

High Production RE (HPRE) E⁴ Series Electric Fryer

Installation, Operation and Maintenance Manual

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



- HPRE80, FPRE80, XFPRE80, XRE, FPRE80
and RE80 Models
- YUM YSCFRE18, XYCFRE18 and
XYSCFRE18 Models

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.

Keep these instructions for future reference.



8 1 9 6 5 5 2

Part Number: FRY_IOM_8196552 05/2023

Original Instructions

NOTICE

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

NOTICE

This appliance is intended for professional use only and is to be operated by qualified personnel only. A Frymaster 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. See NATIONAL CODE REQUIREMENTS in Chapter 2 of this manual for specifics.

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.

 WARNING

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.

 FOR YOUR SAFETY

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

NOTICE TO OWNERS OF UNITS EQUIPPED WITH TOUCH SCREEN CONTROLLERS

U.S.

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

CANADA

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

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites de classe A et B prescrites dans la norme NMB-003 édictée par le Ministre des Communications du Canada.

 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.

 WARNING

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

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.

⚠ DANGER

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

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.

⚠ 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.

⚠ 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.

⚠ DANGER

Adequate means must be provided to limit the movement of this appliance without depending on or transmitting stress to the electrical conduit. A restraint kit is provided with the fryer. If the restraint kit is missing contact your local KES.

⚠ DANGER

This fryer has a power cord (three-phase) for each frypot. Prior to movement, testing, maintenance and any repair on your Frymaster fryer; disconnect ALL electrical power cords from the electrical power supply.

⚠ WARNING

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.

⚠ 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.

⚠ WARNING ⚠

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

⚠ DANGER

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

 **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**

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

 **DANGER**

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

NOTICE

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.

 **WARNING**

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

 **WARNING**

Do not use water jets to clean this equipment.

 **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.

 **WARNING**

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

 **WARNING**

Do not leave the fryer unattended during use.

 **WARNING**

Use caution when dropping wet food or water into the hot oil. It may cause spattering of the oil, which may cause severe burns

 **WARNING**

Do not overfill the frypot to avoid overflow of hot oil that may cause severe burns, slipping and falling.

 **WARNING**

Use caution and wear appropriate safety equipment when adding oil to the fryer, to prevent splashing of hot oil, which may cause severe burns.



WARNING

Use caution when dropping large amounts of food into the hot oil. It may cause large amounts of foaming, which can overflow and may cause burns.



WARNING

Opening the drain valve will lead to the outflow of the hot contents of the fryer that can cause injury.

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HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 1: INTRODUCTION

1.1 General

Read the instructions in this manual thoroughly before attempting to operate this equipment. This manual covers all High Production RE (HPRE) E⁴ Series electric fryers.

High Production RE (HPRE) E⁴ Series electric fryers feature easy to clean, open frypots with rotating elements. The fryers are controlled by multi-product cooking computers and come in full-pot configurations.

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 below.

 **CAUTION**

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

 **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.

 **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.

Fryers in this series are equipped with automatic safety features:

1. Two high-temperature detection features shut off power to the elements should the temperature controls fail.
2. An inline circuit breaker shuts off power to the filter-pump motor (if equipped) if the motor clogs or overheats.

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 1: INTRODUCTION

1.3 Computer Information

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 generates, 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 their 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 Shipping Damage Claim Procedure

What to do if your equipment arrives damaged:

Please note that this equipment was carefully inspected and packed by skilled personnel before leaving the factory. The freight company assumes full responsibility for safe delivery upon acceptance of the equipment.

1. File Claim for Damages Immediately—Regardless of extent of damage.
2. Visible Loss or Damage—Be sure this is noted on the freight bill or express receipt and is signed by the person making the delivery.
3. Concealed Loss or Damage—If damage is unnoticed until equipment is unpacked, notify the freight company or carrier immediately and file a concealed damage claim. This should be done within 5 days of date of delivery. Be sure to retain container for inspection.

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS
CHAPTER 1: INTRODUCTION

1.5 Service Information

For non-routine maintenance or repairs, or for service information, contact your local Frymaster Factory Authorized Servicer (FAS). Service information may also be obtained by calling the Frymaster Technical Services Department (1-800-551-8633). The following information will be needed in order to assist you efficiently:

Model Number _____
Serial Number _____
Voltage _____
Nature of the Problem _____

1.6 After Purchase

In order to improve service, have the following chart filled in by the Frymaster Dean Authorized Servicer who installed this equipment.

