

FilterQuick[™] FQGLA-T Gas Fryer

Installation, Operation and Maintenance Manual

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



FOR YOUR SAFETY

Do Not Store or use gasoline or other

flammable vapors and liquids in the vicinity of this or any other appliance.

CAUTION

READ THE INSTRUCTIONS BEFORE USING THE FRYER.



Part Number: FRY_IOM_8197423 06/2017





NOTICE

IF, DURING THE WARRANTY PERIOD, THE CUSTOMER USES A PART FOR THIS FRYMASTER EQUIPMENT OTHER THAN AN <u>UNMODIFIED</u> NEW OR RECYCLED PART PURCHASED DIRECTLY FROM FRYMASTER DEAN, OR ANY OF ITS AUTHORIZED SERVICERS, AND/OR THE PART BEING USED IS MODIFIED FROM ITS ORIGINAL CONFIGURATION, THIS WARRANTY WILL BE VOID. FURTHER, FRYMASTER DEAN 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 SERVICER.

NOTICE

This appliance is intended for professional use only and is to be operated by qualified personnel only. A Frymaster DEAN 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. See Chapter 1 of this manual for definitions of qualified personnel.

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. For the United States and Canada these are the National Fuel Gas Code, ANSI Z233.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1. See NATIONAL CODE REQUIREMENTS in Chapter 2 of this manual for specifics.

The gas manifold of this appliance or of the battery of which it is a part must be connected to a gas appliance pressure regulator adjusted for the manifold pressure marked on the rating plate.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of $\frac{1}{2}$ psi (3.5 kPa/13.84 inches W.C.).

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than $\frac{1}{2}$ psi (3.5 kPa/13.84 inches W.C.).

NOTICE TO U.S. CUSTOMERS

This equipment is to be installed in compliance with the basic plumbing code of the Building Officials and Code Administrators International, Inc. (BOCA) and the Food Service Sanitation Manual of the U.S. Food and Drug Administration.

NOTICE

Drawings and photos used in this manual are intended to illustrate operational, cleaning and technical procedures and may not conform to onsite management operational procedures.

NOTICE

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.

M DANGER

Improper installation, adjustment, maintenance or service, and unauthorized alterations or modifications can cause property damage, injury, or death. Read the installation, operating, and service instructions thoroughly before installing or servicing this equipment. Only qualified service personnel may convert this appliance to use a gas other than that for which it was originally configured.

A DANGER

No structural material on the fryer should be altered or removed to accommodate placement of the fryer under a hood. Questions? Call the Frymaster Dean Service Hotline at 1-800-551-8633.

WARNING

After installation of a gas fryer and after any maintenance to the gas system of a gas fryer-manifold, valve, burners, etc. – check for gas leaks at all connections. Apply a thick soapy solution to all connections and ensure there are no bubbles. There should be no smell of gas.

NOTICE

The Commonwealth of Massachusetts requires any and all gas products to be installed by a licensed plumber or pipe fitter.

A DANGER

Adequate means must be provided to limit the movement of this appliance without depending upon the gas line connectors or associated piping.

All fryers equipped with casters must be stabilized by installing restraining chains. If a flexible gas line is used, an additional restraining cable must be connected at all times when the fryer is in use.

All fryers equipped with casters must be installed using a connector that complies with the Standard for Connectors for Moveable Gas Appliances, ANSI Z21.69 or CSA 6.16, and a quick-disconnect device that complies with the Standard for Quick-Disconnect Devices for Use with Gas Fuel, ANSI Z21.41 or CSA 6.9.

ACAUTION

No warranty is provided for any Frymaster fryer used in a mobile or marine installation or concession. Warranty protection is only offered for fryers installed in accordance with the procedures described in this manual. Mobile, marine or concession conditions of this fryer should be avoided to ensure optimum performance.

A DANGER

The front ledge of the fryer is not a step! Do not stand on the fryer. Serious injury can result from slips or contact with the hot oil.

A DANGER

Do not store or use gasoline or other flammable liquids or vapors in the vicinity of this or any other appliance.

A DANICED

Do not spray aerosols in the vicinity of this appliance while it is in operation.

A DANGER

Instructions to be followed in the event the operator smells gas or otherwise detects a gas leak must be posted in a prominent location. This information can be obtained from the local gas company or gas supplier.

A DANGER

When installed, this appliance must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, the Canadian Electrical Code, CSA C22.2, or the appropriate national code of the country in which installed.

A DANGER

This product contains chemicals known to the state of California to cause cancer and/or birth defects or other reproductive harm.

Operation, installation, and servicing of this product could expose you to airborne particles of glasswool or ceramic fibers, crystalline silica, and/or carbon monoxide. Inhalation of airborne particles of glasswool or ceramic fibers is known to the State of California to cause birth defects or other reproductive harm.

A 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 WARNING

Do not bang fry baskets or other utensils on the fryer's joiner strip. The strip is present to seal the joint between the fry vessels. Banging fry baskets on the strip to dislodge shortening will distort the strip, adversely affecting its fit. It is designed for a tight fit and should only be removed for cleaning.

WARNING

To ensure the safe and efficient operation of the fryer and hood, the electrical plug for the 120-volt line, which powers the hood, must be fully engaged and locked in its pin and sleeve socket.

NOTICE

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

NOTICE

This appliance is intended to be used for commercial applications, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries, butcheries, etc., but not for continuous mass production of food.

NOTICE

The appliance must be installed and used in such a way that any water cannot contact the fat or oil.

A DANGER

This appliance must be connected to a power supply having the same voltage and phase as specified on the rating plate located on the inside of the appliance door.

M WARNING

Use caution and wear appropriate safety equipment to avoid contact with hot oil or surfaces that may cause severe burns or injury.

N WARNING

Do not block the area around the base or under the fryers.

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.

WARNING

If the electrical power supply cord is damaged, it must be replaced by a Frymaster Factory Authorized Servicer or a similarly qualified person in order to avoid a hazard.

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FILTERQUICK™ FQGLA-T GAS FRYER CHAPTER 1: INTRODUCTION

NOTE: The Frymaster FQGLA-T fryer requires a start-up, demonstration and training before normal restaurant operations can begin.

1.1 General

Read the instructions in this manual thoroughly before attempting to operate this equipment. This manual covers all configurations of models and FQGLA-T fryers. Models designated with FQGLA-T are equipped with built-in filtration systems. The fryers in this model family have most parts in common, and when discussed as a group, will be referred to as FQGLA-T fryers.

The FQGLA-T fryers feature a low oil volume frypot, top-off (manual or optional auto), automatic filtration and a touch screen. The design incorporates a large round drain which ensures that fries and other debris will be washed into the filter pan. The FQGLA-T fryers are controlled with an FQ4000 touchscreen controller. Fryers in this series come in full- or split-vat arrangements, and can be purchased in batteries of up to five vats.

FQGLA-T high-efficiency gas fryers employ a unique infrared burner system that uses up to 43% less energy to cook the same volume as conventional open-burner fryers.

FQGLA-T gas fryers are of an open-frypot design with no tubes, which makes cleaning the stainless frypot quick and easy.

Heating is supplied by a pair of infrared burner assemblies mounted on each side of the frypot. A dedicated blower mounted on the front of the frypot supplies combustion air for the burners. FQGLA-T Gas fryers can be configured for natural gas or propane (LP) gas, as required by the customer.

Each frypot is equipped with a temperature probe for precise temperature control.

All fryers in this series require an external source of AC electrical power. Units can be configured for voltages ranging from 100 VAC to 250 VAC.

FQGLA-T fryers are shipped completely assembled. All fryers are shipped with a package of standard accessories. Each fryer is adjusted, tested, and inspected at the factory before crating for shipment.

This appliance is only for professional use and shall be used by qualified personnel only, as defined in Section 1.6.

1.2 Safety Information

Before attempting to operate your unit, read the instructions in this manual thoroughly. Throughout this manual, you will find notations enclosed in double-bordered boxes similar to the ones that follow.

A CAUTION

CAUTION boxes contain information about actions or conditions that *may cause or result in a malfunction of your system*.

A WARNING

WARNING boxes contain information about actions or conditions that *may cause or result in damage to your system*, and which may cause your system to malfunction.

A DANGER

DANGER boxes contain information about actions or conditions that *may cause or result in injury to personnel*, and which may cause damage to your system and/or cause your system to malfunction.

Your fryer is equipped with automatic safety features:

- 1. High-temperature detection shuts off gas to the burner assembly should the controlling thermostat fail.
- 2. A safety circuit on units with filter systems prevents burner ignition with the drain valve open.

The controller is equipped with a lithium battery. Replace battery with Panasonic CR2032 3V lithium battery, part number 8074674 only. Use of another battery may present a risk of fire or explosion. The battery can be purchased from your Factory Authorized Servicer.

A CAUTION

Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.

1.3 Information for the FQ4000 Touchscreen Controllers

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. While this device is a verified Class A device, it has been shown to meet the Class B limits. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of the equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If necessary, the user should consult the dealer or an experienced radio and television technician for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

1.4 European Community (CE) Specific Information

The European Community (CE) has established certain specific standards regarding equipment of this type. Whenever a conflict exists between CE and non-CE standards, the information or instructions concerned are identified by means of shadowed boxes.

1.5 Installation, Operating, and Service Personnel

Operating information for Frymaster equipment has been prepared for use by qualified and/or authorized personnel only, as defined in Section 1.6. All installation and service on Frymaster equipment must be performed by qualified, certified, licensed, and/or authorized installation or service personnel, as defined in Section 1.6.

1.6 Definitions

QUALIFIED AND/OR AUTHORIZED OPERATING PERSONNEL

Qualified/authorized operating personnel are those who have carefully read the information in this manual and have familiarized themselves with the equipment functions, or who have had previous experience with the operation of the equipment covered in this manual.

QUALIFIED INSTALLATION PERSONNEL

Qualified installation personnel are individuals, firms, corporations, and/or companies which, either in person or through a representative, are engaged in and are responsible for the installation of gas-fired appliances. Qualified personnel must be experienced in such work, be familiar with all gas precautions involved, and have complied with all requirements of applicable national and local codes.

QUALIFIED SERVICE PERSONNEL

Qualified service personnel are those who are familiar with Frymaster equipment and who have been authorized by Frymaster, L.L.C. to perform service on the equipment. All authorized service personnel are required to be equipped with a complete set of service and parts manuals, and to stock a minimum amount of parts for Frymaster equipment. A list of Frymaster Factory Authorized Servicers (FAS's) is located on the Frymaster website at www.frymaster.com. Failure to use qualified service personnel will void the Frymaster warranty on your equipment.

1.7 Shipping Damage Claim Procedure

Your Frymaster equipment was carefully inspected and packed before leaving the factory. The transportation company assumes full responsibility for safe delivery upon its acceptance of the equipment for transport.

What to do if your equipment arrives damaged:

- 1. File a claim for damages immediately, regardless of the extent of damages.
- 2. Inspect for and record all visible loss or damage, and ensure that this information is noted on the freight bill or express receipt and is signed by the person making the delivery.
- **3. Concealed loss or damage** that was unnoticed until the equipment was unpacked should be recorded and reported to the freight company or carrier **immediately** upon discovery. A concealed damage claim must be submitted within 15 days of the date of delivery. Ensure that the shipping container is retained for inspection.

Frymaster DOES NOT ASSUME RESPONSIBILITY FOR DAMAGE OR LOSS INCURRED IN TRANSIT.

1.8 Parts Ordering and Service Information

For non-routine maintenance or repairs, or for service information, contact your local Frymaster Authorized Servicer (FAS). In order to assist you quickly, the Frymaster Authorized Servicer (FAS) or Service Department representative requires certain information about your equipment. Most of this information is printed on a data plate affixed to the inside of the fryer door. Part numbers are found in the Parts Manual. Parts orders may be placed directly with your local FAS or distributor. A list of Frymaster Factory Authorized Servicers (FAS's) is located on the Frymaster website at www.frymaster.com. If you do not have access to this list, contact the Frymaster Service Department at 1-800-551-8633 or 1-318-865-1711.

Service information may be obtained by contacting your local FAS/Distributor. Service may also be obtained by calling the Frymaster Service Department at 1-800-551-8633 or 1-318-865-1711 or by email at fryservice@mtwfs.com. When requesting service or ordering parts, please have the following information ready:

Model Number:	
Serial Number:	
Type of Gas or Voltage:	
Item Part Number:	
Quantity Needed:	

In addition to the model number, serial number, and type of gas, please be prepared to describe the nature of the problem and have ready any other information that you think may be helpful in solving your problem.

RETAIN AND STORE THIS MANUAL IN A SAFE PLACE FOR FUTURE USE.

FILTERQUICK™ FQGLA-T GAS FRYER CHAPTER 2: INSTALLATION INSTRUCTIONS

2.1 General Installation Requirements

Proper installation is essential for the safe, efficient, trouble-free operation of this appliance.

Qualified, licensed, and/or authorized installation or service personnel, as defined in Section 1.6 of this manual, should perform all installation and service on Frymaster equipment.

Conversion of this appliance from one type of gas to another should only be performed by qualified, licensed, and/or authorized installation or service personnel as defined in Section 1.6 of this manual.

<u>Failure to use qualified, licensed, and/or authorized installation or service personnel (as defined in Section 1.6 of this manual) to install, convert to another gas type or otherwise service this equipment will void the Frymaster warranty and may result in damage to the equipment or injury to personnel.</u>

Where conflicts exist between instructions and information in this manual and local or national codes or regulations, installation and operation shall comply with the codes or regulations in force in the country in which the equipment is installed.

Service may be obtained by contacting your local Frymaster Dean Factory Authorized Servicer.

A DANGER

Building codes prohibit a fryer with its open tank of hot oil being installed beside an open flame of any type, including those of broilers and ranges.

Upon arrival, inspect the fryer carefully for visible or concealed damage. (See **Shipping Damage Claim Procedure** in Section 1.7 of this manual.)

2.1.1 Clearance and Ventilation

The fryer(s) must be installed with a 6" (150 mm) clearance at both sides and back when installed adjacent to combustible construction; no clearance is required when installed adjacent to noncombustible construction. A minimum of 24" (600 mm) clearance should be provided at the front of the fryer.

⚠ WARNING

Do not block the area around the base or under the fryers.

DANGER

No structural material on the fryer should be altered or removed to accommodate placement of the fryer under a hood. Questions? Call the Frymaster Dean Service Hotline at 1-800-551-8633.

One of the most important considerations of efficient fryer operation is ventilation. Make sure the fryer is installed so that products of combustion are removed efficiently, and that the kitchen ventilation system does not produce drafts that interfere with burner operation.

The fryer flue opening must not be placed close to the intake of the exhaust fan, and the fryer must never have its flue extended in a "chimney" fashion. An extended flue will change the combustion characteristics of the fryer, causing longer recovery time. It also frequently causes delayed ignition. To provide the airflow necessary for good combustion and burner operation, the areas surrounding the fryer front, sides, and rear must be kept clear and unobstructed.

⚠ DANGER

This appliance must be installed with sufficient ventilation to prevent the occurrence of unacceptable concentrations of substances harmful to the health of personnel in the room in which it is installed.

Fryers must be installed in an area with an adequate air supply and adequate ventilation. Adequate distances must be maintained from the flue outlet of the fryer to the lower edge of the ventilation filter bank. Filters should be installed at an angle of 45°. Place a drip tray beneath the lowest edge of the filter. For U.S. installation, NFPA standard No. 96 states, "A minimum distance of 18 in. (450 mm) should be maintained between the flue outlet and the lower edge of the grease filter." Frymaster recommends that the minimum distance be 24 in. (600 mm) from the flue outlet to the bottom edge of the filter when the appliance consumes more than 120,000 BTU per hour.

For installations in the United States, information on construction and installation of ventilating hoods can be found in the NFPA standard cited above. A copy of the standard may be obtained from the National Fire Protection Association, Battery March Park, Quincy, MA 02269.

2.1.2 National Code Requirements

The type of gas for which the fryer is equipped is stamped on the data plate attached to the inside of the fryer door. Connect a fryer stamped "NAT" only to natural gas, those stamped "PRO" only to propane gas, and those stamped "MFG" only to manufactured gas.

Installation shall be made with a gas connector that complies with national and local codes, and, where applicable, CE codes. Quick-disconnect devices, if used, shall likewise comply with national, local, and, if applicable, CE codes. In the absence of local codes, installation must conform to the national Fuel Gas Code, ANSI Z223.1/NFPA 54 or the Natural Gas and Propane Installation code, CSA B149.1, as applicable including:

- 1. The appliance and its individual shutoff valve must be disconnected form the gas supply piping system during any pressure testing of the system at test pressures in excess of $\frac{1}{2}$ psi (3.5 kPa).
- 2. The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi (3.5 kPa).

2.1.3 Electrical Grounding Requirements

All electrically operated appliances must be grounded in accordance with all applicable national and local codes, and, where applicable, CE codes. In the absence of local codes, the appliance must be grounded in accordance with National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.2, as applicable. All units (cord connected or permanently connected) should be connected to a grounded power supply system. A wiring diagram is located on the inside of the fryer door. Refer to the rating plate on the inside of the fryer door for proper voltages.

A DANGER

This appliance is equipped with a special (grounding) plug for your protection against electrical shock, and must be plugged directly into a properly grounded receptacle. Do not cut, remove, or otherwise bypass the grounding prong on this plug!

M DANGER

This appliance requires electrical power for operation. Place the gas control valve in the OFF position in case of a prolonged power outage. Do not attempt to operate this appliance during a power outage.

A WARNING

To ensure the safe and efficient operation of the fryer and hood, the electrical plug for the 120-volt line, which powers the hood, must be fully engaged and locked in its pin and sleeve socket.

2.1.4 Australian Requirements

To be installed in accordance with AS 5601, local authority, gas, electricity, and any other relevant statutory regulations.

If casters are fitted, the installation must comply with AS5601 and AS1869 requirements.

2.2 Caster Installation

On an appliance with casters; the installation shall be made with a connector that complies with the Standard for Moveable Gas Appliances, ANSI Z21.69 • CSA 6.16, and a quick disconnect device that complies with the Standard for Quick-Disconnect Devices for Use With Gas Fuel, ANSI Z21.41 • CSA 6.9.

The front right caster may be locked with setscrews that may need to be loosened to move into place. Once in place, the caster setscrews can be locked with the caster wheel parallel to the fryer from front to back to ease moving the fryer in and out of the hood for cleaning and preventing the caster from hitting the oil reservoir.

2.3 **Pre-Connection Preparations**

⚠ DANGER

DO NOT connect this appliance to the gas supply before completing each step in this section.

