has an internal error. If issue			
E66 DRAIN VALVE OPEN – XXXF OR XXXC  E67 SYSTEM INTERFACE BOARD NOT CONFIGURED  - CALL SERVICE  E68 OIB FUSE TRIPPED – CALL SERVICE  E69 RECIPES NOT AVAILABLE – CALL SERVICE  E70 OQS TEMP HIGH  TO DISTRIPED  TO	E65		
E67 SYSTEM INTERFACE BOARD NOT CONFIGURED - CALL SERVICE is not configured. Call service.  E68 OIB FUSE TRIPPED – CALL SERVICE The VIB board OIB fuse has tripped and didn't reset. Call service.  E69 RECIPES NOT AVAILABLE – CALL SERVICE The controller has not been programmed with product recipes. Replace controller with factory programmed controller.  E70 OQS TEMP HIGH OIL temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E71 OQS TEMP LOW Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR The OQS has an internal error. If issue			
- CALL SERVICE    Is not configured. Call service.			·
The VIB board OIB fuse has tripped and didn't reset. Call service.	E67		
didn't reset. Call service.  E69 RECIPES NOT AVAILABLE – CALL SERVICE  The controller has not been programmed with product recipes. Replace controller with factory programmed controller.  E70 OQS TEMP HIGH  Oil temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E71 OQS TEMP LOW  Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue			
E69 RECIPES NOT AVAILABLE – CALL SERVICE  The controller has not been programmed with product recipes. Replace controller with factory programmed controller.  OII temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  OQS TEMP LOW  Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  The TPM reading is too high for a valid OQS reading. Dispose the oil.  The OQS has an internal error. If issue	E68	OIB FUSE TRIPPED – CALL SERVICE	_ · ·
with product recipes. Replace controller with factory programmed controller.  E70 OQS TEMP HIGH  Oil temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  OQS TEMP LOW  Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue			
with factory programmed controller.  E70 OQS TEMP HIGH Oil temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E71 OQS TEMP LOW Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR The OQS has an internal error. If issue	E69	RECIPES NOT AVAILABLE – CALL SERVICE	, ,
E70 OQS TEMP HIGH  Coil temperature is too high for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  COI temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue			
reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E71 OQS TEMP LOW Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR The OQS has an internal error. If issue		0.00 75140 111611	,, ,
300°F (149°C) and 375°F (191°C).  E71 OQS TEMP LOW  Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue	E/0	OQS TEMP HIGH	,
E71 OQS TEMP LOW  Oil temperature is too low for a valid OQS reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue			
reading. Filter at a temperature between 300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue	F74	OOS TEMP LOW	
300°F (149°C) and 375°F (191°C).  E72 TPM RANGE LOW  The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil.  The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue	E/I	OQ3 TEIVIP LOW	· ·
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This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR The OQS has an internal error. If issue	E72	TPM RANGE LOW	
The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue		IT WITH INTERIOR	, ,
the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR The OQS has an internal error. If issue			1
calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.  E73 TPM RANGE HIGH The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR The OQS has an internal error. If issue			, ,
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continues contact a FAS.  E73 TPM RANGE HIGH The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR The OQS has an internal error. If issue			, , , , , , , , , , , , , , , , , , , ,
E73 TPM RANGE HIGH  The TPM reading is too high for a valid OQS reading. Dispose the oil.  E74 OQS ERROR  The OQS has an internal error. If issue			
reading. Dispose the oil.  E74 OQS ERROR The OQS has an internal error. If issue	F73	TPM RANGE HIGH	
E74 OQS ERROR The OQS has an internal error. If issue			
	E74	OOS ERROR	·
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Code	ERROR MESSAGE	EXPLANATION
E75	OQS AIR ERROR	The OQS is detecting air in the oil. Check
		the O-rings and check/tighten prescreen
		filter to ensure no air is entering the OQS
		sensor. If issue continues contact a FAS.
E76	OQS ERROR	The OQS sensor has a communication
		error. Check connections to the OQS
		sensor. Power cycle the entire fryer battery.
		If issue continues contact a FAS.
E81	SAFE MODE FAILURE ERROR	The system has detected the fryer is not
		heating properly due to low oil conditions.
		Turn the fryer off. Ensure the fryer has oil
		to the bottom fill line or higher. If not, add
		oil to the bottom fill line. Turn fryer back
		on. <b>If prompted, enter code 4357</b> . If
		issue continues contact a FAS.







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