Authorized Servicer	_____
Technician/FAS	_____
Address	_____

Telephone/Fax	_____
Model Number	_____
Serial Number	_____
Voltage	_____

**HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS
CHAPTER 1: INTRODUCTION**

1.7 SERVICE PERSONNEL

1.7.1 Definitions

A. Qualified and/or Authorized Operating Personnel

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

B. Qualified Installation Personnel

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

C. Qualified Service Personnel

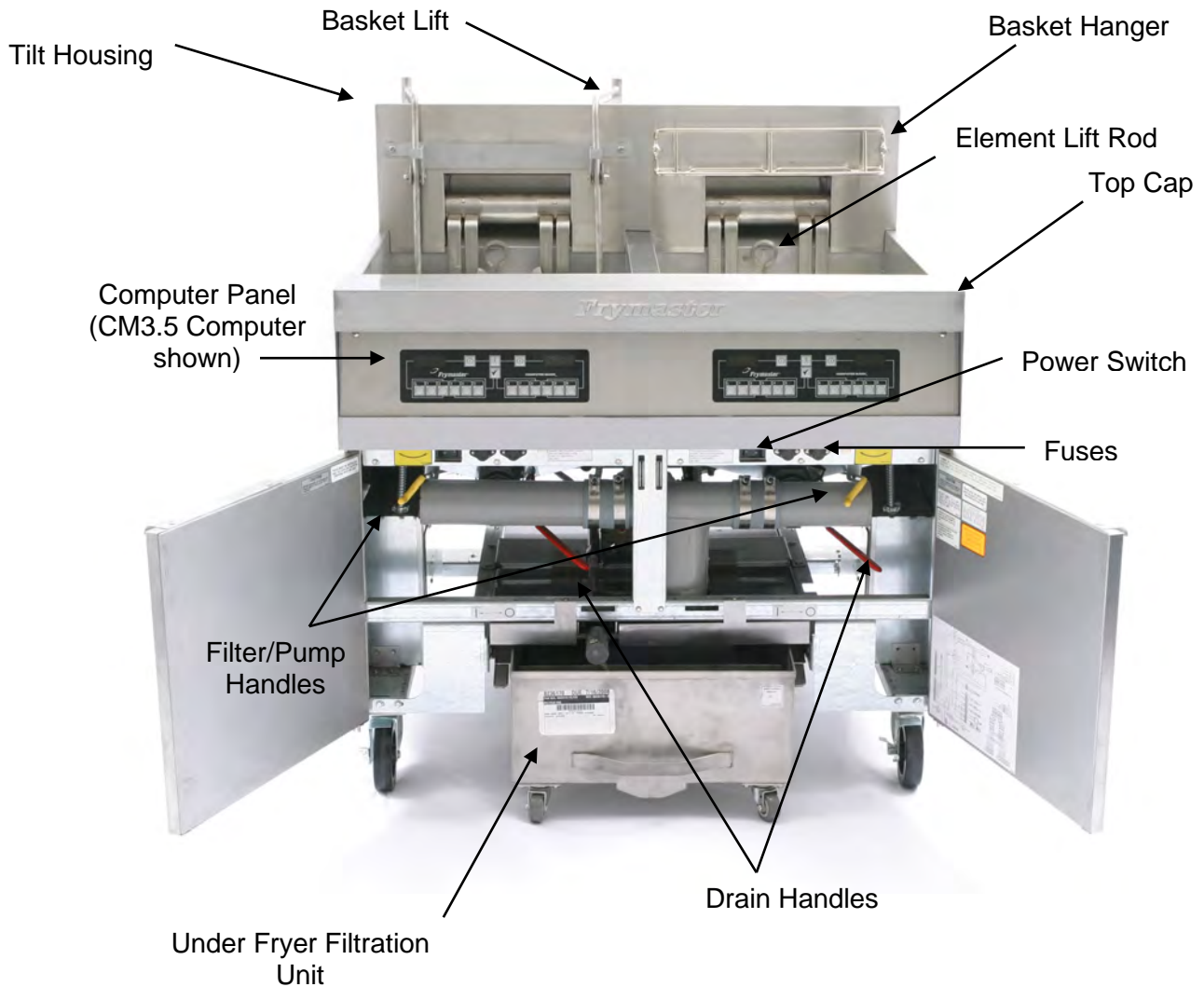
1. Qualified service personnel are those who are familiar with Frymaster equipment and have been authorized by Frymaster to perform service on Frymaster equipment. All authorized service personnel are required to be equipped with a complete set of service parts manuals and stock a minimum amount of parts 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 Dean warranty on your equipment.*

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

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 2: INSTALLATION INSTRUCTIONS

FINDING YOUR WAY AROUND THE HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYER



HIGH PRODUCTION RE (HPRE) E⁴ CONFIGURATION

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

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 2: INSTALLATION INSTRUCTIONS

2.1 General

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 1.7 of this manual, should perform all installation and service on Frymaster equipment.

Failure to use qualified, licensed, and/or authorized installation or service personnel (as defined in Section 1.7 of this manual) to install or otherwise service this equipment will void the Frymaster warranty and may result in damage to the equipment or injury to personnel.

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 Factory Authorized Servicer.

NOTICE

All fryers shipped without factory supplied cords and plug assemblies must be hardwired using flexible conduit to the terminal block located on the rear of the fryer. These fryers should be wired to NEC specifications. Hardwired units must include installation of restraint devices.

DANGER

Adequate means must be provided to limit the movement of this appliance without depending on or transmitting stress to the electrical conduit. A restraint kit (part number 826-0900) is provided with the fryer. If the restraint kit is missing contact your local Frymaster Factory Authorized Servicer (FAS).

NOTICE

If this equipment is wired directly into the electrical power supply, a means for disconnection from the supply having a contact separation of at least 3-mm in all poles must be incorporated in the fixed wiring.

NOTICE

This equipment must be positioned so that the plug is accessible unless other means for disconnection from the power supply (e.g., a circuit breaker) is provided.