After the fryer has been positioned under the exhaust hood, ensure the following has been accomplished:

1. Adequate means must be provided to limit the movement of fryers without depending upon the gas line connector and the quick-disconnect device or its associated piping to limit the appliance movement. If a flexible gas hose is used, a restraining cable must be connected at all times when the fryer is in use. The restraining cable and installation instructions are packed with the flexible hose in the accessories box that was shipped with your unit.

A DANGER

The appliance area must be kept free and clear of combustible material at all times.

- 2. Frymaster recommends that the minimum distance from the flue outlet to the bottom edge of the hood be 24 in. (600 mm) when the appliance consumes more than 120,000 BTU per hour.
- 3. Test the fryer electrical system:
 - a. Plug the fryer electrical cord(s) into a grounded electrical receptacle. **NOTE: To ensure the safe and** efficient operation of the fryer and hood, the electrical plug for the 100 volt to120-volt line, which powers the hood, must be fully engaged and locked in its pin and sleeve socket.
 - b. Place the power switch in the **ON** position.
 - For fryers having controllers, verify that the display indicates the controller is on.
 - If the store is equipped with a hood interlock system, the hood exhaust fan should be on. If not, the store hood interlock system is improperly wired and must be corrected.
 - c. Place the fryer power switch in the **OFF** position. Verify that the display indicates OFF. The hood exhaust system should be off when all controllers display OFF.
- 4. Refer to the data plate on the inside of the fryer door to determine if the fryer burner is configured for the proper type of gas before connecting the fryer quick-disconnect device or piping from the gas supply line.
- 5. Verify the minimum and maximum gas supply pressures for the type of gas to be used in accordance with the accompanying tables and the data plate on the inside of the fryer door.

Non-CE Standard for Gas Pressure				
Fryer Model	FQGLA-T			
Gas Type	Nat (Natural)	LP (Propane)		
Incoming Min Pressure WC/kPa/mbar	6/1.49/14.93	11/2.74/27.37		
Incoming Max Pressure WC/kPa/mbar	14/3.48/34.84	14/3.48/34.84		
Orifice Size (mm)	3.18	2.10		
Number of Orifices	2	2		
Burner Manifold Pressure WC/kpa	3.00/0.73	8.25/2.5		

(1) mbar = 10.2 mm H2O

Korea Standard for Gas Pressure			
FQGLA-T			
LNG	LPG		
(Natural)	(Propane)		
4/1.00/10.00	9.2/2.30/23.00		
10/2.50/25.00	13.2/3.30/33.00		
3.18	2.10		
2	2		
3.00/0.73	8.25/2.5		
	FQGLA-T LNG (Natural) 4/1.00/10.00 10/2.50/25.00 3.18 2		

(1) mbar = 10,2 mm H2O

CE Standard for Gas Pressure				
Fryer Model	FQGLA	-T		
Gas Type	G20	G25	G30	G31
	Natural	Natural	Butane	Propane
	Gas	Gas	/Propan	
	Lacq	Gro-	e	
		nique		
Incoming Min Pressure (mbar)	20	20	28/30	37
Incoming Max Pressure (mbar)	20	25	50	50
Orifice Size (mm)	3.18	3.18	1.95	1.95
Number of Orifices	2	2	2	2
Regulator Pressure Full Vat (mbar)	7	10	17	20.6
Regulator Pressure Dual Vat (mbar)	8	11.2	17	20.6
Burner Manifold Pressure (mbar) Full Vat	7	10	17	20.6
Burner Manifold Pressure (mbar) Dual Vat	8	11.2	17	20.6

(1) mbar = 10,2 mm H2O

6. For fryers equipped with a built-in filtration system (FQGLA-T models) plug the electrical cord(s) into a power receptacle behind the fryer.

2.4 Connection to Gas Line

A DANGER

Before connecting new pipe to this appliance, the pipe must be blown out thoroughly to remove all foreign material. Foreign material in the burner and gas controls will cause improper and dangerous operation.

⚠ DANGER

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of ½ PSI (3.45 kPa, 13.84 inches W.C.) to avoid damage to the fryer's gas tubes and gas valve(s).

⚠ DANGER

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ PSI (3.45 kPa, 13.84 inches W.C.)

⚠ DANGER

"Dry-firing" your unit will cause damage to the frypot and can cause a fire. Always ensure that cooking oil or water is in the frypot before firing the unit.

⚠ DANGER

All connections must be sealed with a joint compound suitable for the gas being used and all connections must be tested with a solution of soapy water before lighting any pilots.

Never use matches, candles, or any other ignition source to check for leaks. If gas odors are detected, shut off the gas supply to the appliance at the main shut-off valve and immediately contact the local gas company or an authorized service agency for service.

The size of the gas line used for installation is very important. If the line is too small, the gas pressure at the burner manifold will be low. This may cause slow recovery and delayed ignition. The incoming gas supply line

should be a minimum of $1\frac{1}{2}$ " (38 mm) in diameter. Refer to the chart below for the minimum sizes of connection piping.

The FQGLA-T™ gas fryer has received the CE mark for the countries and gas categories indicated in the table on the following page. **NOTE:** The nominal heat input (QN) is 21kW except for AT, DE, LU and category 3P/B, which is 23kW.

Gas Connection Pipe Sizes (Minimum incoming pipe size should be 1 1/2" (41 mm))					
Gas Single Unit 2 - 3 Units units*					
Natural	3/4" (22 mm)	1" (28 mm)	1 1/4" (36 mm)		
Propane	1/2" (15 mm)	3/4" (22 mm)	1" (28 mm)		
Manufactured	1" (28 mm)	1 1/4" (36 mm)	1 1/2" (41 mm)		

^{*} For distances of more than 20 feet (6 m) and/or more than 4 fittings or elbows, increase the connection by one pipe size.

CE Approved Gas Categories by Country				
COUNTRIES	CATEGORIES	GAS	PRESSURE (MBAR)	
AUSTRIA (AT)	II2H3B/P	G20	20	
		G30, G31	50	
BELGIUM (BE)	I2E(R)B	G20, G25	20, 25	
` '	l3+	G30, G31	28-30, 37	
BULGARIA (BG),		G20	20	
CROATIA (HR), FINLAND (FI), ROMANIA (RO), SLOVENIA (SI), TURKEY (TR)	II2H3B/P	G30, G31	30	
ESTONIA (EE), LATVIA (LV)	I2H	G20	20	
	II2Eoi2 I	G20, G25	20, 25	
FRANCE (FR)	II2Esi3+	G30, G31	28-30, 37	
FRANCE (FR)	II2Esi3P	G20, G25	20, 25	
	IIZESISF	G31	50	
	II2ELL3B/P	G20, G25	20	
GERMANY (DE)	IIZELE3D/F	G30, G31	50	
	I3P	G31	50	
HUNGARY (HU)	II2HS3B/P	G25	25	
` ,		G30, G31	50	
CYPRUS (CY), CZECH REPUBLIC (CZ), GREECE (GR), IRELAND (IE), ITALY (IT), PORTUGAL (PT), SLOVAKIA (SK), SPAIN (ES), UNITED KINGDOM (GB)	II2H3+	G20 G30, G31	28-30, 37	
LUXEMBOURG (LU)	II2E3B/P	G20, G25 G30, G31	20 50	
		G30, G31 G25	25	
NETHERLANDS (NL)	II2L3B/P	G30, G31	30	
ICELAND (IS) MALTA (MT), NORWAY (NO),	I3B/P	G30, G31	30	
POLAND (PL)	II2E3B/P	G20, G25	20	
I OLAND (FL)	IIZEJD/F	G31	37	
	II2H3+	G20	20	
SWITZERLAND (CH)	IIZI IJT	G30, G31	28-30, 37	
OWITZEREAND (OIT)	II2H3B/P	G20	20	
	IIZI IJD/F	G30, G31	50	
DENMARK (DK),	II2H3B/P	G20	20	
SWEDEN (SE),	IIZI IJD/F	G30, G31	30	
LITHUANIA (LT)	I2H	G20	20	

NOTICE- Australia Only

The air pressure switch on the combustion blower should read: Full Vat units-122pa (0.5 inches W.C.) and for Split Vat units-180pa (0.72 inches W.C.).

CE Standard Required airflow for the combustion air supply is 2m³/h per kW.

1. Connect the quick-disconnect hose to the fryer quick-disconnect fitting under the front of the fryer and to the building gas line.

NOTE: Some fryers are configured for a rigid connection to the gas supply line. These units are connected to the gas supply line at the rear of the unit.

When using thread compound, use very small amounts on male threads only. Use a pipe thread compound that is not affected by the chemical action of LP gases (Loctite™ PST56765 Sealant is one such compound). DO NOT apply compound to the first two threads. Doing so may allow some of the compound to enter the gas stream, resulting in clogging of burner orifices and/or the control valve.

- 2. Open the gas supply to the fryer and check all piping, fittings, and gas connections for leaks. A soap solution should be used for this purpose.
- 3. Light the fryer following the procedures that are described in the "Lighting Instructions" found in Chapter 3 of this manual.

A DANGER

"Dry-firing" your unit will cause damage to the frypot and can cause a fire. Always ensure that cooking oil or water is in the frypot before firing your unit.

- 4. The burner manifold pressure should be checked at this time by the local gas company or an authorized service agent. The tables on page 2-4 list the burner manifold gas pressures for the various gas types that can be used with this equipment. Also verify the pressures, on the rating plate, inside the fryer door
- 5. Check the programmed temperature thermostat setting by pressing the temperature button.

2.5 Converting to Another Gas Type

⚠ DANGER

This appliance was configured at the factory for a specific type of gas. Converting from one type of gas to another requires the installation of specific gas-conversion components. Conversion instructions are included with conversion kits.

Switching to a different type of gas without installing the proper conversion components may result in fire or explosion. NEVER ATTACH THIS APPLIANCE TO A GAS SUPPLY FOR WHICH IT IS NOT CONFIGURED!

Conversion of this appliance from one type of gas to another should only be performed by qualified, licensed, and authorized installation or service personnel, as defined in Section 1.6 of this manual.

FQGLA-T™ gas fryers manufactured for Non-CE countries use different burners for each type gas. The burners in fryers built for propane gas have a special gray-colored coating on the burner tiles to enable them to withstand the higher caloric value of the propane gas. Burners designed for use in propane units may be used in natural gas applications, but not vice versa.

Non-CE Gas Conversion Kits

Natural Gas to Propane (LP) Gas Full Vat: PN 826-2965 Dual Vat: PN 826-2966 Propane (LP) Gas to Natural Gas Full Vat: PN 826-2967 Dual Vat: PN 826-2968

Non-CE Gas Conversion Kits for Australia

Natural Gas to Propane (LP) Gas
Full Vat: PN 826-2969
Propane (LP) Gas to Natural Gas
Full Vat: PN 826-2971
Dual Vat: PN 826-2972

Units manufactured for export to CE countries are equipped with "universal" burners that may be used with either Natural (G20, G25) gas or Butane (G30) and Propane (G31) gases.

CE Gas Conversion Kits for Units with Gas Valve 810-1715

G20 or G25 (Natural) to G30 or G31 Gas: G30 or G31 to G20 or G25 (Natural) Gas:

PN 826-2975 PN 826-2976

CE GAS CONVERSION INSTRUCTIONS

- 1. Between G20- and G25-type Natural Gas, adjust the gas pressure at the regulator. (Refer to the CE Standard Burner Manifold Gas Pressure Chart.) Do not change the orifice.
- 2. Between a 2nd family (G20 or G25) and a 3rd family gas (G30 Butane or G31 Propane):
 - a. Change the orifices.
 - b. Adjust the manifold pressure.
- 3. Remove the old rating plate and return to Frymaster. Affix the new rating plate included with the conversion kit in place of the old rating plate stating the gas has been converted.
- 4. If the destination language changes, replace the rating plate. Call your local service agency or KES for a label kit. The language of reference will be on the corner of the label.

2.6 After Fryers are Positioned at the Frying Station

⚠ DANGER

No structural material on the fryer should be altered or removed to accommodate placement of the fryer under a hood. Questions? Call the Frymaster Dean Service Hotline at 1-800-551-8633.

1. Once the fryer has been positioned at the frying station, use a carpenter's level placed across the top of the frypot to verify that the unit is level, both side-to-side and front-to-back.

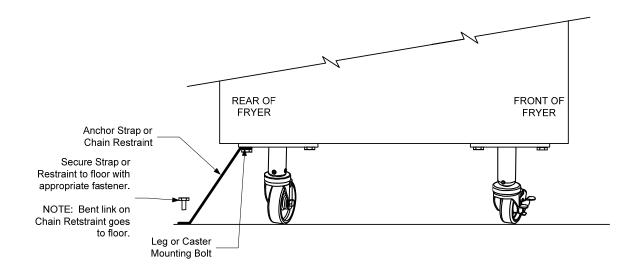
To level fryers, adjust the casters being careful to ensure the fryer(s) are at the proper height in the frying station.

When the fryer is leveled in its final position, install the restraints provided by the KES to limit its movement so that it does not depend on or transmit stress to the connection. Install the restraints in accordance with the provided instructions. If the restraints are disconnected for service or other reasons, they must be reconnected before the fryer is used.

A DANGER

Hot oil can cause severe burns. Avoid contact. Under all circumstances, oil must be removed from the fryer before attempting to move it to avoid spills, falls, and severe burns. Fryers may tip and cause personal injury if not secured in a stationary position.

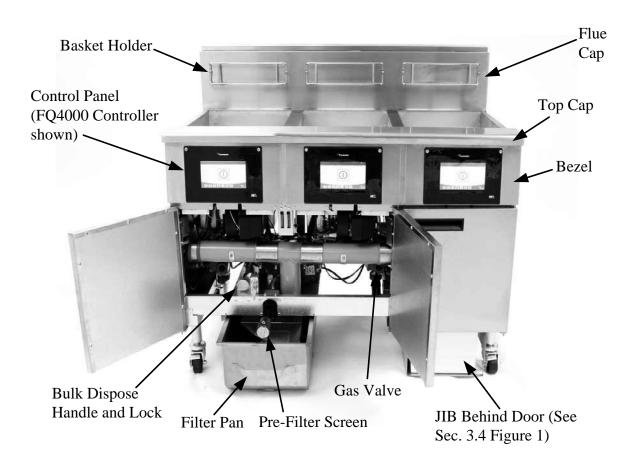
Adequate means must be provided to limit the movement of this appliance without depending on the connector and the quick-disconnect device or its associated piping to limit the appliance movement.



2. Clean, and fill frypot(s) with cooking oil. (See *Equipment Setup and Shutdown Procedures* in Chapter 3.)

FILTERQUICK™ FQGLA-T GAS FRYER CHAPTER 3: OPERATING INSTRUCTIONS

FINDING YOU WAY AROUND THE FQGLA-T™ SERIES GAS FRYER



TYPICAL CONFIGURATION (3FQGLA-T SHOWN)

NOTE: The appearance of your fryer may differ slightly from that shown depending upon configuration and date of manufacture.

3.1 Equipment Setup and Shutdown Procedures

⚠ 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.

A CAUTION

Before lighting the fryer, make sure the fryer is OFF and the frypot drain valves are closed. Remove the basket support rack(s), if installed, and fill the frypot to the bottom OIL-LEVEL line. If solid shortening is being used, make sure it is packed down into the bottom of the frypot.

3.1.1 **Setup**

A WARNING

Never operate this appliance with an empty frypot. The frypot must be filled with water or oil before lighting the burners. Failure to do so will damage the frypot and may cause a fire.

↑ 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.

M WARNING

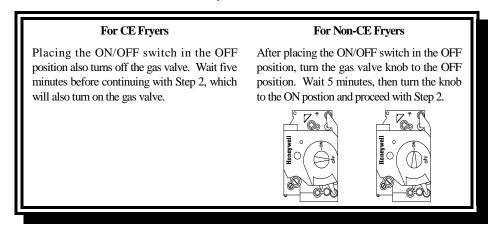
The FQGLA-T™ is not intended to use solid shortening without a solid shortening kit installed. The use of solid shortening without a solid shortening kit will clog the top off oil lines. The oil capacity of the FQGLA-T™ gas fryer is 32 lbs. (3.8 gallons/14.5 liters) at 70°F (21°C) for a full-vat and 18 lbs. (2.2 gallons/8.33 liters) at 70°F (21°C) for each half of a dual-vat.

Prior to filling frypots with oil, ensure all drains are closed.

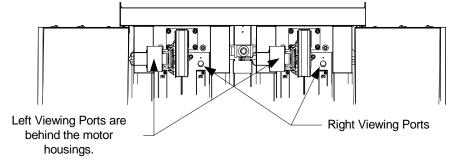
- Fill the frypot with cooking oil to the <u>bottom</u> OIL LEVEL line located on the rear of the frypot. This will allow
 for oil expansion as heat is applied. Do not fill cold oil any higher than the bottom line; overflow may occur
 as heat expands the oil. If solid shortening is used, make sure it is packed down into the bottom of the frypot.
- 2. Ensure that the power cord(s) is/are plugged into the appropriate receptacle(s). Verify that the face of the plug is flush with the outlet plate, with no portion of the prongs visible.
- 3. Ensure that the oil level is at the top OIL LEVEL line when the oil is at its cooking temperature.

3.1.2 Lighting the Fryer

1. Press the controller ON/OFF switch to the OFF position.



- 2. Press the controller ON/OFF switch to the ON position.
- 3. If the burners fail to light, press the ON/OFF switch to the OFF position and wait 60 seconds. Repeat step 2.
- 4. The fryer will automatically enter the melt cycle mode if the frypot temperature is below 180°F (82°C) and will display **MELT CYCLE IN PROGRESS**. (**NOTE:** During the melt cycle, the burners will repeatedly fire for a few seconds, then go out for a longer period.) If using solid shortening, the shortening must be stirred occasionally during the heating process to ensure all the shortening in the drain and vat are liquified. When the frypot temperature reaches 180°F (82°C), the unit will automatically switch to the heating mode and **PREHEAT** is displayed until within 15°F (9°C) of setpoint. The burners will remain lit until the frypot temperature reaches the programmed cooking temperature. Once the fryer reaches setpoint, the controller display changes to **START** and the fryer is ready for use.
- 5. After the burners have been lit for at least 90 seconds, observe the flames through the burner viewing ports located on each side of the combustion air blower.



The optimum burn is a bright orange-red glow. If a blue flame is observed, or if there are dark spots on a burner face, adjust the air gas mixture as follows: On the side of the blower housing opposite the motor is a plate with one or two locking nuts. Loosen the nuts enough to allow the plate to be moved, then adjust the position of the plate to open or close the air intake opening until a bright orange-red glow is obtained. Carefully hold the plate in position and tighten the locking nuts.