DANGER

The electrical power supply for this appliance **MUST** be the same as indicated on the rating and serial number plate located on the inside of the fryer door.

NOTICE

If this appliance is permanently connected to fixed wiring, it **MUST** be connected by means of copper wires having a temperature rating of not less than 167°F (75°C).

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CHAPTER 2: INSTALLATION INSTRUCTIONS

NOTICE

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

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.

DANGER

All wiring connections for this appliance must be made in accordance with the wiring diagram(s) furnished with the appliance. Refer to the wiring diagram(s) affixed to the inside of the appliance door when installing or servicing this equipment.

WARNING

Do not attach an apron drainboard to a single fryer. The fryer may become unstable, tip over and cause injury. The appliance area must be kept free and clear of combustible material at all times.

In the event of a power failure, the fryer(s) will automatically shut down. If this occurs, turn the power switch "OFF". Do not attempt to start the fryer(s) until power is restored.

2.1.1 Clearance and Ventilation

This appliance must be kept free and clear of combustible material, except that it may be installed on combustible floors.

A clearance of 6 inches (15cm) must be provided at both sides and back adjacent to combustible construction. A minimum of 24 inches (61cm) should be provided at the front of the equipment for servicing and proper operation.

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.

When installing any type of fryer, Standard No. 96 of the National Fire Protection Association must be followed implicitly.

The duct system, the hood and filter bank must be cleaned on a regular basis and kept free of grease according to the NFPA Standard No. 96.

A copy of the standard may be obtained from the National Fire Protection Association, Battery March Park, Quincy, MA 02269 or at www.NFPA.org.

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 2: INSTALLATION INSTRUCTIONS

2.1.2 Electrical Grounding Requirements

All electrically operated appliances must be grounded in accordance with all applicable national and local codes, and, where applicable, CE codes. 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.

The equipotential grounding lug indicated by illustration (right) allows all the equipment in the same location to be electrically connected to ensure there is no electrical potential difference between the units, which could be hazardous.



2.1.3 Australian Requirements

To be installed in accordance with AS 5601 and AS/NZS 3000:2007 local authorities, gas, electricity, and any other relevant statutory regulations.

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

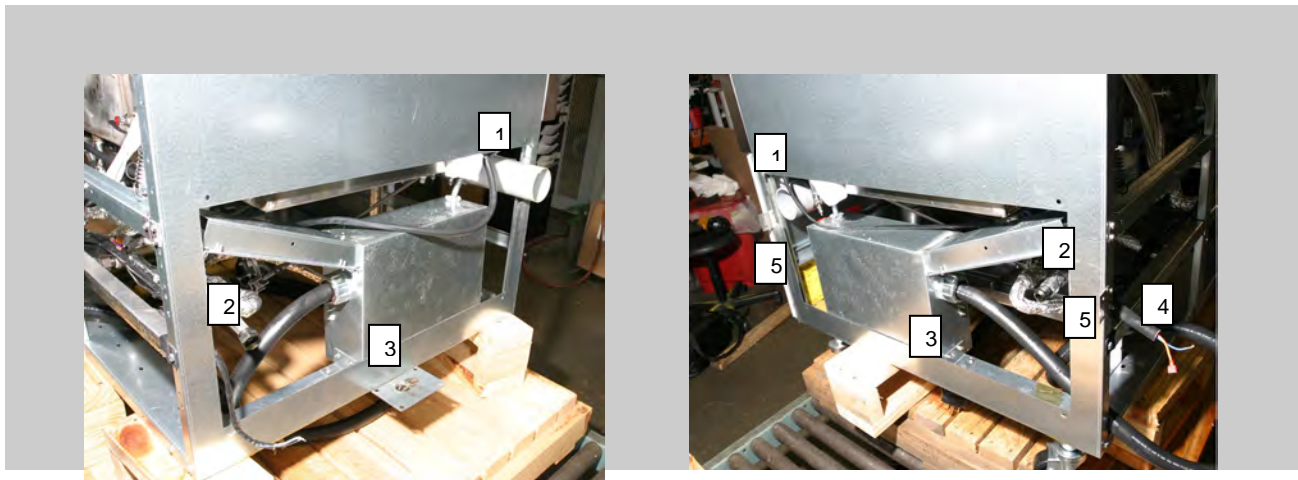
2.2 Fryer Installation

WARNING

Frymaster fryers equipped with legs are for permanent installations. Fryers fitted with legs must be lifted during movement to avoid damage and possible bodily injury. For a moveable or portable installation, Frymaster optional equipment casters must be used. Questions? Call 1-800-551-8633

Installing the Fryer

HPRE fryers in batteries greater than four frypots fryer ship in sections. The fryers are uncrated, removed from pallets and assembled together. Important aspects during assembly include aligning and connecting the drain system, oil return system, rinse-line system (where applicable), oil-return switch wiring harness and fryer cabinets. Slight modifications to connecting hardware may be required when assembling the system. The instructions below provide step-by-step instructions to assist the installer in assembly.



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The fryer arrives on separate pallets. Remove the units from the pallets and align the cabinets, which must be attached or connected at the positions shown above and on the adjoining page.

1. Drain manifold. Loosen and extend the drain boot.
2. Oil-return line. Attach flex line.
3. The middle extended mounting plate (shown without caster above left) slides under the adjoining cabinet and is bolted into place.
4. Wiring, which connects the drain safety circuit and allows operation of the hose and wand and oil disposal systems, is connected.
5. Tabs, show in close-up on the adjoining page, are attached to the cabinet's vertical posts, front and back. These are screwed to the adjacent cabinet post.



Latches are left up on Wago connectors to indicate placement of wires from the adjoining cabinet. A piggyback terminal is in place on the drain switch (see arrow) to daisy chain the drain safety circuit.



Sheet metal tabs secure the cabinet pieces together.



Joiner strips are provided to close the gap between the frypots and the top of the cabinet.

DANGER

Fryers must be at room temperature and empty of oil during movement to avoid damage and possible bodily injury.

DANGER

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

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 2: INSTALLATION INSTRUCTIONS

2.3 Electrical Connections

The fryer when installed must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-(latest edition).

 **DANGER**

This fryer is equipped with three-prong (grounding) plugs for protection against electrical shock and must be plugged directly into a properly grounded, three-prong receptacle. DO NOT CUT, REMOVE, OR OTHERWISE BYPASS THE GROUNDING PRONGS ON THESE PLUGS!

TO LEVEL FRYERS EQUIPPED WITH LEGS, THE BOTTOM OF THE LEGS CAN BE SCREWED OUT UP TO 1-INCH FOR LEVELING. LEGS SHOULD BE ADJUSTED SO THAT THE FRYER IS AT THE PROPER HEIGHT IN THE FRYING STATION. FOR FRYERS EQUIPPED WITH CASTERS, THERE ARE NO BUILT-IN LEVELING DEVICES. THE FLOOR WHERE THE FRYER IS INSTALLED MUST BE LEVEL.

NOTE: If you need to relocate a fryer installed with legs, remove all the weight from each leg before moving. If a leg becomes damaged, contact your service agent for immediate repair or replacement.

 **WARNING**

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

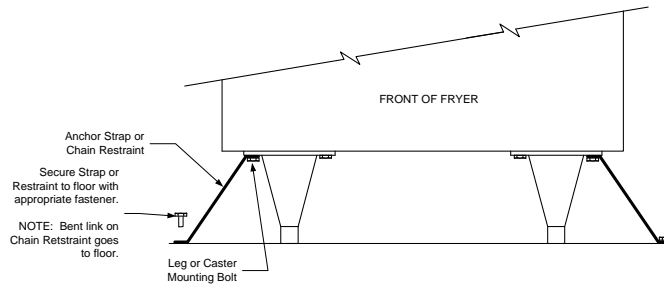
1. When the fryer is leveled in its final position, install the restraints to limit its movement so that it does not depend on or transmit stress to the electrical conduit or connection as well as to prevent tipping. Install the restraints in accordance with the provided instructions (see illustration below). If the restraints are disconnected for service or other reasons, they **MUST** be reconnected before the fryer is used.

 **DANGER**

Adequate means must be provided to limit the movement of this appliance without depending on or transmitting stress to the electrical conduit. A restraint kit (part number 826-0900) is provided with the fryer. If the restraint kit is missing contact your local Frymaster Factory Authorized Servicer (FAS).

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 2: INSTALLATION INSTRUCTIONS



2. Close fryer drain-valve and fill frypot with water to the bottom OIL LEVEL line.
3. Boil out frypot prior to first use. See Frypot Boil-Out instructions in Section 2.5.
4. Drain, clean, and fill frypot(s) with cooking oil. See Section 2.6, Equipment Setup and Shutdown Procedures.

2.4 Power Requirements

⚠ DANGER
Copper wire suitable for at least 167°F (75°C) MUST be used for power connections.

MODEL	VOLTAGE	PHASE	WIRE SERVICE	MIN. SIZE	AWG (mm ²)	AMPS PER LEG		
						L1	L2	L3
17 kW	208	3	3	4	(16)	48	48	48
17 kW	240	3	3	6	(16)	41	41	41
17 kW	480	3	3	8	(16)	21	21	21
17 kW	220/380	3	4	8	(16)	26	26	26
17 kW	240/415	3	4	8	(16)	24	24	24
17 kW	230/400	3	4	8	(16)	25	25	25
21 kW	208	3	3	4	(25)	58	58	58
21 kW	240	3	3	4	(25)	51	51	51
21 kW	480	3	3	8	(16)	25	25	25
21 kW	220/380	3	4	6	(16)	32	32	32
21 kW	240/415	3	4	8	(16)	29	29	29
21 kW	230/400	3	4	8	(16)	30	30	30

⚠ DANGER

The electrical power supply for this appliance MUST be the same as indicated on the rating and serial number plate located on the inside of the fryer door.

⚠ DANGER

This appliance MUST be connected to the voltage and phase specified on the rating and serial number plate located inside the fryer door.

⚠ DANGER

All wiring connections for this appliance MUST be made in accordance with the wiring diagrams furnished with the equipment. Wiring diagrams are located inside the fryer door.

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CHAPTER 2: INSTALLATION INSTRUCTIONS

2.5 Frypot Boil Out

Before the fryer is first used for cooking, it should be boiled out to ensure that residue from the manufacturing process is eliminated.