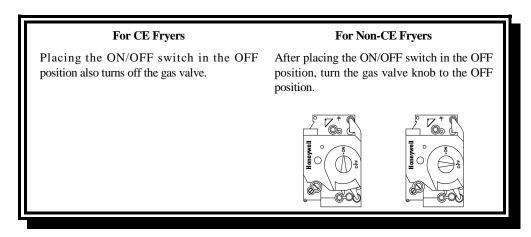
3.1.3 Shutdown

For short-term shut down during the workday:

1. Place the controller ON/OFF switch in the OFF position and put the frypot covers in place.

When shutting the fryers down at closing time:

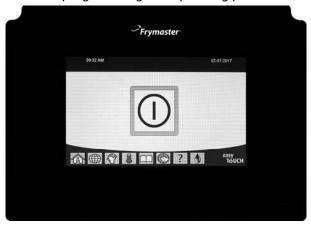
1. Place the controller ON/OFF switch in the **OFF** position to turn the fryer off.



- 2. Filter the oil and clean the fryers (See Chapters 5 and 6).
- 3. Clean the filter pan and replace the filter paper. Do not leave solid shortening in the filter pan over night.
- 4. Place the frypot covers on the frypots.

3.2 Operation

This fryer is equipped with FQ4000 controllers (illustrated below). Refer to the FQ4000 Controller Operating Instructions in Chapter 4 for the controller programming and operating procedures.



FQ4000 CONTROLLER

Refer to Chapter 5 of this manual for operating instructions for the built-in filtration system.

3.3 Manual Top-Off Low Oil Volume Automatic Refill

The fryer can be configured for either manual top off or for both manual and automatic depending on the hardware. When a vat is low, press the manual top off (oil drop) button at the bottom of the screen (see Figure 3) to top off the vat. The controller displays PUSH BUTTON TOP OFF? Press the YES (\sqrt) button. START FILLING? is displayed. Press and hold the button to start filling. Release the button when the oil is at the top oil level line. Press the NO (X) button to exit. If the unit has optional auto top off, the frypot oil levels are continually checked and topped off as necessary from a reservoir in the cabinet.

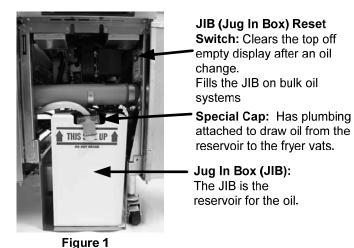
The top off reservoir holds a 35 pound box of oil. In a typical operation this will last approximately two days.

Components of the system are annotated at the right (see Figure 1).

NOTE: The frypots will require manual filling upon startup and after a clean (boil-out or cold clean) unless a bulk fresh oil system is used.

3.4.1 Prepare the System for Use

Once the fryer is positioned under the hood install the JIB (Jug In Box) basket shipped in the accessories pack (see Figure 2). If using the bulk oil option see Appendix A.



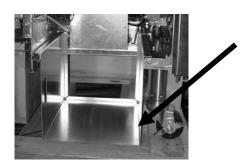


Figure 2

3.4.2 Install the oil reservoir or jug (JIB)

Remove the original lid from the oil container and foil liner. Replace with the provided cap, which has connected suction hardware. Ensure the feeder tube from the cap reaches to the bottom of the oil container.

Place the oil container inside the cabinet and slide it into place (as shown on the following page). Avoid catching the suction hardware on the cabinet interior as the container is placed in the fryer. The system is now ready for operation.

3.4.3 Changing the JIB (Jug In Box) oil reservoir

When the oil reservoir level is low and displays TOP OFF OIL EMPTY, (see Figure 3). Press the check button to clear the screen. Once the reservoir is refilled and/or replaced, press and hold the orange reset button next to the oil reservoir (see Figure 8 on the following page) until the message in the lower corner is no longer displayed. If using solid shortening see Appendix B for instructions.



Top Off Oil Empty indicates that the oil reservoir is empty.

- cabinet (see Figure 4).
- 1. Open the cabinet and slide the JIB from the 2. Remove the cap and pour any remaining oil in the container into all fry vats equally (see Figure 5).



Figure 4



Figure 5

3. Place new JIB upright and remove the cap 4. Put the tube in the new full container (see Figure 7). and foil seal (see Figure 6).



Figure 6

MARNING Do not add HOT or USED oil to a JIB.



Figure 7

- 5. Slide the JIB onto the shelf inside the fryer cabinet (as seen in Figure 4).
- 6. Press the JIB reset switch to clear the Top Off Oil Empty display on the FQ4000 controller (see Figure 8).

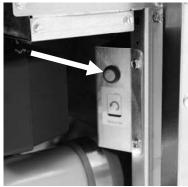


Figure 8

3.4.4 Bulk Oil Systems

Instructions for installing and using bulk oil systems are found in Appendix A located at the rear of this manual.

FILTERQUICK™ FQGLA-T GAS FRYER CHAPTER 4: FQ4000 CONTROLLER INSTRUCTIONS

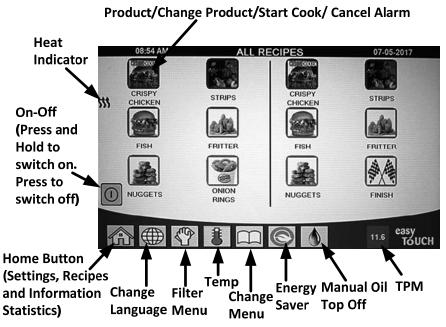
4.1 FQ4000 General Information

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. Just choose a menu item on a product button and press the START button under the display showing the desired item. The controller can move seamlessly from one product to another.

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

4.2 FQ4000 Button Description and Functions

4.2.1 Navigation Buttons



4.2.1.1 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).



4.2.1.2 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, Change Language, Filter and Information Statistics buttons.



Figure 2

4.2.1.3 Crew Mode Button

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



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



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

4.2.1.6 Settings Button

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

4.2.1.7 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.



Figure 3

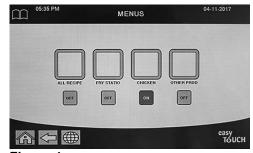


Figure 4



Figure 5

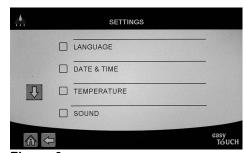


Figure 6



Figure 7

4.2.1.8 Power Button

Pressing and holding the power button soft powers up the user interface and fryer. Pressing the power button when the fryer is on turns the fryer off (see Figure 8).



Figure 8

4.2.1.9 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

4.2.1.10 Filter Menu Button

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



Figure 10

4.2.1.11 Temperature Button

Pressing the temperature button displays the actual vat temperature and the setpoint temperature (see Figure 11).



Figure 11

4.2.1.12 Menu Button

Pressing the menu button allows switching between different menus if configured (see Figure 12).



Figure 12

4.2.1.13 Energy Saver Button

Pressing the energy saver button switches the fryer from a standard setpoint to a lower temperature setpoint when the fryer is idle, to save energy costs (see Figure 13).



Figure 13

4.2.1.14 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 14).



Figure 14

4.2.1.15 Manual Oil Top Off Button

Pressing the manual oil top off button allows the user to manually top off the vat of oil (see Figure 15).



Figure 15

4.2.1.16 Escape Menu Items

To escape or back out of MENUS and SUB-MENUS, press the Home or Back arrow button (see Figure 16).

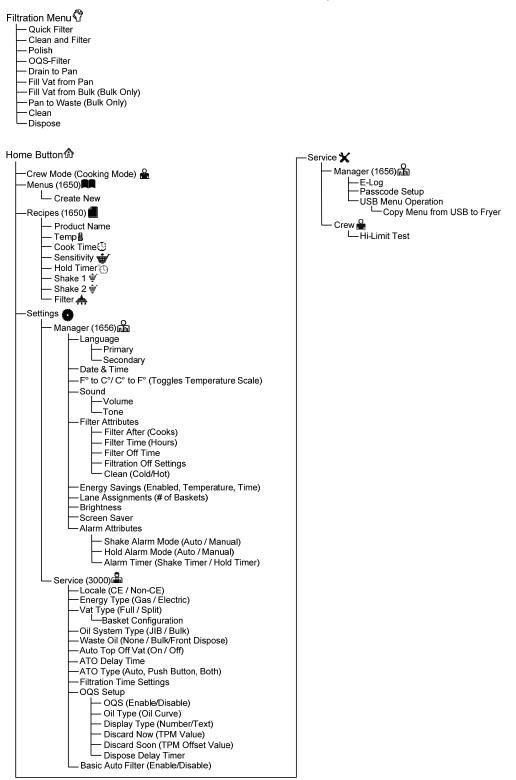




Fiaure 16

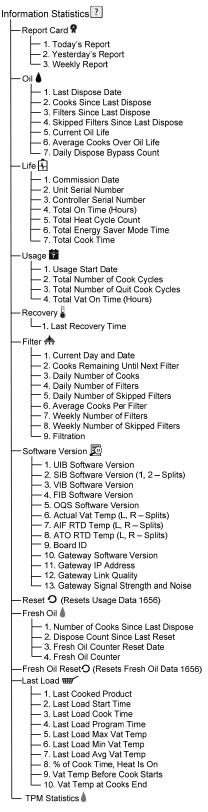
4.3 FQ4000 Menu Summary Tree

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.



4.4 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.



4.5 Basic Operation

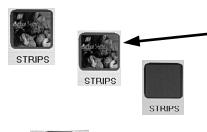
FQ4000 Basic Operation



Turn Fryer ON or OFF

Press and hold button to switch on. Press button to switch off. Select button on desired side of a split vat. If the vat is **FULL** press the ✓ check ✓ YES button.





Changing a 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 another product.





Start a Cook Cycle

 Press the product button to start a cook. The timer will start counting down.



Press the RED "X" button next to the desired product.

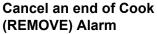






Cancel Shake Alarm

Press button under active display.



Press REMOVE or CHECK button under active display.

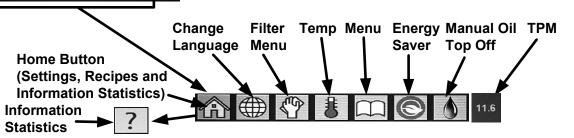




Press temperature button.

Displays actual temperature and setpoint temperature.





Cooking 4.6

Cooking with the FQ4000

A product is shown in display. Choose a different product 1 press and hold the product button to change. The outline of the button changes from green to red and then to solid red. Select another product.









2 Press the product button to begin the cook cycle.



3 Display changes to timer with remaining cook time.



4 SHAKE alternating with basket is displayed when it is time to shake the fry basket.





5 Press SHAKE/BASKET button to cancel SHAKE alarm.





REMOVE alternating with the CHECKMARK is displayed when the cook cycle is complete.





7 Press the REMOVE/CHECKMARK button to cancel alarm.





HOLD TIMER is displayed below the product button as the hold timer counts 06:52 down.



HOLD EXPIRED alternating with the CHECKMARK is displayed when the hold time has elapsed and expired.





10 Pressing the HOLD EXPIRED/CHECKMARK button restores the display to the current selected product and the unit is ready for cooking.



4.7 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
	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 3000
√	5.	Press the $\sqrt{\text{(check)}}$ button.
□ LOCALE	6.	Press the Locale button.
CE NON-CE	7.	Select CE or NON-CE . CE (European Conformity standards) or Non-CE (non-European standards)
SETUP COMPLETE RESTART THE SYSTEM	8.	No action.
✓	9.	Press the $\sqrt{\text{(check)}}$ button.
□ ENERGY TYPE	10.	Press the Energy Type button.
GAS ELECTRIC	11.	Select GAS or ELECTRIC
SETUP COMPLETE RESTART THE SYSTEM	12.	No action.
✓	13.	Press the $\sqrt{\text{(check)}}$ button.
□ VAT TYPE	14.	Press the Vat Type button.
FULL VAT SPLIT VAT	15.	
6	16.	Select Basket Configuration. Set for 2 to have 2 products per side available or 6 to have 6 products per side available.
LANE 1/4 LANE 2/4 LANE 3/4 LANE 4/4	17.	Press the Product icon and choose the desired product. Repeat for other lanes.
	18.	Press the Save button when complete.
SETUP COMPLETE RESTART THE SYSTEM	19.	No action.
✓	20.	Press the $\sqrt{\text{(check)}}$ button.
\Box	21.	Press the Down arrow button.
□ OIL SYSTEM TYPE	22.	Press the Oil System Type button.
JIB BULK	23.	Select JIB or BULK . NOTE: A JIB (Jug in a Box) or BIB (Bag in a Box) is a disposable type

DISPLAY	ACTION
3.01-3.1	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	24. No action.
✓	25. Press the √ (check) button.
□ WASTE OIL	26. Press the Waste Oil button.
NONE BULK FRONT DISPOSE	27. Select NONE, BULK or FRONT DISPOSE. NOTE: 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. Select FRONT DISPOSE if disposing to a front type of disposal.
SETUP COMPLETE RESTART THE SYSTEM	28. No action.
✓	29. Press the √ (check) button.
□ AUTO TOP OFF VAT	30. Press the Auto Top Off Vat button.
	31. Select LEFT VAT or RIGHT VAT for split vats.
ON OFF	32. Select ON unless top off is not desired for this vat. Default is ON .
①	33. Press the Down arrow button.
☐ ATO DELAY TIME	34. Press the ATO Delay time button.
30 MINUTES	35. 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. Enter a value greater than 0 for solid shortening. The default is 30 minutes to allow time for the shortening to start melting before top off begins. Set the value to 0 for liquid shortening.
SETUP COMPLETE	36. No action.
\	37. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ ATO TYPE	38. Press the ATO Type button.
AUTO PUSH BUTTON BOTH	39. Select AUTO if auto top if auto top off is installed. Select PUSH BUTTON if only manual top off is installed. Select BOTH if both auto and manual top off are installed and desired.
SETUP COMPLETE	40. No action.
√	41. Press the √ (check) button inside the SETUP COMPLETE box.
☐ FILTRATION TIME SETTINGS	42. Press the Filtration Time Settings button.
□ POLISH TIME □ CLEAN TIME □ AUTO FILTER FLUSH TIME □ CLEAN & FILTER FLUSH TIME	 43. These settings should only be adjusted if instructed by the factory. The default settings are: □ POLISH TIME -300 □ CLEAN TIME -3600
	□ AUTO FILTER FLUSH TIME -25
Y	□ CLEAN & FILTER FLUSH TIME -25

DISPLAY	ACTION
	Press the back button when complete.
□ OQS SETUP	44. Press the OQS Setup button if an OQS sensor is installed.
□ OQS ENABLE/DISABLE	45. Press OQS ENABLE/DISABLE button to enable/disable the OQS sensor.
ENABLE DISABLE	46. Select ENABLE to enable the OQS sensor or DISABLE to disable the OQS sensor.
SETUP COMPLETE	47. No action.
	48. Press the √ (check) button inside the SETUP COMPLETE box.
□ OIL TYPE	49. Press the Oil Type button.
OC01v01, OC02v01, etc.	50. Select the correct oil type curve. Press the down arrow 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	51. No action.
	52. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISPLAY TYPE	53. Press the Display Type button.
NUMBER TEXT	54. Select NUMBER or TEXT . 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	55. No action.
	56. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISCARD NOW	57. Press the Discard Now button.
TPM VALUE	58. 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.
1 2 3 4 5 X X 6 7 8 9 0 C X	59. Use the keypad to enter the TPM discard now value.
V	60. Press the √ (check) button once the value is entered.
	61. Press the $\sqrt{\text{(check)}}$ button to save the value.
SETUP COMPLETE	62. No action.
	63. Press the √ (check) button inside the SETUP COMPLETE box.
\Box	64. Press the down arrow button.
□ DISCARD SOON	65. Press the Discard Soon button.
TPM VALUE	66. Press the number above Discard Soon TPM Value. This value is typically chosen as a number below the TPM Discard Now value.

DISPLAY	ACTION
	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.
1 2 3 4 5 XX XX 6 7 8 9 0 C XX	67. Use the keypad to enter the TPM discard soon value.
	68. Press the √ (check) button once the value is entered.
√	69. Press the √ (check) button to save the value.
SETUP COMPLETE	70. No action.
√	71. Press the √ (check) button inside the SETUP COMPLETE box.
□ DISPOSE DELAY TIMER	72. 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	73. Press the hour's box to enter a delay time in hours.
TAME 1 2 3 4 5 XX 6 7 8 9 0 C Capy Touch	74. Using the key pad, enter the time in hours.
0 : 30 HOURS MINUTES	75. 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	76. Using the key pad enter the time in minutes.
√	77. Press the √ (check) button to save the value.
SETUP COMPLETE	78. No action.
	79. Press the √ (check) button inside the SETUP COMPLETE box.
\frac{1}{2}	80. Press the back button when complete.

DISPLAY	ACTION
₽	81. Press the down arrow button.
☐ BASIC AUTO FILTER	82. Press the Basic Auto Filter button.
ENABLE DISABLE	83. Select ENABLE to enable Basic Auto Filter (Auto Filtration for units without AIF or OIB probes) or DISABLE to disable Basic Auto Filtration.
SETUP COMPLETE	84. No action.
✓	85. Press the √ (check) button inside the SETUP COMPLETE box.
	86. Press the Home button.
CREW MODE	87. Press the Crew Mode button.
	88. Press and hold the reset switch inside the left door for thirty (30) seconds.
	89. The system reboots in approximately 45 seconds and returns to off/standby mode.

4.8 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.

DISPLAY	ACTION
	With the controller at the off/standby position, press the Home button.
	2. Press the Settings button.
	3. Press the Manager button.
1656	4. Enter 1656
	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.

DISPLAY	ACTION
\Box	11. Press the Back button.
□ DATE & TIME	12. Press the Date & Time button.
(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 X	15. Using the key pad, enter the time in hours.
08 : 22	16. Press the minute's box.
1 2 3 4 5 XX X 6 7 8 9 0 C	17. Using the key pad enter the time in minutes.
AM PM 24hr	18. Press the AM, PM or 24HR button.
√	19. Press the √ (check) button.
SETUP COMPLETE	20. No action.
√	21. Press the smaller $\sqrt{\text{(check)}}$ button inside the SETUP COMPLETE box.
7	22. Press the Set Date button
DD:MM:YY MM:DD:YY	23. Press the Date Format box to toggle between MM-DD-YY or DD-MM-YY.
2017	24. At the top of the screen, the year is shown. Press the left or right arrow to select the year.
MARCH	25. Below the year is the month. Press the left or right arrow to select the month.
	26. Select the date using the numbered keys and press the $\sqrt{\text{(check)}}$ button.
SETUP COMPLETE	27. No action.
/	28. Press the smaller $\sqrt{\text{(check)}}$ button inside the SETUP COMPLETE box.
	29. Press the DST (DAYLIGHT SAVINGS TIME) SETUP button.
□ DST ON/OFF	30. Press the DST ON/OFF button.