Also, after the fryer has been in use for a period of time, a hard film of caramelized oil will form inside the frypot. This film should be periodically removed by following the boil-out procedure.

Clean frypot(s) as follows before filling with oil for the first time and at least once a month thereafter:

1. Before switching the fryer "ON", close the frypot drain valve, then fill the empty frypot with a mixture of cold water and detergent. Follow instructions on detergent bottle when mixing.
2. Press controller ON/OFF switch to "ON".
3. Program computer for Boil-out Operation as outlined in the controller manual that shipped with the fryer.
4. Simmer the solution for 45 minutes to 1 hour. Do not allow water level to drop below the bottom OIL LEVEL line in frypot during boil-out operation.

 **CAUTION**

Do not leave fryer unattended. The boil-out solution may foam and overflow. Press ON/OFF switch to the "OFF" position to control boil over.

 **CAUTION**

All drops of water MUST be removed from frypot before filling with oil.

 **CAUTION**

Water or boil-out solution MUST not be allowed to drain into the filter pan or filter system. Irreversible damage will result if water is allowed into the filtration system and all applicable warranties will be voided.


5. Turn the fryer ON/OFF switch(s) to the "OFF" position.
6. Add two gallons of water. Drain out the solution and clean the frypot(s) thoroughly.
7. Refill the frypot(s) with clean water. Rinse the frypot(s) twice, drain and wipe down with a clean towel. Remove all traces of water prior to filling frypot with oil.

For controller operational procedures, consult the controller manual that shipped with the fryer.

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS
CHAPTER 2: INSTALLATION INSTRUCTIONS

2.6 Equipment Setup and Shutdown Procedures

⚠ WARNING

Fill the frypot to the bottom OIL LEVEL line with oil before pressing the ON/OFF switch  to the "ON" position. Failure to do so could damage the frypot and elements.


1. Fill the frypot with oil to the bottom 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, first raise the elements, then pack solid shortening into the bottom of the frypot. Lower the elements, and then pack solid shortening around and over the elements. **Never** insert a solid block of shortening into frypot on top of the elements. Hot spots and element damage will occur, and the potential for flash-fire increases.

⚠ WARNING

NEVER set a complete block of solid shortening on top of heating elements. To do so will damage the elements and increase the potential for flash-point shortening temperatures and subsequent fire.

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 programmed cooking temperature*. It may be necessary to add oil to bring the level up to the proper mark, *after the oil has reached the programmed cooking temperature*. If solid shortening is used, the MELT cycle **MUST** be used to melt the shortening. It may be necessary to add solid shortening to bring the level up to the proper mark after the packed shortening has melted. **DO NOT DISABLE OR CANCEL THE MELT CYCLE.**

Shutdown

1. Press the ON/OFF switch  to the "OFF" position (Follow instructions in the controller manual that shipped with the fryer).
2. Filter oil (if applicable) and clean fryers (See Chapter 3).
3. Place the frypot covers on frypots.

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CHAPTER 3: PREVENTATIVE MAINTENANCE

3.1 Cleaning Fryer

3.1.1 Clean Inside and Outside of Fryer Cabinet— Daily

1. Clean inside the fryer cabinet with a dry, clean cloth. Wipe all accessible metal surfaces and components to remove accumulated oil and dust.
2. Clean outside the fryer cabinet with a clean, damp cloth soaked with dishwashing detergent. Wipe with a clean, damp cloth.

3.1.2 Clean the Built-In Filtration System - Daily



Never operate the filter system without oil in the system.



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



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 system 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 and tightened with the wrench.

3.1.3 Clean Filter Pan, Detachable Parts and Accessories - Daily

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 the parts and accessories thoroughly with clean water and wipe dry before reinstalling. **DO NOT** use steel wool or abrasive pads to clean these parts. The scratches that result from such scrubbing make subsequent cleanings more difficult.

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CHAPTER 3: PREVENTATIVE MAINTENANCE

3.1.4 Clean Frypot and Heating Elements— Weekly

 **WARNING**

NEVER operate the fryer(s) with an empty frypot. Irreparable damage to the heating elements will result.

Boiling Out the Frypot:

See Section 2.5 for boil-out procedure. For controller operational procedures, consult the controller manual that shipped fryer.

 **WARNING**

DO NOT leave the fryer unattended during the boil-out process. If the solution foams excessively and overflows, press the ON/OFF switch to the "OFF" position immediately. Allow solution to settle, and then continue with the boil-out process.

 **WARNING**

Do not run water or boil-out solution through the filtration system. Doing so will cause irreparable damage to the pump and all applicable warranties will be voided.

3.1.5 Draining and Manual Filtering: Non-Filtration Fryers

 **DANGER**

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

If your fryer is not equipped with a built-in filtration system, the oil must be drained into another suitable container. (For safe, convenient draining and disposal of used oil or shortening, Frymaster recommends using the Frymaster *Shortening Disposal Unit*, SDU, available through your local distributor.)

1. Turn the fryer power switch to the "OFF" position. Screw the drainpipe (provided with your fryer) into the drain valve. Make sure the drainpipe is firmly screwed into the drain valve and that the opening is pointing down.
2. Position a metal container under the drainpipe. The metal container must be able to withstand the heat of the oil and have a sealing lid. If you intend to reuse the oil, Frymaster recommends that a Frymaster filter cone holder and filter cone be used when a filter machine is not available. If you are using a Frymaster filter cone holder, be sure that the cone holder rests securely on the metal container.
3. Open the drain valve slowly to avoid splattering. If the drain valve becomes clogged with food particles, use the Fryer's Friend (clean-out rod) to clear the blockage.

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DANGER

DO NOT insert anything into the drain from the front to unclog the valve. Hot oil will rush out, creating an extreme hazard.

WARNING

DO NOT hammer on the drain valve with the Fryer's Friend. This will damage the drain valve ball and prevent the valve from sealing securely, resulting in a leaky valve.

4. After draining the oil, clean all food particles and residual oil from the frypot. BE CAREFUL, this material may still cause severe burns if it comes in contact with bare skin.
5. Close the drain valve securely and fill the frypot with clean, filtered or fresh oil or solid shortening to the bottom OIL LEVEL line.

For frying systems with built-in filtration, see Chapter 4 for detailed operational procedures.

3.1.6 MONTHLY CHECKS AND SERVICE

3.1.6.1 Deep Cleaning (Boiling Out/Cold Clean) the Frypot – Minimally Monthly

DANGER

Never operate the appliance with an empty frypot. The frypot must be filled to the fill line with water or cooking oil before energizing the elements. Failure to do so will result in irreparable damage to the elements and may cause a fire.

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 the controller manual for specific details on setting up the controller for clean (boil-out) operation.*

DANGER

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

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

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.

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CHAPTER 3: PREVENTATIVE MAINTENANCE

3.2 Periodic/Annual Maintenance

Frymaster **recommends** that the fryer be inspected annually by a **Factory Authorized Servicer** for the following checks and adjustments:

- Inspect the cabinet inside and out, front and rear for excessive oil build-up.
- Verify that the heating element wires are in good condition and that leads have no visible fraying or insulation damage and that they are free of oil build-up.
- Verify that heating elements are in good condition with no carbon/caramelized oil build-up. Inspect the elements for signs of extensive dry-firing.
- Verify that the tilt mechanism is working properly when lifting and lowering elements and that the element wires are not binding and/or chafing.
- Verify the heating-element amp-draw is within the allowed range as indicated on the appliance's rating plate.
- Verify that the temperature and high-limit probes are properly connected, tightened and functioning properly, and that the mounting hardware and probe guard is present and properly installed.
- Verify that component box and contactor box components (i.e. computer/controller, relays, interface boards, transformers, contactors, etc.) are in good condition and free from oil build-up and other debris.
- Verify that component box and contactor box wiring connections are tight and that wiring is in good condition.
- Verify that all safety features (i.e. contactor shields, drain safety switches, 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 all wiring harnesses and connections are tight and in good condition.

Built-in Filtration:

- 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 fireproof container and cleaned daily.
- Verify that all O-rings and seals (including those on quick-disconnect fittings) are present and in good condition. Replace O-rings and seals if worn or damaged.

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CHAPTER 3: PREVENTATIVE MAINTENANCE

- Check filtration system integrity as follows:
 - With the filter pan empty, place each oil return handle, one at a time, in the ON position. Verify that the pump activates and that bubbles appear in the oil of the associated frypot.
 - Close all oil return valves (i.e., place all oil return handles in the OFF position). Verify proper functioning of each oil return valve by activating the filter pump using the lever on one of the oil return handle microswitches. No air bubbles should be visible in any frypot.
 - Verify that the filter pan is properly prepared for filtering, and drain a frypot of oil heated to 350°F (177°C) into the filter pan. Close the frypot drain valve. Place the oil return handle in the ON position. Allow all oil to return to the frypot (indicated by bubbles in the oil). Return the oil return handle to the OFF position. The frypot should refill in no more than 2 minutes and 30 seconds.

To ensure good fryer operation and a safe environment, the fryer should be checked and adjusted periodically by qualified service personnel as part of a regular kitchen maintenance program.

3.3 Stainless Steel Care

All stainless steel fryer outer parts should be wiped regularly with hot, soapy water during the day and with a liquid cleaner designed for this material at the end of each day.

Do not use steel wool, abrasive cloths, cleansers or powders.

Do not use a metal knife, spatula or any other metal tool to scrape stainless steel. Scratches are almost impossible to remove.

If it is necessary to scrape the stainless steel to remove any encrusted materials, soak the area first to loosen the material, then use a wood or nylon scraper only.