DISPLAY	ACTION
ON OFF	31. Select ON to enable DST or OFF to disable DST.
SETUP COMPLETE	32. No action.
	33. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ DST SETTINGS	34. Press the DST SETTINGS button.
DST START MONTH DST START SUNDAY DST END MONTH DST END SUNDAY	35. Select any of these and use the keypad to modify. The default settings for the US are: DST START MONTH -3 DST START SUNDAY -2 DST END MONTH -11 DST END SUNDAY -1
	36. Press the $\sqrt{\text{(check)}}$ button when complete.
SETUP COMPLETE	37. No action.
√	38. Press the smaller √ (check) button inside the SETUP COMPLETE box.
\Box	39. Press the Back button three (3) times.
□ F° TO C°	40. Press the F° TO C° or F° TO C° button. NOTE: F is used for Fahrenheit, C is used for Celsius
CONFIRM	41. Select YES to toggle the temperature scale.
COMPLETED SUCCESSFULLY	42. Press the $\sqrt{\text{(check)}}$ button when complete.
	43. Press the Sound button.
	44. 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 customize the sound.
	45. Press the $\sqrt{\text{(check)}}$ button when complete.
SETUP COMPLETE	46. No action.
√	47. Press the smaller √ (check) button inside the SETUP COMPLETE box.
4	48. Press the Down button.
□ FILTER ATTRIBUTES	49. Press the Filter Attributes button. The auto filtration mode uses two measures before prompting to filter. One checks for cook cycles which is adjusted in the FILTER AFTER setting and the other checks for time which is adjusted in the following section FILTER TIME setting. The prompt for filtration is initiated by whichever occurs first; either the number of cycles elapsed or time elapsed.
□ FILTER AFTER	50. Press the FILTER AFTER button. The FILTER AFTER option is used to set the number of cooking cycles which occur before the filtration

DISPLAY		ACTION
		prompt is displayed.
√	51.	Press the $\sqrt{\ }$ (check) button to continue or press the number button and enter the number of cooks and press the $\sqrt{\ }$ (check) button
	52.	Press the √ (check) button.
SETUP COMPLETE	53.	No action.
	54.	Press the smaller $\sqrt{\mbox{(check)}}$ button inside the SETUP COMPLETE box.
□ FILTER TIME	55.	Press the Filter 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.
	56.	Press the $\sqrt{\text{(check)}}$ 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 $\sqrt{\text{(check)}}$ button. (By default the time is set to 0 hours.)
	57.	Press the √ (check) button.
SETUP COMPLETE	58.	No action.
✓	59.	Press the smaller $\sqrt{\mbox{(check)}}$ button inside the SETUP COMPLETE box.
□ FILTER OFF TIME	60.	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	61.	Select ON to enable FILTER OFF TIME. Select OFF to disable FILTER OFF TIME.
□ FILTRATION OFF SETTINGS	62.	Press the Filtration Off Settings button. The Filtration Off Settings option is used to set the times in which the filter prompt is disabled (ex. noon rush). NOTE: If FILTER OFF TIME is disabled (OFF), this option is grayed out and not available.
FILTER OFF SETTINGS M-F 1 START HOURS MINUTES 11 00 02 00 V AM PM Caty Touch	63.	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.)
✓	64.	Once the times are selected press the $\sqrt{\mbox{(check)}}$ button.
SETUP COMPLETE	65.	Press the smaller $\sqrt{\text{(check)}}$ button inside the SETUP COMPLETE box.
Ū.	66.	Press the Down button.
□ CLEAN	67.	Press the Clean button. Choose HOT (Boil Out) or COLD (Cold Soak).

DISPLAY	ACTION
SETUP COMPLETE RESTART THE	
SYSTEM	60 5 4 // 11 11 11
√	68. Press the √ (check) button.
\Box	69. Press the Back button.
□ ENERGY SAVINGS	70. Press the Energy Savings button. The Energy Savings option is used during idle periods to lower the frypot temperature to save energy.
OFF ON	71. Press the Enable button to toggle the Energy Saving option on or off.
/	72. 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.
	73. 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.
	74. Press the √ (check) button.
SETUP COMPLETE	75. No action.
✓	76. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ LANE ASSIGNMENTS	77. Press the Lane Assignments button. This is used to set the number of products per vat.
6	78. Press the 6 button to have 12 products per vat (6 per side) available, or 2 to have 2 products per side (4 per vat) available.
	79. Press the icon below each lane and choose the associated product to cook in that lane.
	80. Press the save button.
SETUP COMPLETE RESTART THE SYSTEM	81. No action.
√	82. Press the smaller √ (check) button inside the SETUP COMPLETE RESTART THE SYSTEM box.
□ BRIGHTNESS	83. Press the Brightness button. This is used to set the brightness of the screen. Use the up down arrows to adjust. (Default is 100.)
	84. Press the √ (check) button.
SETUP COMPLETE	85. No action.
	86. Press the smaller √ (check) button inside the SETUP COMPLETE box.
□ SCREEN SAVER	87. 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.)

DISPLAY	ACTION
	88. 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.
✓	89. Press the $\sqrt{\text{(check)}}$ button when complete.
SETUP COMPLETE	90. No action.
	91. Press the smaller √ (check) button inside the SETUP COMPLETE box.
☐ ALARM ATTRIBUTES	92. Press the Alarm Attributes button
□ SHAKE ALARM MODE	93. Press the Shake Alarm Mode button. Select Auto or Manual. The Shake Alarm Mode allows the user to select between auto or manual shake alarm cancel.
SETUP COMPLETE RESTART THE SYSTEM	94. Press the √ (check) button.
□ HOLD ALARM MODE	95. Press the Hold Alarm Mode button. Select Auto or Manual. The Hold Alarm Mode allows the user to select between auto or manual hold alarm cancel.
SETUP COMPLETE RESTART THE SYSTEM	96. Press the √ (check) button.
□ ALARM TIMER	97. Press the Alarm Timer button. These settings allow the user to select the amount of time before auto cancelling the shake alarm timer or hold alarm. Default settings are 5 seconds.
SETUP COMPLETE RESTART THE SYSTEM	98. Press the √ (check) button.
\Box	99. Press the Back button.
	100. Press the Home button.
CREW MODE	101. Press the Crew Mode button.
	102. Press and hold the reset switch inside the left door for thirty (30) seconds.
	103. The system reboots in approximately 45 seconds and returns to off/standby mode.

4.9 Adding or Editing Existing ProductsThis function is used to add additional products or edit existing products. 4.9

DISPLAY	ACTION
	1. Press the Home button.
	2. Press the Recipes button.
1650	3. Enter 1650
I	4. Press the $\sqrt{\text{(check) button.}}$
ALL RECIPES ALL R	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.
ALL RECPES IN THE Q W E R T Y U I O P A S D F G H J K L 1 Z X C V B N M X 7123 SPACE	7. Enter or change the name of the product using the keyboard.
	8. Press the $\sqrt{\text{(check)}}$ button.
## SENSITIVITY 5-9 SANS S	9. This screen displays the current setpoint, cook time, sensitivity, hold timer, shake timers and filter settings. To edit a parameter press the item to edit.
	10. To edit temperature press the temp button.
NEW RECIPE 1	11. Use the keypad to enter or edit the cook temperature for the product.
√	12. Press the $\sqrt{\text{(check) button.}}$
<u>(</u>)	13. Press the cook time button.

DISPLAY	ACTION
NEW RECIPE 03:10 1 2 3 4 5 X 6 7 8 9 0 C Cassy Touch	14. Use the keypad to enter or edit the cook time in minutes and seconds.
\	15. Press the √ (check) button.
	16. Press the load compensation or sensitivity button.
NEW RECIPE LOAD SIZE W W Casy Touch	17. Use the up and down arrows to change the load compensation or sensitivity setting recommended for this product. This setting allows the product compensation (sensitivity) to be changed. Some menu items may need an adjustment, depending on their cooking characteristics. NOTE: It is highly recommended to NOT adjust this setting, as it could have an adverse effect on the products cooking cycles. The default setting for product compensation is set to four.
√	18. Press the √ (check) button.
Щ.	19. Press the Hold Timer button.
NEW RECIPE 07.00 1 2 3 4 5 X X 6 7 8 9 0 C Casy Touch	20. Enter the time in minutes and seconds for the product hold time.
	21. Press the √ (check) button.
	22. Press the Shake Timer 1 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.
	25. Press the down arrow to scroll to more settings.

DISPLAY	ACTION
	26. Press the Shake Timer 2 button if an additional shake is needed, otherwise skip to step 30.
NEW RECIPE 00 30	27. Enter the time in minutes and seconds for the seconds shake to be performed.
	28. Press the √ (check) button.
	29. Press the Filter button.
NEW RECIPE OFF OSS CASS TOUCH	30. Ensure that the filter button is ON to enable auto filtration for this product. This setting is used to prevent co-mingling of product specific oils. For products such as FISH, select NO to prevent auto filtration if desired.
	31. Press the √ (check) button.
CHOOSE ICON FOR THE RECIPE CHOOSE ICON FOR THE RECIPE C	32. Choose the icon to associate with the product recipe that is being entered or edited.
1	33. Press the √ (check) button.
CHOOSE THE MENUS ALL RECIPES BRIGHAY AST LUNCH CHANGE OFFER 12-17-2014 GBBY 06:53 AM TOUCH	34. Choose the menu(s) to associate with the product recipe that is being entered or edited.
1	35. Press the √ (check) button.
SAVED	36. The controller displays SAVED.
	37. Press the √ (check) button.
	38. Select another product to edit or press the + key to add additional products. If finished press the home button.

DISPLAY	ACTION
CREW MODE	39. Press the Crew Mode button to return to main screen.

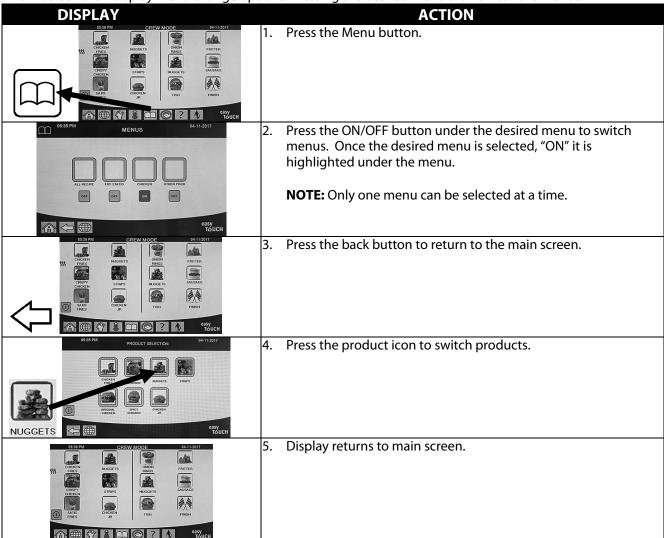
4.10 Adding or Editing Menus

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 amount of products to choose from.

DISPLAY	ACTION
	1. Press the Home button.
	2. Press the Menus button.
1650	3. Enter 1650
	4. Press the √ (check) button.
MENUS MENUS LUNCH GUY GUY GUY GUY GUY GUY GUY GU	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 FIRES CHICKEN SATS TENGER TOUCH FIRES CHICKEN STREET FIRES CHICKEN SATS TENGER FIRES CHICKEN SATS FIRES	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.
\frac{1}{2}	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.

4.11 Changing Menus

If separate menus are created for Fry Station, Chicken or Other Product, pressing the MENU button from the main screen shall display menu change options. Pressing the desired menu shall switch the menus.



4.12 Service Tasks

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

4.12.1 High Limit Test

The high-limit test mode is used to test the high limit circuit. The high-limit test will destroy the oil. It should only be performed with old oil. Shut the fryer off and call for service immediately if the temperature reaches 460°F (238°C) without the second high-limit tripping and the controller displays HIGH LIMIT FAILURE DISCONNECT POWER with an alert tone during testing.

The test is cancelled at any time by turning the fryer off. When the fryer is turned back on, it returns to the operating mode and displays the product.

DISPLAY	ACTION
	1. With the controller at the off/standby position, press the Home button.

DISPLAY	ACTION
×	2. Press the Service button.
	3. Press the Crew button.
	4. Select LEFT VAT or RIGHT VAT for split vats.
PRESS AND HOLD	5. Press and hold the Press and Hold button to begin high limit test.
RELEASE	6. While pressing and holding the button the vat begins to heat. The controller displays the actual vat temperature during the test. When the temperature reaches 410°F ± 10° F (210°C ± 12°C)*, the controller displays HOT HI-1 (ex. 410F) and continues heating. *NOTE: In controllers used in the European Union (those with the CE mark), the temperature is 395°F (202°C) when the controller displays HOT HI-1.
HOT HI-1	7. While continuing to press and hold the button, the fryer continues heating until the high limit opens. Generally this happens once the temperature reaches 423°F to 447°F (217°C to 231°C) for non-CE high limits and 405°F to 426°F (207°C to 219°C) for CE high limits.
HELP HI-2	8. Release the button. The vat stops heating and the controller displays the current temperature setting until the temperature cools below 400°F (204°C). Press the power button to cancel the alarm.
HIGH LIMIT FAILURE DISCONNECT POWER	9. If the controller displays this message, disconnect power to the fryer and immediately call for service.
	10. After a high limit test, once the vat cools below 400°F (204°C), dispose of the oil.

4.12.2 Manager Functions

4.12.2.1 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 7.6 of this manual.

DISPLAY	ACTION
	1. Press the Home button.
×	2. Press the Service button.
	3. Press the Manager button.
1656	4. Enter 1656
	5. Press the √ (check) button.
□ E-LOG	6. Press the E-LOG button. The three most recent errors are shown.

DISPLAY	ACTION
\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.

4.12.2.2 Passcode SetupThe 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 1656
1	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 X X 6 7 8 9 0 C X	8. Use the keypad to enter new passcode for the selected item.
I	9. Press the $\sqrt{\text{(check)}}$ button.
RETYPE PASSWORD	10. Use the keypad to enter the new passcode again to verify.
I	11. Press the √ (check) button.
PASSCODE SETUP SUCCESSFUL	12. Press the √ (check) button.
□ MENUS□ RECIPES□ SETTINGS MANAGER	13. Press the Back button to return to menu or press the Home button to exit.

DISPLAY	ACTION
□ DIAGNOSTICS MANAGER	
CREW MODE	14. Press the Crew Mode button.

4.12.2.3 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 1656
	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 far left 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 WHILE READING	10. No action required.
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. NOTE: Ensure the switch is pressed and held for at least 30 seconds.

4.13 Information Statistics

4.13.1 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 Information button.

DISPLAY	ACTION
	2. Press the Report Card button.
□ TODAY'S REPORT □ YESTERDAY'S REPORT □ WEEKLY REPORT	3. Select the desired report
? 04-09 PM YESTERDAY'S REPORT 03-03-2017 Fryer Grade 'A' 03-03-2017	4. The report will display the grade based
FILTRING WHEN PROMPTED 85% OQS MEASURED FRYPOT UTILIZATION OPTIMIZED 90%	on if the crew is filtering when prompted; if OQS is being measured regularly; the current quality of the oil; and the fryer usage.
C	
	5. Press the back button to return to menu or the home button to exit.

4.13.2 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
?	Press the Home button and then the Information button.
	2. Press the Oil button.
 LAST DISPOSE DATE COOKS SINCE LAST DISPOSE FILTERS SINCE LAST DISPOSE SKIPPED FILTERS SINCE LAST DISPOSE 	3. Press the down arrow to scroll to more statistics.
5. CURRENT OIL LIFE 6. AVERAGE COOKS OVER OIL LIFE 7. DAILY DISPOSE BYPASS COUNT	Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

4.13.3 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
?	Press the Home button and then the Information button.
4	2. Press the Life Stats button.
 COMMISSION DATE UNIT SERIAL NUMBER CONTROLLER SERIAL NUMBER TOTAL ON TIME (HOURS) TOTAL HEAT CYCLE COUNT TOTAL ENERGY SAVER MODE TIME TOTAL COOK TIME 	3. Press the back button to return to menu or the home button to exit.

4.13.4 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
?	Press the Home button and then the Information button.
7	2. Press the Usage Stats button.
 USAGE START DATE TOTAL NUMBER OF COOK CYCLES TOTAL NUMBER OF QUIT COOK CYCLES TOTAL VAT ON TIME (HOURS) 	Press the back button to return to menu or the home button to exit.

4.13.5 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°F (28°C) between 250°F (121°C) and 300°F (149°C). Maximum recovery time should not exceed 1:40 for electric or 3:15 for gas.

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

DISPLAY	ACTION
	button to exit.

4.13.6 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.

	DISPLAY		ACTION
	?	1.	Press the Home button and then the Information button.
		2.	Press the Filter button.
	□ DAY 1 □ DAY 2 □ DAY 3 □ DAY 4	3.	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.)	4.	Press the down arrow to scroll to more statistics.
6.7.8.	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.) FILTRATION - (Displays if filtration is enabled or disabled. Diagnostic tool to determine status of FIB board.)	5.	Press the up arrow to scroll up or the back button to return to select another day.
		6.	Press the back button to return to menu or the home button to exit.

4.13.7 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.

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

4.13.8 Reset Usage Statistics

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

DISPLAY	ACTION
?	Press the Home button and then the Information button.
\Box	2. Press the down arrow button.
•	3. Press Reset button.
1656	4. Enter 1656

DISPLAY	ACTION
1	5. Press the √ (check) button.
ALL USAGE DATA HAS BEEN RESET	6. Press the √ (check) button.
	7. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

4.13.9 Fresh Oil Statistics

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

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

4.13.10 Fresh Oil Reset Usage Statistics
The reset function resets all fresh oil data in the fresh oil statistics.

DISPLAY	ACTION
?	Press the Home button and then the Information button.
\Box	2. Press the down arrow button.
O	3. Press Fresh Oil Reset button.
1656	4. Enter 1656
	5. Press the √ (check) button.
FRESH OIL DATA HAS BEEN RESET	
	6. Press the √ (check) button.
	7. Press the back button to return to menu or the home button to exit.

4.13.11 Last Load Statistics

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

DISPLAY	ACTION
?	Press the Home button and then the Information button.
	2. Press the Last Load button.
 LAST COOKED PRODUCT LAST LOAD START TIME LAST LOAD COOK TIME LAST LOAD PROGRAM TIME 	
\bigcirc	3. Press the down arrow to scroll to more statistics.
 5. LAST LOAD MAX VAT TEMP 6. LAST LOAD MIN VAT TEMP 7. LAST LOAD AVG VAT TEMP 8. % OF COOK TIME, HEAT IS ON 9. VAT TEMP BEFORE COOK STARTS 10. VAT TEMP AT COOKS END 	Press the down arrow to scroll to more statistics.
	5. Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

4.13.12 TPM Statistics

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

DISPLAY	ACTION
?	Press the Home button and then the Information button.
	Press the TPM Statistics button. The TPM values for the previous valid seven (7) days are listed.
	Press the up arrow to scroll up; the back button to return to menu or the home button to exit.

FILTERQUICK™ FQGLA-T GAS FRYER CHAPTER 5: FILTRATION MENU INSTRUCTIONS

5.1 Introduction

The filtration system allows the oil in one frypot to be safely and efficiently filtered while the other frypots in a battery remain in operation.

Section 5.2 covers preparation of the filter system for use. Operation of the system is covered in Section 5.3.

A 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.

MARNING

The filter pad or paper MUST be replaced daily.

5.2 Preparing the Filter for Use

1. Pull the filter pan out from the cabinet slightly and wait until the dripping stops before completely removing the pan (shown below). Remove the crumb tray, hold-down ring, filter pad (or paper), and filter screen (See Figure 1). Clean all metal parts with a solution of detergent and hot water then dry thoroughly.



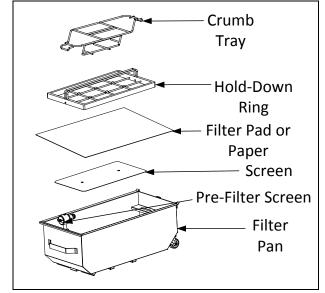


Figure 1

2. Inspect the filter pan connection fitting to ensure that both O-rings are in good condition (See Figure 2). Ensure the pre-filter screen is installed, clean and tight.

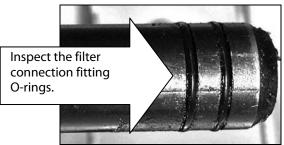


Figure 2

3. Then in reverse order, place the metal filter screen in the center of the bottom of the pan, then lay a filter pad over the screen, ensuring that the **rough** side of the pad is up. Make sure that the pad is in between the embossed ridges of the filter pan. Then position the hold down ring on top of the pad. If using filter

paper, lay a sheet of filter paper over the top of the pan overlapping on all sides. Position the hold down ring over the filter paper and lower the ring into the pan, allowing the paper to fold up and around the ring as it is pushed to the bottom of the pan. Then sprinkle 1 packet (8-ounces) of filter powder over the filter paper.

DO NOT USE FILTER POWDER WITH THE PAD!

- 4. Reinstall the crumb tray at the front of the pan. (See Figure 1)
- 5. Push the filter pan back into the fryer, positioning it under the fryer. Ensure "**P**" is not displayed in the top right corner of any controller. The filtration system is now ready for use.

⚠ 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.

⚠ 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.

M WARNING

Do not bang fry baskets or other utensils on the fryer's joiner strip. The strip is present to seal the joint between the fry vessels. Banging fry baskets on the strip to dislodge shortening will distort the strip, adversely affecting its fit. It is designed for a tight fit and should only be removed for cleaning.

5.3 Filtration Menu

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

•	Quick Filter – Filter Prompt	page 5-3
•	Quick Filter – On Demand	page 5-4
•	Clean and Filter	page 5-6
•	Polish	page 5-8
•	OQS (Oil Quality Sensor) - Filter	page 5-9
•	Drain to Pan	page 5-11
•	Fill Vat from Pan	page 5-13
•	Fill Vat from Bulk (Bulk Only)	page 5-13
•	Pan to Waste (Bulk Only)	page 5-14
•	Clean (Boil-Out [Hot] or Cold Clean for Non-Bulk Systems)	page 5-16
•	Clean (Boil-Out [Hot] or Cold Clean for Bulk/Front Dispose Waste Systems)	page 5-18
•	Dispose Oil (Non-Bulk Systems)	page 5-21
•	Dispose Oil (Bulk/Front Dispose Systems)	page 5-23

5.3.1 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 FILTER NOW?	 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 controller will prompt again soon to filter the oil. This sequence repeats until a filter is completed. On some configurations this message may not appear. Displayed if
OIL LEVEL TOO LOW	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.
REMOVE FILTER PAN	3. Carefully pull the filter pan from the fryer. A DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	4. If the filter pan is empty press the √ (check - YES) button and proceed to the next step. If the pan is not empty, press the X (NO) button. Filtering is cancelled and the fryer resumes normal operation. Remove the oil from the pan and after inserting the filter pan, retry the function.
SKIM DEBRIS FROM VAT - PRESS CONFIRM WHEN COMPLETE	 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.
START FILTRATION	6. Press the BLUE button to start filtration.
INSERT PAN	7. Push the filter pan fully into place. Displayed if the filter pan is not fully engaged.
DRAINING	8. No action required.
FLUSHING	9. No action required.
FILLING	10. No action required.
IS VAT FULL?	11. On some configurations this message may not appear. Press the √ (check -YES) button if the vat is full to continue. The controller returns to idle cook mode. Press X (NO) if the vat is not filled completely and the pump will run again.
PREHEAT	12. No action required. Displayed until the fryer reaches setpoint.
START	13. Fryer is ready for use. Displayed once fryer reaches setpoint.

The complete filtering process takes roughly four minutes.

If the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function. See section 7.3.1.

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

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

5.3.2 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
CREW MODE OCHOCK OCHOCK NUGGETS OCHOCK OC	The fryer MUST be at setpoint temperature. Press the filtration menu button.
	2. Select LEFT VAT or RIGHT VAT for split vats.
GLEAN AND FILTER QUICK FILTER CLEAN AND FILTER POLISH OQS - FILTER Casy Touch	3. Select QUICK FILTER.
QUICK FILTER NOW?	 Press the √ (check - YES) button to start filtration. If the X (NO) button is selected, filtering is cancelled and the fryer resumes normal operation.
OIL LEVEL TOO LOW	5. On some configurations this message may not appear. 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.
REMOVE FILTER PAN	6. Carefully pull the filter pan from the fryer. A DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	7. If the filter pan is empty press the √ (check - YES) button and proceed to the next step. If the pan is not empty, press the X (NO) button. Filtering is cancelled and the fryer resumes normal operation. Remove the oil from the pan and after inserting the filter pan, retry the function.
SKIM DEBRIS FROM VAT - PRESS CONFIRM WHEN COMPLETE	8. 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 of the oil. Press the √ (check - YES) button when complete.
START FILTRATION	9. Press the BLUE button to start filtration.
INSERT PAN	10. Push the filter pan fully into place. Displayed if the filter pan is not fully engaged.

DRAINING	11. No action required as oil drains into filter pan.
FLUSHING	12. No action required as debris is flushed from the vat.
FILLING	13. No action required as the vat refills.
	14. 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 cause
	damage or injury.
	damage of injury.
	15. On some configurations this message may not appear.
IS VAT ELILL 2	
IS VAT FULL?	15. On some configurations this message may not appear. Press the √ (check - YES) button if the vat is full to continue. The controller returns to idle cook mode. Press X (NO) if the
IS VAT FULL?	15. On some configurations this message may not appear. Press the √ (check - YES) button if the vat is full to continue.
IS VAT FULL? PREHEAT	15. On some configurations this message may not appear. Press the √ (check - YES) button if the vat is full to continue. The controller returns to idle cook mode. Press X (NO) if the

The complete filtering process takes approximately four minutes.

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, an error message is generated. Follow the instructions on the controller to clear the error.

If the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function. See section 7.3.1.

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

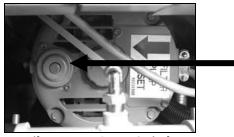
Do not drain more than one frypot at a time into the built-in filtration unit to avoid overflow and spillage of hot oil that may cause severe burns, slipping and falling.

A WARNING

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 photo below).

WARNING

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

5.3.3 Clean and Filter (or End of Day Filter)

The clean and filter operation is an extended filtration with additional prompts to thoroughly clean the vat. This typically is done once a day or at the endo of the day. 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.

If CLOSE DISPOSE VALVE is displayed, close the dispose valve. Press the X (NO) button to exit.

NOTICE

The filter pad or paper must be replaced daily.

⚠ WARNING

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.

DISPLAY	ACTION
CREW MODE O4-11-2017 OH 26 FM OR OF THE STATES OH OF THE STATE	The fryer MUST be at setpoint temperature. Press the filtration menu button.
	2. Select LEFT VAT or RIGHT VAT for split vats.
FILTRATION QUICK FILTER CLEAN AND FILTER POLISH OQS - FILTER Casy Touch	3. Select CLEAN AND FILTER.
CLEAN NOW?	 Press the √ (check - YES) button to start filtration. If the X (NO) button is selected, filtering is cancelled and the fryer resumes normal operation.
REMOVE FILTER PAN	5. Carefully pull the filter pan from the fryer. A DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	6. If the filter pan is empty press the √ (check - YES) button and proceed to the next step. If the pan is not empty, press the X (NO) button. Filtering is cancelled and the fryer resumes normal operation. Remove the oil from the pan and after inserting the filter pan, retry the function.
SKIM DEBRIS FROM VAT - PRESS CONFIRM WHEN COMPLETE	7. 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 of the oil. Press the √ (check - YES) button when complete.
WEAR PROTECTIVE GLOVES – PRESS CONFIRM WHEN COMPLETE	8. Press the √ (check - YES) button once all personal protection equipment including heat resistant gloves are in place.
START FILTRATION	9. Press the BLUE button to start filtration.

DISPLAY	ACTION
INSERT PAN	10. Push the filter pan fully into place. Displayed if the filter pan is not fully engaged.
DRAINING	11. No action required as oil drains into filter pan.
	12. Scrub the vat. Press the √ (check - YES) button when complete.
SCRUB INSIDE VAT – PRESS CONFIRM	▲ DANGER
WHEN COMPLETE	Keep all items out of drains. Closing actuators may cause
	damage or injury.
CLEAN SENSORS – PRESS CONFIRM WHEN COMPLETE	13. On some configurations this message may not appear. (Gas Only) Clean the oil level sensor with a no scratch pad. (All Fryers) Clean around AIF and ATO sensors with a screwdriver or similar object to remove any sediment from around the sensors and press the √ (check - YES) button when complete.
FLUSHING	14. No action required while the return valve opens and the vat is flushed with oil from the filter pan.
FLUSH AGAIN?	15. The filter pump shuts off. If the vat is clean of debris, press the X (NO) button to continue. If crumbs are still present, press the √ (check - YES) button and the filter pump runs again. This cycle repeats until the X (NO) button is pressed.
	16. 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 cause
	damage or injury.
RINSING IN PROGRESS	17. No action required while the drain valve closes and the filter pump refills the vat. The drain valve opens and rinses the vat.
RINSE AGAIN?	18. If the vat is clean of debris, press the X (NO) button to continue. If an additional rinse is desired, press the √ (check - YES) button and the rinse repeats until the X (NO) button is pressed.
POLISHING	19. No action required while the drain and return valves are open and oil is pumped through the frypot for five minutes.
	20. 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 cause
	damage or injury.
FILLING	21. No action required while the vat is refilled.
MEASURING OIL QUALITY	22. No action required while the OQS sensor calculates the oil quality value of the oil.
FILLING	23. No action required while the vat is refilled.
IS VAT FULL?	24. On some configurations this message may not appear. 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 oil level is at the top oil level full line. If the vat oil level is not completely filled, check the filter pan to see if most of the oil has returned. The pan may have a small amount of oil. Press the √ (check - YES) button once no oil remains in the filter pan. If OQS = Text and if the TPM reading is below OQS SETUP – DISCARD NOW and DISCARD SOON limits, proceed to OIL IS GOOD in step 25. If OQS = Text and if the TPM reading is below OQS SETUP – DISCARD NOW value but above DISCARD SOON limits, proceed to

DISPLAY	ACTION
	DISCARD SOON in step 26.
	If OQS = Text and if the TPM reading is above OQS SETUP –
	DISCARD limits, proceed to DISCARD NOW in step 26.
	If OQS = Number proceed to TPM - XX step in step 27.
OIL IS GOOD	25. Shown if OQS is set to text. Press the √ (check - YES) button to
OIE IS GOOD	continue to step 29.
DISCARD SOON	26. Shown if OQS is set to text. Press the √ (check - YES) button to
	continue to step 29.
TPM - XX	27. Press the √ (check - YES) button to continue. If the TPM reading is
	above OQS SETUP – DISCARD limits, proceed to next step,
	otherwise proceed to step 29.
DISCARD NOW?	28. Presses the √ (check - YES) button to continue to DISCARD NOW
	function (go to Dispose function for fresh oil/waste type). Press the
	X (NO) button to continue to the next step.
0	29. The controller switches off.

^{*}NOTE: After a clean and filter it is normal to leave some oil in the pan and the level of oil may not return to the level prior to starting clean and filter. Answering YES after two attempts at refilling the vat enables auto top off, if available, to compensate for any loss of oil during filtration.

5.3.4 Polish

The polish mode is used as an extended filtration to remove impurities from the oil.

DISPLAY	ACTION
CREW MODE CONCAN CREW MODE CONCAN FRUITER CHECKEN SAINS CHECKEN SAINS CHECKEN FRISH FRISH CREW CREW FRISH FRISH CREW CREW FRISH FRISH CREW CREW FRISH CREW CREW FRISH CREW CREW	The fryer <u>MUST</u> be at setpoint temperature. Press the filtration menu button.
	2. Select LEFT VAT or RIGHT VAT for split vats.
GL40 PM FILTRATION QUICK FILTER CLEAN AND FILTER POLISH OQS - FILTER Casy TOUCH	3. Select POLISH.
POLISH NOW?	 Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
OIL LEVEL TOO LOW	5. On some configurations this message may not appear. 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

DISPLAY	ACTION
	the JIB is low on oil. If JIB is not low and this continues to occur,
	contact your FAS.
	6. Carefully pull the filter pan from the fryer.
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. If the filter pan is empty press the √ (check - YES) button and
	proceed to the next step. If the pan is not empty, press the X (NO)
IS FILTER PAN EMPTY?	button. Filtering is cancelled and the fryer resumes normal
	operation. Remove the oil from the pan and after inserting the filter
	pan, retry the function.
SKIM DEBRIS FROM VAT -	8. Skim the crumbs from the oil with the skimmer using a front to back motion, removing as many crumbs as possible from each vat.
PRESS CONFIRM WHEN COMPLETE	This is critical to optimizing usable oil life and quality of the oil.
PRESS COM INW WHEN COMPLETE	Press the √ (check - YES) button when complete.
START POLISH	Tress the V (check Tes) satton when complete.
	9. Press the BLUE button to start a polish.
INSERT PAN	10. Push the filter pan fully into place. Displayed if the filter pan is not
	fully engaged.
DRAINING	11. No action required as oil drains into filter pan.
POLISHING	12. No action required while the drain and return valves are open and oil is pumped through the frypot for an extended period of time.
	13. 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	<u> </u>
ALERI BRAIN CEOSING NEMOVE 100ES	Keep all items out of drains. Closing actuators may cause
	damage or injury.
FILLING	14. No action required as the vat refills.
	15. On some configurations this message may not appear.
IC VATEUR 2	Press the √ (check - YES) button if the vat is full to continue. The
IS VAT FULL?	controller returns to idle cook mode. Press X (NO) if the vat is not
	filled completely and the pump will run again.
PREHEAT	16. No action required as the fryer heats to setpoint.
START	17. Fryer is ready for use. Displayed once fryer reaches setpoint.

5.3.5 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.

If CLOSE DISPOSE VALVE is displayed, close the dispose valve. Press the X (NO) button to exit.

NOTICE

The filter pad or paper must be replaced daily.

⚠ WARNING

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.

5.3.5 OQS (Oil Quality Sensor) Filter cont.

DISPLAY	ACTION
04:36 PM	ACTION
CHOSEN NAGGETS CHOSEN STIPPE CHICKEN STIPPE CHICKEN SAIDS SAIDS SAIDS FIRST FIRST FRESH CANCEL N CANCEL N FRESH CANCEL N CANCEL N FRESH FRESH CANCEL N FRESH FRES	The fryer <u>MUST</u> be at setpoint temperature. Press the filtration menu button.
	2. Select LEFT VAT or RIGHT VAT for split vats.
O4.40 PM FILTRATION O2.06.2017 QUICK FILTER CLEAN AND FILTER POLISH OGS - FILTER Casy Touch	3. Select OQS (Oil Quality Sensor) - FILTER.
OQS – FILTER NOW?	 Press the √ (check - YES) button to start filtration. If the X (NO) button is selected, filtering is cancelled and the fryer resumes normal operation.
OIL LEVEL TOO LOW	5. On some configurations this message may not appear. 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.
REMOVE FILTER PAN	6. Carefully pull the filter pan from the fryer. A DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	7. If the filter pan is empty press the √ (check - YES) button and proceed to the next step. If the pan is not empty, press the X (NO) button. Filtering is cancelled and the fryer resumes normal operation. Remove the oil from the pan and after inserting the filter pan, retry the function.
SKIM DEBRIS FROM VAT - PRESS CONFIRM WHEN COMPLETE	8. 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 of the oil. ⊕Press the √ (check - YES) button when complete.
START FILTRATION	9. Press the BLUE button to start filtration.
INSERT PAN	10. Push the filter pan fully into place. Displayed if the filter pan is not fully engaged.
DRAINING	11. No action required as oil drains into filter pan.
FLUSHING	12. No action required while the return valve opens and the vat is flushed with oil from the filter pan.
ALERT DRAIN CLOSING REMOVE TOOLS	13. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain.

DISPLAY	ACTION
	⚠ DANGER
	Keep all items out of drains. Closing actuators may cause
	damage or injury.
FILLING	30. No action required while the vat is refilled.
MEASURING OIL QUALITY	31. No action required while the OQS sensor calculates the oil quality value of the oil.
FILLING	32. No action required while the vat is refilled.
IS VAT FULL?	33. On some configurations this message may not appear. 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 oil level is at the top oil level full line. If OQS = Text and if the TPM reading is below OQS SETUP − DISCARD NOW and DISCARD SOON limits, proceed to OIL IS GOOD in step 18. If OQS = Text and if the TPM reading is below OQS SETUP − DISCARD NOW value but above DISCARD SOON limits, proceed to DISCARD SOON in step 19. If OQS = Text and if the TPM reading is above OQS SETUP − DISCARD limits, proceed to DISCARD NOW in step 21. If OQS = Number proceed to TPM - XX step in step 20.
OIL IS GOOD	34. Shown if OQS is set to text. Press the √ (check - YES) button to continue to step 22.
DISCARD SOON	35. Shown if OQS is set to text. Press the √ (check - YES) button to continue to step 22.
TPM - XX	36. Press the √ (check - YES) button to continue. If the TPM reading is above OQS SETUP – DISCARD limits, proceed to next step, otherwise proceed to step 22.
DISCARD NOW?	37. Presses the √ (check - YES) button to continue to DISCARD NOW function (go to Dispose function for fresh oil/waste type). Press the X (NO) button to continue to the next step.
PREHEAT	38. No action required as the fryer heats to setpoint.
START	39. Fryer is ready for use once fryer reaches setpoint.