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CHAPTER 4: BUILT-IN FILTRATION

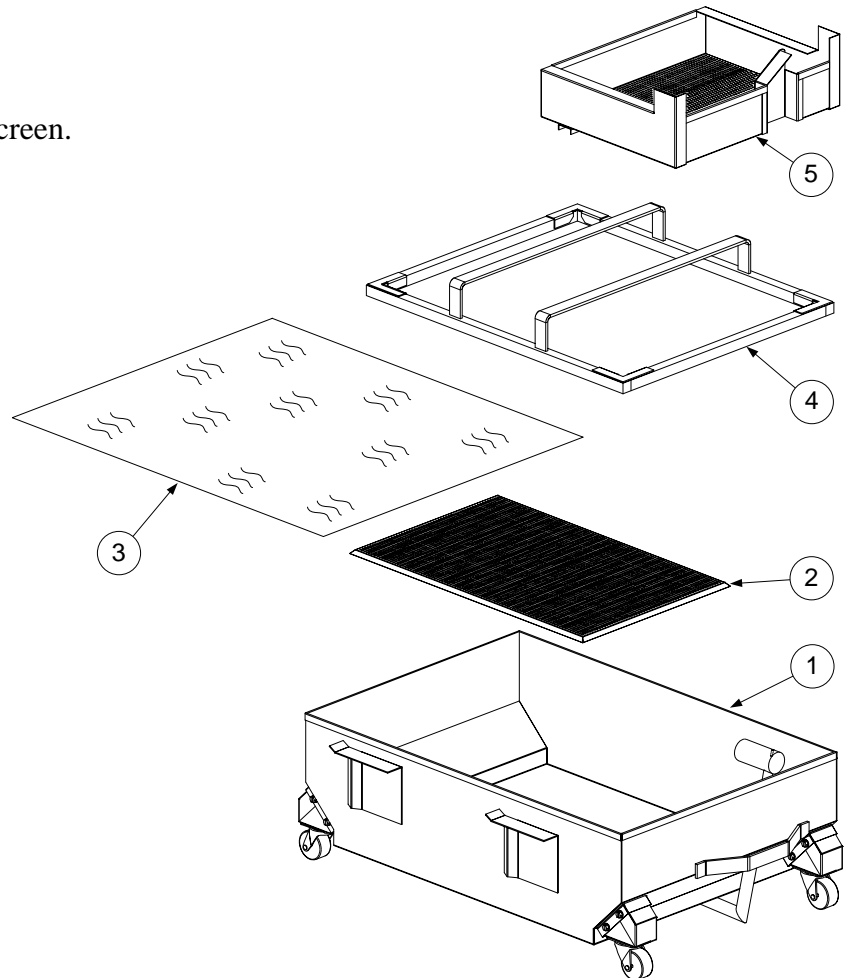
4.1 Filtration Preparation

On initial installation and before each use, remove all loose parts from the filter, wash the filter pan and all accessories in hot, soapy water and dry thoroughly.

4.1.1 Assembling the Filter

The filter pan uses filter paper held in place by a hold-down ring to filter impurities and debris from the cooking medium. The filter pan is assembled with the following components (see illustration below):

1. Filter pan.
2. Filter support grid/inner screen.
3. Filter paper.
4. Hold-down ring.
5. Crumb screen.



4.2 Daily Filtration Operation

4.2.1 General Overview

The filter pump is turned on only after the oil is brought to operating temperature and drained into the prepared filter pan. The filter motor is then engaged and oil is drawn through filter paper and pumped back into the frypot. The frypot drain valve remains open during the filtering process. Allow the oil to cycle through the filter paper for approximately 5 minutes. At the end of 5 minutes, close the drain valve and allow the pump to fill the frypot. Leave the pump running for ten to fifteen seconds after bubbles appear in the frypot to ensure all oil is pumped from the drain pan and the lines.

4.2.2 Filtering Tools

Assemble tools to be used for filtering. These are supplied with the filter starter kit included with the fryer/filter system:

- Frypot/Filter Brush—used to clean frypot and filter pan sides and bottom, heating elements, and to dislodge sediment during filtration or oil change.
- Clean-Out Rod— used to dislodge heavy debris in the drain tube (when needed).
- Filter Powder.
- Filter Paper.

The following tools are not required, but are recommended to make the filtering task easier.

- Measuring Cup — used to measure filter powder.
- Stainless Steel Crumb Scoop — for removing large debris.



WARNING

Use caution and wear proper protective clothing. The oil to be filtered is at or near 350°F (177°C). Ensure all hoses are connected properly and drain handles are in their proper position prior to operating any switches or valves. Failure to do this can result in severe burns.



WARNING

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

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CHAPTER 4: BUILT-IN FILTRATION

4.3 Operating the Filter

Pull the filter pan outward until the slip fitting disconnects. Allow any residual oil left in the fittings to drip into the pan. Remove the filter pan from fryer cabinet. Use caution and wear protective gear.

Remove the filter pan components: crumb tray, hold-down ring, filter paper and inner screen.



Clean the pan and replace the components. The inner screen is supported by stiffening rails on the bottom, which align it with the sump. See photo below. Insert the components in this order:



1. Inner screen — ensure it is aligned with pins and flat.
2. Lap filter paper over filter pan.
3. Press filter paper into the pan with the hold-down ring. The notch goes toward the pick-up tube. Sprinkle filter powder on the filter paper.
4. Position the crumb basket.
5. Ensure the O-rings on the male pick-up tube are intact.