NOTE: If the oil isn't completely returned during filtration, the system may proceed to an incomplete filtration function. See section 7.3.1.

5.3.6 Drain to Pan

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

DISPLAY	ACTION
CHECKEN CHECKEN NUCCETS PROCS FINITER PROCS SAUGE S TOUCH Casy Touch	1. Press the filtration menu button
	2. Select LEFT VAT or RIGHT VAT for split vats.

DISPLAY	ACTION
FILTRATION OZ.08.2017 OUICK FILTER CLEAN AND FILTER POLISH OQS - FILTER Casy Touch	3. Press the down arrow.
FILTRATION O2.08.3017 DRAIN TO PAN FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE CABY TOUCH	4. Select DRAIN TO PAN.
DRAIN NOW?	5. Press the √ (check - YES) button to continue. If the X (NO) button is
	selected, the controller goes to OFF. 6. Carefully pull the filter pan from the fryer.
REMOVE FILTER PAN	A DANGER Remove the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	7. If the filter pan is empty press the √ (check - YES) button and proceed to the next step. If the pan is not empty, press the X (NO) button. Filtering is cancelled and the fryer resumes normal operation. Remove the oil from the pan and after inserting the filter pan, retry the function.
START DRAINING	8. Press the BLUE button to start draining.
INSERT PAN	9. Push the filter pan fully into place. Displayed if the filter pan is not fully engaged.
DRAINING	10. No action is required while the vat drains the oil into the filter pan.
VAT EMPTY?	 11. Once the vat is empty, 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 all items out of drains. Closing actuators may cause damage or injury.
FILL FROM PAN?	13. Press the $\sqrt{\text{(check - YES)}}$ button to refill the vat, otherwise skip to step 20.
FILLING	14. No action is required while the vat is filling.
IS VAT FULL?	15. 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.
	16. The controller switches off.

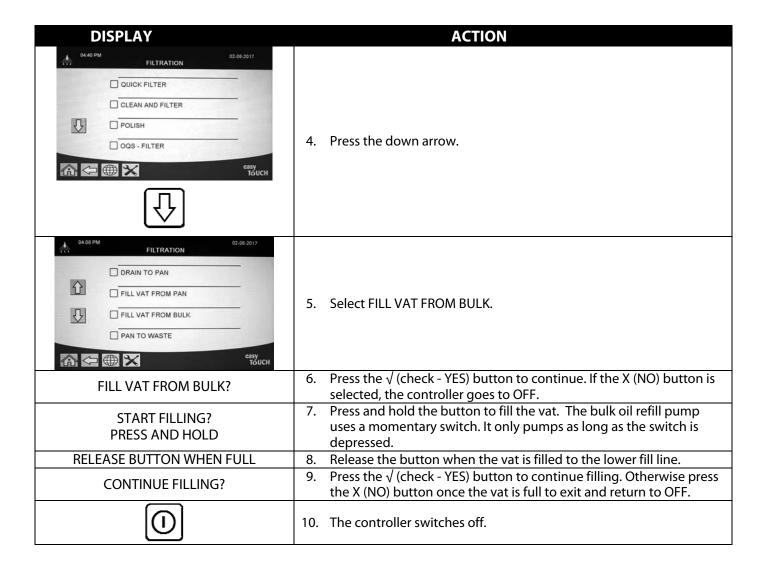
5.3.7 Fill Vat from (Filter) PanThe fill vat from pan function fills the vat from the filter pan.

DISPLAY	ACTION
0	1. The fryer MUST be OFF.
	2. Press the filtration menu button
	3. Select LEFT VAT or RIGHT VAT for split vats.
O4.40 PM FILTRATION QUICK FILTER CLEAN AND FILTER POLISH OQS - FILTER Carry Touch	4. Press the down arrow.
GA-08 PM FILTRATION DRAIN TO PAN FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE CREATER TO WASTE CREATER TO WASTE	5. Select FILL VAT FROM PAN. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
FILL FROM PAN?	6. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the controller goes to OFF.
FILLING	7. No action is required while the vat is filling.
IS VAT FULL?	8. 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.
0	9. The controller switches off.

5.3.8 Fill Vat from Bulk

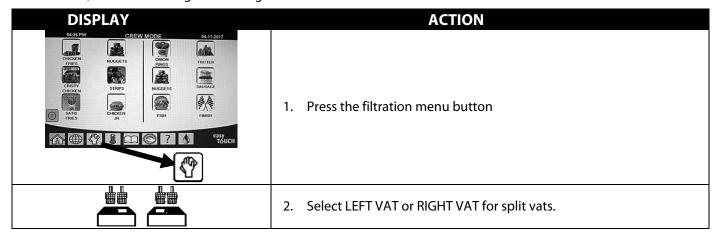
The fill vat from bulk function is used to fill the vat from a bulk oil fresh source.

DISPLAY	ACTION
0	1. The fryer MUST be OFF.
	2. Press the filtration menu button
	3. Select LEFT VAT or RIGHT VAT for split vats.



5.3.9 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.

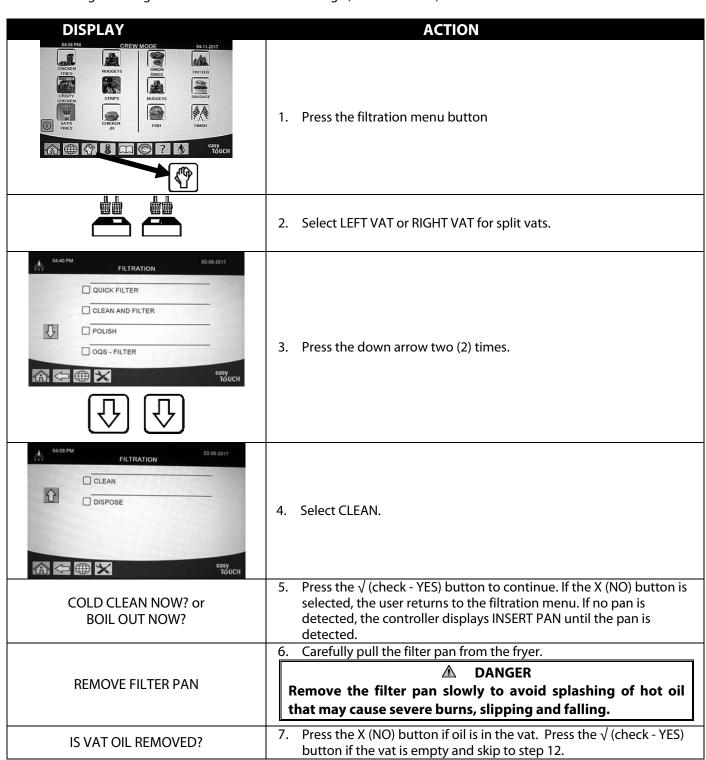


DISPLAY	ACTION
OLAG PIM FILTRATION QUICK FILTER CLEAN AND FILTER POLISH OQS - FILTER Casy Touch	3. Press the down arrow.
FILTRATION DRAIN TO PAN FILL VAT FROM PAN FILL VAT FROM BULK PAN TO WASTE CASY TOUCH	4. Select PAN TO WASTE.
PAN TO WASTE?	 Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
BULK TANK FULL?	6. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.
OPEN DISPOSE VALVE	7. Open the left cabinet door and unlock the valve if necessary. Pull the dispose valve completely forward to start disposal.
DISPOSING	8. No action is required while the pump transfers the waste oil from the pan to the bulk oil waste tanks for four (4) minutes.
REMOVE PAN	9. Carefully pull the filter pan from the fryer. A DANGER Open the filter pan slowly to avoid splashing of hot oil that may cause severe burns, slipping and falling.
IS PAN EMPTY?	10. 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 8.
INSERT PAN	11. Insert the filter pan.
CLOSE DISPOSE VALVE	12. 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.

DISPLAY	ACTION
0	13. The controller switches off.

5.3.10 Clean (Boil-Out [Hot] or Cold Clean) for Non-Bulk Oil Systems

The clean mode is used to remove carbonized oil from the frypot. The type of clean (hot or cold) will depend on the manager settings - filter attributes - clean settings (see section 4.8).



DISDLAY	ACTION
DISPLAY INSERT DISPOSAL UNIT	8. Remove the filter pan and insert the disposal unit.
INSENT DISPOSAL UNIT	8. Remove the litter pair and insert the disposal unit.
	7
	⚠ DANGER
	Ensure a SDU (Shortening Disposal Unit) or suitable metal
	container is in place under the drain with a capacity of FOUR (4)
	gallons (15 liters) or more.
	9. Ensure the 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.
	⚠ DANGER
IS DISPOSE UNIT IN PLACE?	When draining oil into a disposal unit, do not fill above the
	maximum fill line located on the container.
	A 2.11672
	⚠ DANGER
	When draining oil into an appropriate 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.
	10. No action is required while the vat drains the oil into the disposal
DRAINING	container.
VAT EMPTY?	11. Once the vat is empty, press the √ (check - YES) button to continue.
SOLUTION ADDED?	12. Fill the vat to be cleaned with water and cleaning solution mix.
3020110111100201	Press the √ (check - YES) button to start the cleaning procedure.
COLD CLEAN or	13. Scrub the vat and then let the solution soak while the cold clean or boil out timer counts down. If a boil out is selected the vat heats to
BOIL OUT	195° F (91° C) for one hour.
COLD CLEAN DONE or BOIL OUT DONE	14. Press the √ (check - YES) button to silence the alarm.
	15. Remove the cleaning solution. Remove the filter pan and remove
	crumb basket, hold-down ring, filter pad and screen.
IC COLLITION DEMOVEDS	
IS SOLUTION REMOVED?	crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is
IS SOLUTION REMOVED?	crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is removed.
IS SOLUTION REMOVED?	crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is removed. ▲ DANGER
IS SOLUTION REMOVED? CLEANING COMPLETE?	crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is removed. ⚠ DANGER Allow boil-out solution to cool to 100°F (38°C) before disposal, otherwise hot liquid can cause injury.
CLEANING COMPLETE? INSERT PAN	crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is removed. ⚠ DANGER Allow boil-out solution to cool to 100°F (38°C) before disposal, otherwise hot liquid can cause injury. 16. Press the √ (check - YES) button once the vat is scrubbed. 17. Insert the filter pan.
CLEANING COMPLETE?	crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is removed. ⚠ DANGER Allow boil-out solution to cool to 100°F (38°C) before disposal, otherwise hot liquid can cause injury. 16. Press the √ (check - YES) button once the vat is scrubbed. 17. Insert the filter pan. 18. No action is required while the vat drains the small amount of
CLEANING COMPLETE? INSERT PAN	crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is removed. ⚠ DANGER Allow boil-out solution to cool to 100°F (38°C) before disposal, otherwise hot liquid can cause injury. 16. Press the √ (check - YES) button once the vat is scrubbed. 17. Insert the filter pan. 18. No action is required while the vat drains the small amount of residual solution left in the vat.
CLEANING COMPLETE? INSERT PAN	crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is removed. ⚠ DANGER Allow boil-out solution to cool to 100°F (38°C) before disposal, otherwise hot liquid can cause injury. 16. Press the √ (check - YES) button once the vat is scrubbed. 17. Insert the filter pan. 18. No action is required while the vat drains the small amount of

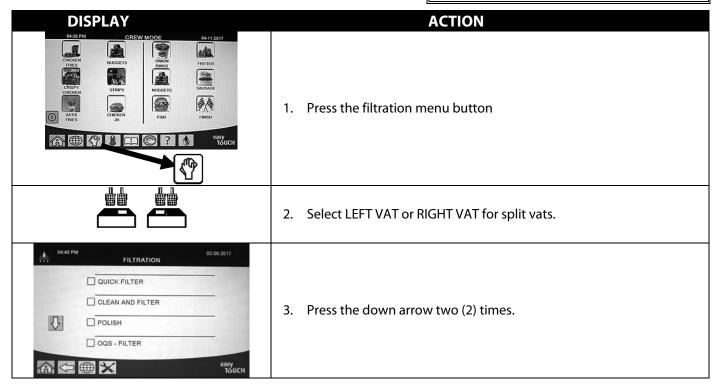
DISPLAY	ACTION	
REMOVE PAN	20. Remove the filter pan and dump the contents of the filter pan. Rinse the pan of any residual solution.	
VAT AND PAN DRY?	21. Ensure the vat and filter pan are completely dry. Press the √ (check - YES) button when finished.	
	⚠ DANGER	
	Ensure that the frypot and filter 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.	
	22. 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 cause	
	damage or injury.	
INSERT PAN	23. Reinstall screen, filter pad, hold down ring and crumb basket removed in step 15. Insert the filter pan.	
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.	
①	25. The controller switches off.	

5.3.11 Clean (Boil-Out [Hot] or Cold Clean) for Bulk Dispose or Front Dispose Oil Waste Systems

The clean mode is used to remove carbonized oil from the frypot. The type of clean (hot or cold) will depend on the manager settings - filter attributes - clean settings (see section 4.8).

⚠ 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
GLEAN CLEAN DISPOSE Casy Touch	4. Select CLEAN.
COLD CLEAN NOW? or	5. Press the √ (check - YES) button to continue. If the X (NO) button is
BOIL OUT NOW?	selected, the user returns to the filtration menu.
	6. Carefully pull the filter pan from the fryer.
DEMONE FILTED DANI	⚠ DANGER
REMOVE FILTER PAN	Remove the filter pan slowly to avoid splashing of hot oil
	that may cause severe burns, slipping and falling.
IS FILTER PAN EMPTY?	7. If the filter pan is empty press the √ (check - YES) button and proceed to the next step. If the pan is not empty, press the X (NO) button. The clean function is cancelled and returns to the filtration menu. Remove the oil from the pan and after inserting the filter pan, retry the function. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
INSERT PAN	8. Push the filter pan fully into place. Displayed if the filter pan is not fully engaged.
BULK TANK FULL?	9. This message is only displayed if the bulk tank on bulk waste systems is full. Press the √ (check - YES) button to acknowledge and call the bulk oil waste provider. The display returns to OFF.
IS VAT OIL REMOVED?	10. 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 19.
DRAINING	11. No action required as oil drains into filter pan.
VAT EMPTY?	12. Once the vat is empty, press the $\sqrt{\text{(check - YES)}}$ button to continue. If using front dispose proceed to the next step. If disposing to bulk skip to step 15.
CLEAN VAT COMPLETE?	13. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.
IS DISPOSE ATTACHMENT AND CONTAINER IN PLACE?	14. Attach the dispose attachment and ensure that the METAL disposal can is in place under the discharge nozzle. Press the √ (check - YES) button to continue. ▲ DANGER
	When draining oil into an appropriate METAL container,
	make sure the container will hold at least FOUR gallons
The second second	(15 liters) or more, otherwise hot liquid could overflow
	and cause injury.
OPEN DISPOSE VALVE	15. Open the left cabinet door and unlock the valve if necessary. Pull

DISPLAY	the dispose valve completely forward to start disposal. If using front dispose continue to next step. If disposing to bulk skip to step 17.
DISPOSING CLOSE DISPOSE VALVE	
WHEN FULL	16. 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 by your manager. Skip to step 18.
DISPOSING	17. No action is required while the pump transfers the waste oil from the pan to the bulk oil waste tanks for four (4) minutes.
	18. 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?	19. 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 14.
INSERT PAN	20. Insert the filter pan. If disposing to front skip to step 22. If disposing to bulk continue to next step.
CLOSE DISPOSE VALVE	21. 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?	22. Fill the vat to be cleaned with water and cleaning solution mix. Press the $\sqrt{\text{check - YES}}$ button to start the cleaning procedure.
COLD CLEAN or BOIL OUT	23. Scrub the vat and then let the solution soak while the cold clean or boil out timer counts down. If a boil out is selected the vat heats to 195° F (91° C) for one hour.
COLD CLEAN DONE or BOIL OUT DONE	24. Press the √ (check - YES) button to silence the alarm.
IS SOLUTION REMOVED?	25. Remove the cleaning solution. Remove the filter pan and remove crumb basket, hold-down ring, filter pad and screen. Press the √ (check - YES) button once the cleaning solution is removed. ▲ DANGER Allow boil-out solution to cool to 100°F (38°C) before
	disposal, otherwise hot liquid can cause injury.
CLEANING COMPLETE?	26. Press the √ (check - YES) button once the vat is scrubbed.
INSERT PAN	27. Insert the filter pan.

DISPLAY	ACTION
DRAINING	28. No action is required while the vat drains the small amount of
	residual solution left in the vat.
RINSE COMPLETE?	29. Rinse excess solution from vat. Press the $\sqrt{\text{(check - YES)}}$ button
THINGE COMIT LETE:	when the vat is completely rinsed.
REMOVE PAN	30. Remove the filter pan and dump the contents of the filter pan.
	Rinse the pan of any residual solution.
	31. Ensure the vat and filter pan are completely dry. Press the √ (check - YES) button when finished.
	DANGER
VAT AND PAN DRY?	Ensure that the frypot and filter pan are completely dry
VALANDI AN DITI:	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.
	-
	32. 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 cause
	damage or injury.
	33. Reinstall screen, filter pad, hold down ring and crumb basket
INSERT PAN	removed in step 25. Insert the filter pan. If using a JIB fresh oil
INSENT FAIN	system skip to step 38. If using a bulk fresh oil system type,
	continue to next step.
FILL VAT FROM RULE?	
FILL VAT FROM BLILK?	34. Press the √ (check - YES) button to continue. If the X (NO) button is
FILL VAT FROM BULK?	34. Press the $\sqrt{\text{(check - YES)}}$ button to continue. If the X (NO) button is selected, the user returns to the filtration menu.
	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump
START FILLING?	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is
START FILLING? PRESS AND HOLD	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is depressed.
START FILLING?	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is depressed. 36. Release the button when the vat is filled to the lower fill line.
START FILLING? PRESS AND HOLD	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is depressed. 36. Release the button when the vat is filled to the lower fill line. 37. Press the √ (check - YES) button to continue filling. Otherwise press
START FILLING? PRESS AND HOLD RELEASE BUTTON WHEN FULL	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is depressed. 36. Release the button when the vat is filled to the lower fill line. 37. 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.
START FILLING? PRESS AND HOLD RELEASE BUTTON WHEN FULL	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is depressed. 36. Release the button when the vat is filled to the lower fill line. 37. 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. 38. Carefully pour oil into the vat until it reaches the low level fill line in
START FILLING? PRESS AND HOLD RELEASE BUTTON WHEN FULL CONTINUE FILLING?	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is depressed. 36. Release the button when the vat is filled to the lower fill line. 37. 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.
START FILLING? PRESS AND HOLD RELEASE BUTTON WHEN FULL CONTINUE FILLING?	 34. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. 35. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is depressed. 36. Release the button when the vat is filled to the lower fill line. 37. 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. 38. Carefully pour oil into the vat until it reaches the low level fill line in

5.3.12 Dispose for Non-Bulk Oil Systems

This option is used to dispose of old oil into either a 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 a Shortening Disposal Unit (SDU). Refer to the documentation furnished with your disposal unit for specific operating instructions. **NOTE:** If using an SDU built before 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.

5.3.12 Dispose for Non-Bulk Oil Systems cont.

DISPLAY	ACTION
CREW MODE CHECKEN FRUS CHECKEN FRUS FRUS CHECKEN FRUS FRUS FRUS FRUS FRUS FRUS FRUS FRUS	1. Press the filtration menu button
	2. Select LEFT VAT or RIGHT VAT for split vats.
O4-40 PM FILTRATION QUICK FILTER CLEAN AND FILTER POLISH OQS - FILTER easy Touch	3. Press the down arrow two (2) times.
O4.08 PM FILTRATION 02.08.2017 CLEAN DISPOSE Casy Touch	4. Select DISPOSE
DISPOSE NOW?	 5. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu. ▲ DANGER Allow oil to cool to 100°F (38°C) before draining into an appropriate METAL container for disposal.
INSERT DISPOSAL UNIT	6. Insert the disposal unit.
IS DISPOSE UNIT IN PLACE?	7. Ensure the 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.

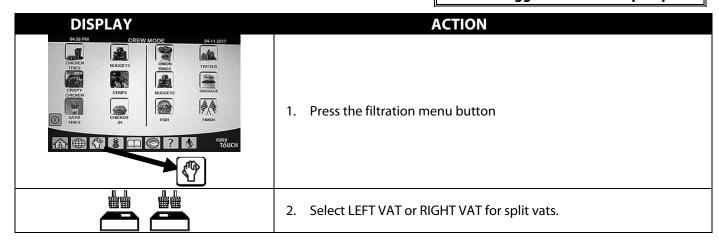
DISPLAY	ACTION		
	⚠ DANGER		
	When draining oil into an appropriate METAL container, make		
	sure the container will hold at least FOUR gallons (15 liters) or		
	more, otherwise hot liquid could overflow and cause injury.		
START DISPOSE	8. Press the BLUE button to start draining.		
DISPOSING	9. No action is required while the vat disposes the oil.		
VAT EMPTY?	10. Once the vat is empty, press the $\sqrt{\text{(check - YES)}}$ 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 all items out of drains. Closing actuators may cause		
	damage or injury.		
	If using a JIB fresh oil system skip to step 17. If using a bulk fresh oil system type, continue to next step.		
FILL VAT FROM BULK?	13. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu.		
START FILLING?	14. Press and hold the button to fill the vat. The bulk oil refill pump		
PRESS AND HOLD	uses a momentary switch. It only pumps as long as the switch is depressed.		
RELEASE BUTTON WHEN FULL	15. Release the button when the vat is filled to the lower fill line.		
CONTINUE FILLING?	16. 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	17. 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.		
	18. The controller switches off. Reinsert the filter pan.		

5.3.13 Dispose for Bulk/Front Dispose 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	ACTION
FILTRATION QUICK FILTER CLEAN AND FILTER POLISH OQS - FILTER CBSY TOUCH	3. Press the down arrow two (2) times.
O4.68 PM FILTRATION CLEAN DISPOSE Cary Touch	4. Select DISPOSE.
DISPOSE NOW?	5. Press the $\sqrt{\text{(check - YES)}}$ button to continue. If the X (NO) button is selected, the user returns to the filtration menu.
REMOVE FILTER PAN	6. Remove the filter pan.
IS FILTER PAN EMPTY?	7. If the filter pan is empty press the √ (check - YES) button and proceed to the next step. If the pan is not empty, press the X (NO) button. The clean function is cancelled and returns to the filtration menu. Remove the oil from the pan and after inserting the filter pan, retry the function. If no pan is detected, the controller displays INSERT PAN until the pan is detected.
START DISPOSE	8. Press the BLUE button to start draining.
BULK TANK FULL?	 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.
INSERT PAN	10. Push the filter pan fully into place. Displayed if the filter pan is not fully engaged.
DRAINING	11. No action required as oil drains into filter pan.
VAT EMPTY? CLEAN VAT COMPLETE?	 12. Once the vat is empty, press the √ (check - YES) button to continue. 13. Clean the vat with a scrub brush and when complete press the √ (check - YES) button to continue.
ALERT DRAIN CLOSING REMOVE TOOLS	14. Ensure that all tools are removed from the frypot prior to the drain closing to prevent damage to the drain. If using front dispose proceed to the next step. If disposing to bulk skip to step 16. DANGER Keep all items out of drains. Closing actuators may cause damage or injury.

DISPLAY	ACTION
IS DISPOSE ATTACHMENT AND CONTAINER IN PLACE?	15. Attach the dispose attachment and ensure that the METAL disposal can is in place under the discharge nozzle. Press the √ (check - YES) button to continue. △ DANGER
	When draining oil into an appropriate METAL container, make sure the container will hold at least FOUR gallons (15 liters) or more, otherwise hot liquid could overflow and cause injury.
OPEN DISPOSE VALVE	16. Open the left cabinet door and unlock the valve if necessary. Pull the dispose valve completely forward to start disposal. If using front dispose continue to next step. If disposing to bulk skip to step 18.
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 by your manager. 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 and return to step 15 for front dispose or step 16 for bulk.
INSERT PAN	21. Insert the filter pan. If disposing to front skip to step 23 if a bulk fresh oil system is used. For fresh oil from JIB skip to step 27. 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. If using a JIB fresh oil system skip to step 25. If using a bulk fresh oil system type, continue to next step.
FILL VAT FROM BULK?	23. Press the √ (check - YES) button to continue. If the X (NO) button is selected, the user returns to the filtration menu.

DISPLAY	ACTION
START FILLING? PRESS AND HOLD	24. Press and hold the button to fill the vat. The bulk oil refill pump uses a momentary switch. It only pumps as long as the switch is depressed.
RELEASE BUTTON WHEN FULL	25. Release the button when the vat is filled to the lower fill line.
CONTINUE FILLING?	26. 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	27. 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.
0	28. The controller switches off.

FILTERQUICK™ FQGLA-T GAS FRYER CHAPTER 6: PREVENTATIVE MAINTENANCE

6.1 Fryer Preventive Maintenance Checks and Service

⚠ 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.

⚠ DANGER

Never attempt to clean the fryer during the frying process or when the frypot is filled with hot oil. If water comes in contact with oil heated to frying temperature, it will cause spattering of the oil, which can result in severe burns to nearby personnel.

A WARNING

Use a multi-purpose detergent. Read the directions for use and precautionary statements before use. Particular attention must be paid to the concentration of cleaner and the length of time the cleaner remains on the food-contact surfaces.

6.2 DAILY CHECKS AND SERVICE

6.2.1 Inspect Fryer and Accessories for Damage

Look for loose or frayed wires and cords, leaks, foreign material in frypot or inside cabinet, and any other indications that the fryer and accessories are not ready and safe for operation.

6.2.2 Clean Fryer Cabinet Inside and Out - Daily

Clean inside the fryer cabinet with dry, clean cloth. Wipe all accessible metal surfaces and components to remove accumulations of oil and dust.

Clean the outside of the fryer cabinet with a clean, damp cloth soaked with a multi-purpose detergent, removing oil, dust, and lint from the fryer cabinet. Wipe with a clean, damp cloth.

6.2.3 Clean the Built-In Filtration System - Daily

A WARNING

Never operate the filter system without oil in the system.

WARNING

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

A WARNING

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

There are no periodic preventive maintenance checks and services required for your filtration system other than daily cleaning of the filter pan with a solution of hot water and a multi-purpose detergent.

If you notice that the systems is pumping slowly or not at all, verify that the filter pan screen is on the bottom of the filter pan, with the paper or pad on top of the screen. Verify that the two O-ring(s) on the fitting at the right front of the filter pan are present and in good condition. Verify that the pre-filter is clean.

6.2.4 Clean around ATO sensors – Daily

- 1. Clean the sediment from around the ATO sensors during clean and filter when the oil is drained from the frypot.
- 2. Use a screwdriver or other similar object which allows access around the probe (see photo right). Use caution to ensure that the probe is not damaged.
- 3. Return the oil once the clean and filter is complete.



6.2.5 Clean Basket Lift Rods - Daily

On fryers equipped with basket lifts, wipe down the rods with dry, clean cloth to remove accumulations of oil and dust.

6.3 **WEEKLY CHECKS AND SERVICE**

6.3.1 Clean Behind Fryers

Clean behind fryers. Shut off and disconnect the gas. Use the manual gas shut-off valve to shut off the gas supply. The manual gas shut-off valve is located on the supply line before the quick disconnects. Then disconnect the gas line from the fryer via the guick disconnect.

6.3.2 Cleaning the Frypot - Quarterly



Never operate the appliance with an empty frypot. The frypot must be filled with water or oil before lighting the burners. Failure to do so will damage the frypot and may cause a fire.

6.3.3 Clean Filter Pan, Detachable Parts and Accessories

As with the frypot, a deposit of carbonized oil will accumulate on the filter pan and detachable parts and accessories such as baskets, sediment trays, or fishplates.

Wipe the filter pan and all detachable parts and accessories with a clean dry cloth. Use a cloth dampened with a solution of a multi-purpose detergent. To remove accumulated carbonized oil. Rinse and thoroughly dry each part. DO NOT use steel wool or abrasive pads to clean these parts. The scratches that result from such scrubbing make subsequent cleanings more difficult.

6.4 MONTHLY CHECKS AND SERVICE

6.4.1 Check FQ4000 Controller Set Point Accuracy

- 1. Insert a good-grade thermometer or pyrometer probe into the oil, with the end touching the fryer temperature-sensing probe.
- 2. When the controller product icons are visible (indicating that the frypot contents are within the cooking button once to display the temperature and setpoint of the oil as sensed by the range), press the
- temperature probe. 3. Note the temperature on the thermometer or pyrometer. Actual temperature and pyrometer readings

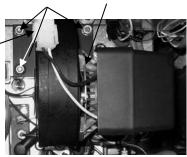
6.5 QUARTERLY CHECKS AND SERVICE

6.5.1 Clean Combustion Air Blower Assembly

 Disconnect the blower wiring harness and remove the four blower mounting nuts. (See Figure 1)

Wiring connection

- 2. Remove the blower from the fryer cabinet.
- 3. Remove the blower shield or shield assembly.
- 4. Remove the three fasteners that secure the blower motor assembly to the blower housing, and separate the two components. (See Figure 2)



Blower Assembly Mounting Nuts

Figure 1

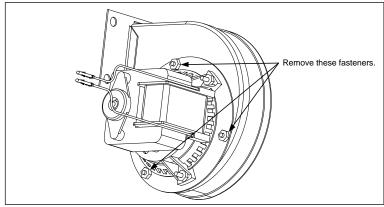


Figure 2

5. Wrap the motor with plastic wrap to prevent water from entering it. Spray degreaser or detergent on the blower wheel and the blower housing. Allow it to soak for five minutes. Rinse the wheel and housing with hot tap water, then dry with a clean cloth. (See Figure 3)

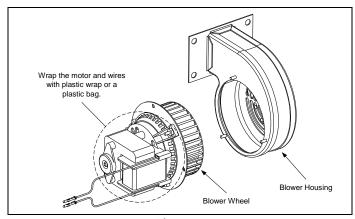
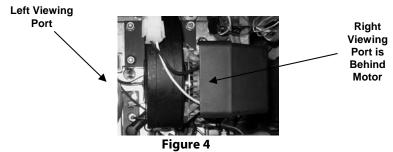


Figure 3

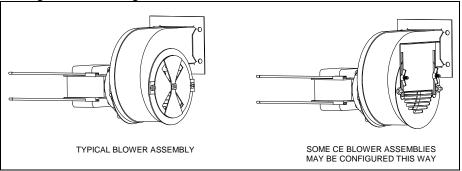
- 6. Remove the plastic wrap from the blower motor assembly. Reassemble the blower motor assembly and blower housing. Reinstall the blower assembly in the fryer.
- 7. Reinstall the blower shield or shield assembly.
- 8. Light the fryer in accordance with the procedure described in Chapter 3, Section 3.1.2.
- 9. After the burners have been lit for at least 90 seconds, observe the flames through the burner viewing ports located on each side of the combustion air blower. (See Figure 4)



The air/gas mixture is properly adjusted when the burner manifold pressure is in accordance with the applicable table in Chapter 2, Section 2.3 and the burners display a bright orange-red glow. If a blue flame is observed, or if there are dark spots on a burner face, the air/gas mixture requires adjustment.

On the side of the blower housing opposite the motor is a plate with one or two locking nuts (see illustration on the following page). Loosen the nut(s) enough to allow the plate to be moved. Adjust the position of the plate to open or close the air intake opening until a bright orange-red glow is obtained. Carefully hold the

plate in position and tighten the locking nut(s).



6.5.2 Replace the O-rings

Replace the O-rings on the filter connection (see Figure 2 in section 5.2).

6.5.3 Clean (Boiling Out) the Frypot

During normal usage of your fryer, a deposit of carbonized oil will gradually form on the inside of the frypot. This film should be periodically removed by following the Clean (boil-out) procedure *Refer to sections 5.3.10 and 5.3.11 for specific details on setting up the controller for clean (boil-out) operation.*

A DANGER

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

M WARNING

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

⚠ DANGER

Ensure that the frypot is completely free of water before filling with oil. When the oil is heated to cooking temperature, water in the frypot will cause splattering.

6.5.4 Pre-filter Maintenance

The pre-filter requires regular maintenance. Every 90 days, or more frequently if the flow of oil slows, remove the cap and clean the attached screen.



Wear protective gloves when removing the pre-filter. The filter may be hot and cause severe burns.

- 1. **Wearing protective gloves** use the supplied wrench to remove the cap from the pre-filter (**Figure 1**).
- 2. Use a small brush to clear debris from the attached screen (Figure 2).
- 3. Clean under a water tap and thoroughly dry.
- 4. Return the cap to the pre-filter housing and tighten with the attached wrench, ensuring the pre-filter is tight. If the cap is not tight, air will leak around the pre-filter and slow the return of oil.





Figure 2



DO NOT remove the pre-filter cap when a filter cycle is under way.

<u>DO NOT</u> operate the filter system with the cap removed. Wear protective gloves when handling the cap. The metal and the exposed oil are hot.

6.6 SEMI-ANNUAL CHECKS AND SERVICE

6.6.1 Clean Gas Valve Vent Tube

NOTE: This procedure is not required for fryers configured for export to CE countries.

- 1. Set the fryer power switch and the gas valve to the OFF position.
- 2. Carefully unscrew the vent tube from the gas valve. **NOTE:** The vent tube may be straightened for ease in removal.
- 3. Pass a piece of ordinary binding wire through the tube to remove any obstruction.
- 4. Remove the wire and blow through the tube to ensure it is clear.
- 5. Reinstall the tube and bend it so that the opening is pointing downward.

6.7 ANNUAL/PERIODIC SYSTEM INSPECTION

This appliance should be inspected and adjusted periodically by qualified service personnel as part of a regular kitchen maintenance program.

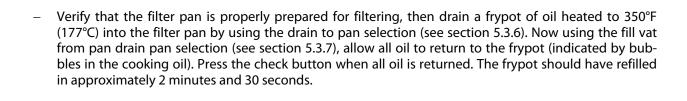
Frymaster <u>recommends</u> that a Factory Authorized Servicer inspect this appliance at least annually as follows:

6.7.1 Fryer

- Inspect the cabinet <u>inside and out, front and rear</u> for excess oil.
- Verify that debris or accumulations of solidified oil do not obstruct the flue opening.
- Verify that burners and associated components (i.e. gas valves, pilot assemblies, ignitors, etc.) are in good
 condition and functioning properly. Inspect all gas connections for leaks and verify that all connections are
 properly tightened.
- Verify that the burner manifold pressure is in accordance with that specified on the appliance's rating plate.
- Verify that the temperature and high-limit probes are properly connected, tightened and functioning properly, and that probe guards are present and properly installed.
- Verify that component box components (i.e. controller, transformers, relays, interface boards, etc.) are in good condition and free from oil and other debris. Inspect the component box wiring and verify that connections are tight and that wiring is in good condition.
- Verify that all safety features (i.e. reset switches, etc.) are present and functioning properly.
- Verify that the frypot is in good condition and free of leaks and that the frypot insulation is in serviceable condition.
- Verify that wiring harnesses and connections are tight and in good condition.

6.7.2 Built-In Filtration System

- Inspect all oil-return and drain lines for leaks and verify that all connections are tight.
- Inspect the filter pan for leaks and cleanliness. If there is a large accumulation of crumbs in the crumb basket, advise the owner/operator that the crumb basket should be emptied into a <u>fireproof</u> container and cleaned daily.
- Verify that all O-rings and seals are present and in good condition. Replace O-rings and seals if worn or damaged.
- Check filtration system integrity as follows:
 - Verify that filter pan cover is present and properly installed.
 - With the filter pan empty, place each vat into fill vat from filter pan selection (see section 5.3.7), one at a
 time. Verify proper functioning of each oil return valve by activating the filter pump using the fill vat
 from drain pan selection. Verify that the pump activates and that bubbles appear in the cooking oil of
 the associated frypot.



FILTERQUICK™ FQGLA-T GAS FRYER CHAPTER 7: OPERATOR TROUBLESHOOTING

7.1 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.

⚠ DANGER

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.

⚠ 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.

7.2 Troubleshooting Fryers

7.2.1 Controller and Heating Problems

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
No display on the controller.		A. Verify that the fryer is plugged in and that the circuit breaker is not tripped.B. Call your FAS for assistance.
FQ4000 displays IS VAT FULL? YES NO after a filtration.	 A. Normal operation during most at the beginning or end of most filtration functions. B. If the display appears many times during a filter it could be an indication of slow oil return. 	 A. Ensure the vat is full of oil and press the √ button. B. See section 7.3 troubleshooting –Filter Pump runs, but oil return is very slow.
FQ4000 displays IS DRAIN CLEAR?	Drain is clogged and oil failed to drain.	Clear drain with Fryers Friend and press $$ button. Filtration will resume.
FQ4000 displays CHANGE FILTER PAD?	Filter error has occurred, filter pad clogged, 25 hour filter pad change prompt has occurred or change filter pad was ignored on a prior prompt.	Change the filter pad and ensure the filter pan has been removed from the fryer for a minimum of 30 seconds. Do NOT ignore CHANGE FILTER PAD prompts.
Fryer does not heat.	 A. Drain valve not fully closed. B. Gas valve is not turned on. C. Manual gas shut off valve closed. D. Improperly connected quick-disconnect fitting on gas line. E. Obstructed or failed combustion air blower. 	 A. Check error log. Ensure that E33 is not displayed. B. Turn the gas valve knob to the ON position. C. Verify that any in-line manual shut off and gas main valve is open. D. Verify that the quick-disconnect fitting on the flexible gas line is firmly connected to the fryer. E. Verify that combustion air blower is running. If not, call FAS for service. If combustion air blower is functional, clean and adjust per instructions in Chapter 6 of this manual.
Fryer is operating normally, but recovery is slow when cooking.	Dirty or obstructed combustion air blower.	Clean and adjust per instructions in Chapter 6 of this manual.
Fryer is operating normally, but produces a popping sound when burners ignite.	 A. Dirty or obstructed combustion air blower. B. Dirty or obstructed gas valve vent tube (non-CE fryers only). C. Malfunctioning combustion air blower. 	 A. Clean and adjust per instructions in Chapter 6 of this manual. B. Clean per instructions in Chapter 6 of this manual. C. Call your FAS.
Controller locks up.	Controller error.	Remove and restore power to the controller. If problem persists, call your FAS for assistance.
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.

7.2.2 Error Messages and Display Problems

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
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 √ button. Maximum recovery time for gas is 3:15. If the error continues call your FAS for assistance.
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 TEMPRATURE 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 4.10).

7.3 Troubleshooting the Auto Filtration

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 4.8.
CLEAN AND FILTER won't start.		Ensure fryer is at setpoint before starting Clean and Filter.

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
FQ4000 display shows FILTER BUSY.	A. Another filtration cycle or filter pad change is still in process.B. Filter interface board has not cleared checking system.	 A. Wait until the previous filtration cycle ends to start another filtration cycle. Change filter pad if prompted. B. Wait 15 minutes and try again.
Drain valve or return valve stays open.	A. Valve Interface Board has failed.B. Actuator has failed.	Call your FAS for assistance.
Filter pump won't start or pump stops during filtering.	A. Power cord is not plugged in or circuit breaker is tripped.B. Pump motor has overheated causing the thermal overload switch to trip.C. Blockage in filter pump.	 A. Verify that the power cord is fully plugged in and the circuit breaker is not tripped. B. If the motor is too hot to touch for more than a few seconds, the thermal overload switch has probably tripped. Allow the motor to cool at least 45 minutes then press the Pump Reset Switch (see page 5-5). C. Call your FAS for assistance.
FQ4000 displays INSERT PAN.	A. Filter pan is not fully set into fryer. B. Missing filter pan magnet. C. Defective filter pan switch.	 A. Pull filter pan out and fully reinsert into fryer. Ensure controller does not display P. B. Ensure the filter pan magnet is in place and replace if missing. C. If the filter pan magnet is fully against the switch and controller continues to display INSERT PAN, switch is possibly defective.
Auto filtration won't start.	 A. Oil level too low. B. Oil temperature is too low. C. Filter Pan out. D. Filtration in recipe settings is set to OFF. E. Filter relay has failed. 	 A. Ensure oil level is at the top oil fill line (at the top oil level sensor). B. Ensure the oil temperature is at setpoint. C. Ensure controller does not display P. Ensure the filter pan is fully seated into fryer. Power cycle the fryer. D. Set filtration in recipes to ON. E. Call your FAS for assistance.
Filter Pump runs, but oil return is very slow.	 A. Clogged filter pad/paper. B. Improperly installed or prepared filter pan components. C. Pre-filter screen may be clogged or not fully tightened. 	 A. Ensure the filter is not clogged. If so replace the filter. B. Remove the oil from the filter pan and replace the filter pad, ensuring that the filter screen is in place under the pad. Verify, if using a pad, that the rough side is facing up. Verify that O-rings are present and in good condition on filter pan connection fitting. C. Clean pre-filter (see section 6.5.4) and ensure it is tightened with the attached wrench.

7.3.1 Incomplete Filtration

Should the auto filtration procedure fail an error message is generated. Follow the instructions on the screen to return the oil and clear the error.

DISPLAY	ACTION
DISI ERI	1. Press the $\sqrt{\text{(check)}}$ button if the vat is full to continue. The
IS VAT FULL?	controller returns to idle cook mode or \bigcirc . Press X if vat is not
13 VATTOLE:	
FILLING IN PROGRESS	filled completely.
FILLING IN PROGRESS	2. No action required as the pump runs.3. Press the √ (check) button if the vat is full to continue. The
IC VAT FULL 2	
IS VAT FULL?	controller returns to idle cook mode or 🔘 . Press X if vat is not
	filled completely.
FILLING IN PROGRESS	4. No action required as the pump runs.
	5. Press the $\sqrt{\text{(check)}}$ button if the vat is full to continue. The
IS VAT FULL?	controller returns to idle cook mode or ①. Press X if vat is not
13 V/(11 OLE:	filled completely. If this is the sixth consecutive sequence of
	incomplete filtration skip to step 10.
CHANGE FILTER PAD?	6. Press the $\sqrt{\text{(check)}}$ button to continue. Pressing X advances to
CHANGE FILTER PAD!	0.
REMOVE PAN	7. Remove the filter pan.
	8. Change the filter pad and ensure the filter pan has been pulled
	forward, out of the cabinet for at least 30 seconds. Once the
CHANGE FILTER PAD	pan has been out for 30 seconds the controller returns to idle
CHANGETIETENTAD	cook mode. Ensure the pan is dry and assembled correctly.
	Push the filter pan back into the fryer. Ensure "P" is not
	displayed on the controller.
	9. Press the $\sqrt{\text{(check)}}$ button if the vat is full to continue. The controller returns to idle cook mode. Press X if vat is not full and
IS VAT FULL?	
	the controller advances to \bigcirc .
CED VICE DECLUDED	10. If a filtration error occurs six consecutive times, the return valve
SERVICE REQUIRED	closes. Press the $\sqrt{\text{(check)}}$ button to silence alarm and
	continue.
ERROR PUMP NOT FILLING	11. The system detects oil is not returning to the vat and service is required. Call an FAS.
ERROR FOWER NOT FILLING	12. Press the X button to continue cooking if possible. Call your FAS
	to repair and reset the fryer. The error will be re-displayed
SYSTEM ERROR FIXED?	every 15 minutes until the issue is repaired. Auto filtration and
	auto top off are disabled until the fryer is reset.
ENTER CODE	13. FAS tech enters tech code to reset fryer.
	14. Press the √ (check) button to fill the vat from filter pan to
FILL VAT FROM DRAIN PAN?	continue. Follow prompts once the vat is full. Press X to skip
	filling from drain pan.
REMOVE PAN	15. Remove the filter pan.
10.000	16. Press the √ (check) button if the filter pan is empty and
IS PAN EMPTY?	continue to next step. Press X to continue filling the vat. Follow
	the prompts once the vat is full.
	17. The controller switches off.
	The controller switches on

7.3.2 Clogged Drain Error

The clogged drain error occurs during auto filtration when the oil level sensor detects that oil has not completely drained from the frypot. This may be due to a clogged drain or an oil sensor failure. Follow the instructions on the controller display to clear the error.

When this occurs the controller displays CLEAR DRAIN for 15 seconds changing to IS DRAIN CLEAR?.

- 1. Clear debris from the drain using the fryer's friend and press the $\sqrt{}$ button to continue.
- 2. The controller displays **DRAINING**. Once the oil level sensor detects the oil has drained, normal auto filtration operation resumes.

7.3.3 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.

7.4 Troubleshooting Auto Top Off Issues

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Frypots top off cold.	Incorrect setpoint.	Ensure setpoint is correct.
One vat doesn't top off.	 A. Filter error exists. B. Service required error exists C. Solenoid, pump, pin issue, RTD or ATO issue. 	 A. Clear filter error properly. If problem persists call your FAS for assistance. B. Call your FAS for assistance. C. Call your FAS for assistance.
Frypots won't top off.	 A. Fryer temperature too low. B. Oil is too cold. C. Top oil empty displayed D. Service required error exists E. Melting unit switch is off (only on solid shortening units) F. Blown fuse. 	 A. Fryer temperature must be at setpoint. B. Ensure that the oil in the top off reservoir is above 70°F (21°C). C. Ensure the top off reservoir is not out of oil. Replace top off reservoir or fill from bulk and reset top off system. If problem persists call your FAS for assistance. D. Call your FAS for assistance. E. Ensure the switch on the melting unit is in the ON position. F. Check the fuse on the left of the ATO box. If using a solid shortening melting unit, check the fuse below the melting unit switch.

7.5 **Troubleshooting Bulk Oil System Problems**

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Top off reservoir won't fill.	 A. Incorrect setup procedure. B. Another function is in process. C. Dispose valve not completely closed. D. Bulk oil tank is empty. E. Solenoid, pump or switch issue. 	 A. Power cycle fryer by disconnecting and reconnecting 5-pin bulk oil control power cord on rear of fryer. B. If a filtration or any other filter menu function is in process or FILTER NOW? YES/NO, CONFIRM YES/NO, or SKIM VAT are displayed, wait until the process is complete and try again. C. Ensure the dispose valve handle is pushed fully closed. D. Call your bulk oil provider. E. Call you FAS for assistance.
Top off reservoir or vat filling slow.	A. Pump or line issues beyond the scope of operator troubleshooting.	A. Contact your bulk oil provider.
Frypot won't fill.	 A. Incorrect setup procedure. B. Dispose valve not completely closed. C. Bulk oil tank is empty. D. RTI pump issue. 	 A. Power cycle fryer by disconnecting and reconnecting the bulk oil control connector on rear of fryer. B. Ensure the dispose valve handle is pushed fully closed. C. Call your bulk oil provider. D. Call you FAS for assistance.

7.6 Error Log CodesSee section 4.13.2.1 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 the
	DISCONNECT POWER	high limit has failed to open. Immediately
		disconnect power to the fryer and call service.
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	
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 TOP OFF	Drain valve was trying to open and confirmation
	DISABLED - CALL SERVICE	is missing
E33	DRAIN VALVE NOT CLOSED - FILTRATION AND TOP	Drain valve was trying to close and confirmation
	OFF DISABLED - CALL SERVICE	is missing
E34	RETURN VALVE NOT OPEN - FILTRATION AND TOP	Return valve was trying to open and
	OFF DISABLED - CALL SERVICE	confirmation is missing
E35	RETURN VALVE NOT CLOSED - FILTRATION AND TOP	Return valve was trying to close and
	OFF DISABLED - CALL SERVICE	confirmation is missing

Code	ERROR MESSAGE	EXPLANATION
E36	VALVE INTERFACE BOARD FAILURE - FILTRATION	Valve Interface Board connections lost or board
	AND TOP OFF DISABLED - CALL SERVICE	failure. Call service.
E37	AUTOMATIC INTERMITTENT FILTRATION PROBE	AIF RTD reading out of range. Call service.
	FAILURE - FILTRATION DISABLED - CALL SERVICE	
E39	CHANGE FILTER PAD	25 hour timer has expired or dirty filter logic has
		activated. Change the filter paper or pad.
E41	OIL IN PAN ERROR	The system detects that oil may be present in the
F 42	CLOCCED DRAIN (C.)	filter pan.
E42	CLOGGED DRAIN (Gas)	Vat did not empty during filtration. Ensure the
E43	OIL SENSOR FAILURE - CALL SERVICE	drain is not clogged and follow prompts. Oil level sensor may have failed. Call service.
E44	RECOVERY FAULT	Recovery time exceeded maximum time limit.
E45	RECOVERY FAULT – CALL SERVICE	Recovery time exceeded maximum time limit.
LTJ	RECOVERT PROEF CREE SERVICE	two or more cycles. Call service.
E46	SYSTEM INTERFACE BOARD 1 MISSING - CALL	SIB board 1 connection lost or board failure. Call
2.0	SERVICE	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	Communications are lost between boards. Call
		service.
E54	USB ERROR	USB connection lost during an update.
E55	SYSTEM INTERFACE BOARD 2 MISSING - CALL	SIB board 2 connection lost or board failure. Call
	SERVICE	service.
E61	MISCONFIGURED ENERGY TYPE	The fryer is configured for the incorrect energy
LOT	MISCONTIGORED ENERGY THE	type. Call service.
E62	VAT NOT HEATING – CHECK ENERGY SOURCE – XXXF	The vat is not heating properly.
	OR XXXC	and the second second property.
E63	RATE OF RISE	Rate of rise error occurred during a 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 Interface Board connections lost or
ГСГ	FILTRATION AND TOP OFF DISABLED - CALL SERVICE	board failure. Call service. Gas -The oil is back sensor does not detect oil.
E65	CLEAN OIB SENSOR – XXX F OR XXX C - CALL SERVICE	Clean optional oil sensor.
E66	DRAIN VALVE OPEN – XXXF OR XXXC	Drain valve is opened during cooking.
E67	SYSTEM INTERFACE BOARD NOT CONFIGURED -	Controller is turned on when the SIB board is not
	CALL SERVICE	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
F71	COSTEMPLOW	(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).
		(175 C) and 375'1 (191°C).
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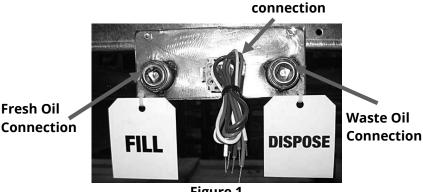
E72	TPM RANGE LOW	The TPM is too low for a valid OQS reading. This may also be seen with fresh new oil. The incorrect oil type may be selected in the setup menu. The sensor may not be calibrated for the oil type. See oil type chart in instruction document 8197316. If issue continues contact a FAS.
E73	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 continues contact a FAS.
E75	OQS AIR ERROR	The OQS is detecting air in the oil. Check the Orings 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.

FILTERQUICK™ FQGLA-T GAS FRYER APPENDIX A: BULK OIL CONNECTION AND SETUP INSTRUCTIONS

NOTE: The instructions in this manual for using a bulk oil system for filling and discarding oil are for a bulk oil system. These instructions may not be applicable to some bulk oil systems.

A.1.1 Bulk Oil Systems

Bulk oil systems have large oil storage tanks, typically located in the rear of the restaurant, that are connected to a rear manifold on the fryer. Waste oil is pumped from the fryer, via the fitting located on the left of the manifold on the rear of



Bulk oil wiring

Figure 1

the fryer, to the disposal tanks and fresh oil is pumped from the tanks, through the fitting located on the right of the manifold, to the fryer (see Figure 1). The 9-pin wire harness allows connection to various bulk oil systems. The wiring diagram is located on the back page.

Set the fryer to bulk through the Settings/Service mode on the far left controller. All vats need to be idle to set these settings.

- 1. With the controller soft powered off press the HOME button.
- 2. Press the Settings button.
- 3. Press the Service button.
- 4. Enter 3000
- 5. Press the checkmark button.
- 6. Press the down arrow button.
- 7. Press OIL SYSTEM TYPE.
- 8. Press the BULK button for bulk fresh oil; if no bulk fresh oil is used, leave setting at JIB. The type selected is highlighted.
- 9. The controller displays SETUP COMPLETE RESTART THE SYSTEM.
- 10. Press the checkmark button.
- 11. Press WASTE OIL.
- 12. Press the bulk button. The type selected is highlighted.
- 13. The controller displays SETUP COMPLETE RESTART THE SYSTEM.
- 14. Press the checkmark button.
- 15. Press the home button to exit.

It is imperative that the fryer system be completely power cycled for at least 60 seconds after changing oil system type or waste oil type.

The FilterQuick™ FQGLA-T fryers, equipped for use with bulk oil systems, have an onboard fresh oil jug supplied by the fresh oil bulk provider. Remove the cap and insert the standard fitting into the jug with the metal cap resting on the lip of the jug. The oil is pumped in and out of the jug through the same fitting (see Figure 2).



Figure 2

WARNING Do not add HOT or USED oil to a top off reservoir.

The momentary switch used to reset the top off reservoir low indicator is also used to fill the jug in a bulk fresh oil system. After pressing the button to reset the top off system, pressing and holding the momentary switch, located above the top off reservoir, allows the operator to fill the jug from the bulk oil storage

tank (see Figure 3).

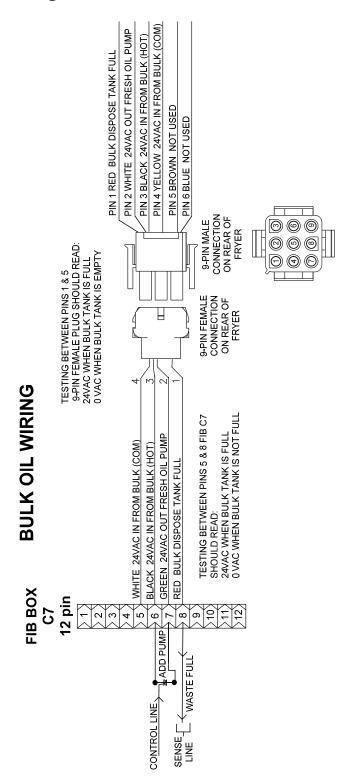
To fill the jug, press and hold the top off reset button until the jug is full, then release.*

NOTE: Do NOT overfill the jug.

For instructions on filling the vat from bulk, see Section 5.3.8. To dispose to bulk see section 5.3.13.

Figure 3

* NOTE: It takes approximately twelve seconds from the time the top off reset button is pressed until the bulk fresh oil pump starts. It may take up to 20 seconds before the level in the top off reservoir begins to rise. Typically it takes approximately three minutes to fill the reservoir. It takes approximately one minute to fill a split vat and two minutes to fill a full vat.



⚠ WARNING

The FQGLA™ fryer will ONLY operate with bulk oil systems that have a three-pole float switch. If the float switch is the older two-pole switch, call the bulk oil provider. These float switches are polarity specific which may short to ground and damage an FIB board.



800-551-8633 318-865-1711

WWW.FRYMASTER.COM

EMAIL: FRYSERVICE@WELBILT.COM



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