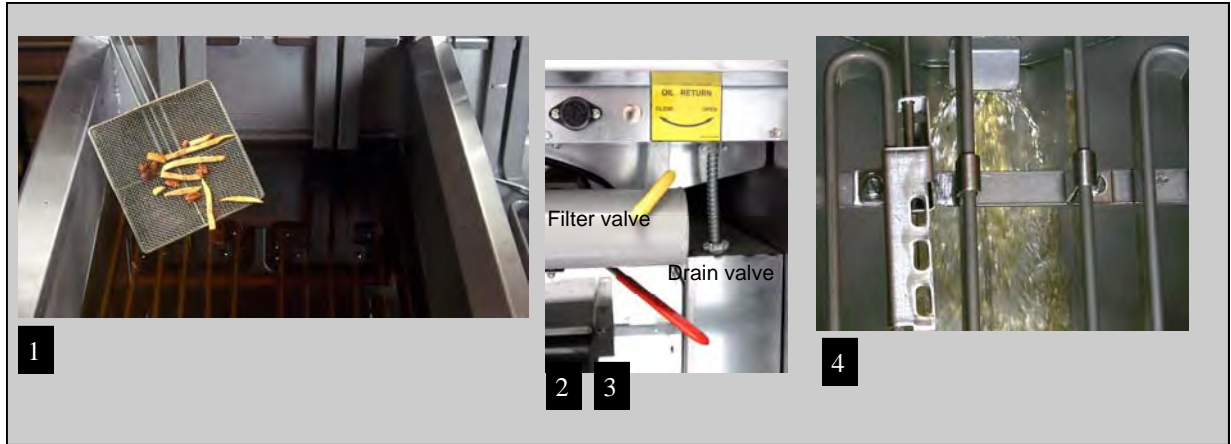
Slide the filter pan firmly into position.



5. Ensure the O-ring on the male pick-up tube are intact.

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 4: BUILT-IN FILTRATION



Filtration

Ensure the filter pan is prepared for filtration. Ensure the fryer is at operating temperature and turn it off and follow these steps:

Note: Always wear oil-resistant, insulated gloves and/or protective gear when working with hot oil.

1. Skim large debris from the frypot.
2. Open the drain valve. Drain only one frypot at a time.
3. Turn the filter pump on. Leave the drain open.
4. Oil flows from the filter pan to the frypot and out the open drain. Allow the oil to flow for 5 minutes to remove suspended particles from the oil.
5. Close the drain valve. Leave the filter pump on.
6. Oil rises in the fry pot, forming bubbles as the filter pan empties. Allow the bubbles to form for 10-15 seconds, which cleans the return lines of oil.
7. Turn the filter pump off. Add oil if necessary to reach top line in the frypot.
8. Clean debris from the crumb tray. The crumb tray **MUST** be emptied into a fireproof container at the end of frying operations **EACH** day.



- 6 Allow returning oil to bubble in the frypot for 10-15 seconds, which clears the return lines of oil.



- 8 Clear debris from the crumb tray. The tray must be emptied in a fireproof container at the end of operations each day.



CAUTION

NEVER operate the filter unit unless oil is at operating temperature [$\sim 350^{\circ}\text{F}$ (177°C)].



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.

HIGH PRODUCTION RE (HPRE) E⁴ SERIES ELECTRIC FRYERS

CHAPTER 4: BUILT-IN FILTRATION

Using the Wand/Disposal System

Larger systems can be optionally equipped with a disposal hose. Follow these steps to use the hose.

With oil in the filter pan and the filter pump off, connect the hose to the quick disconnect on the front of the fryer. (See photo above).

Direct the hose into the frypot or a disposal suitable to hold hot oil.

Turn the pump on with the rocker switch mounted on front of the fryer. Oil flows from the filter pan through the hose to the frypot or the disposal vessel. Leave the frypot drain valve open when using the hose to wash out crumbs and debris.



Connect the disposal wand hose to the quick disconnect on front of the fryer.



With the hose directed into the frypot, turn on the pump with the front-mounted switch.

Using the Drain Flush System

Three-battery and larger systems may come equipped with an optional drain flush. To use the system:

- After filtering frypot #3 (farthest from the filter) for 5 minutes, close the oil return valve to stop the filtering process. Do not refill the frypot.
 - Close the drain valve (red handle) on the frypot being filtered. Ensure all other valves (red and yellow handles) are closed.
 - Pull the blue handle to open the flush valve. After the drain line is clear of sediment (approximately 2 minutes), push the blue handle to close flush valve.
- Open the oil-return valve (yellow handle) to refill the frypot.



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 frypots. 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.

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CHAPTER 5: OPERATOR TROUBLESHOOTING

5.1 Introduction

This section provides an easy reference guide to some of the common problems that may occur during the operation of this equipment. The troubleshooting guides that follow are intended to help correct, or at least accurately diagnose, problems with this 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. Never overlook the obvious – anyone can forget to plug in a cord or fail to close a valve completely. Most importantly, always try to establish a clear idea of why a problem has occurred. Part of any 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, too. 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.

Before calling a service agent or the Frymaster HOTLINE (1-800-551-8633):

- **Verify that electrical cords are plugged in and that circuit breakers are on.**
- **Verify that frypot drain valves are fully closed.**

 **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.

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CHAPTER 5: OPERATOR TROUBLESHOOTING**

5.2 Troubleshooting

5.2.1 Control and Heating Problems

Problem	Probable Causes	Corrective Action
Controller won't activate.	A. Power cord is not plugged in or circuit breaker is tripped.	A. Plug power cord in and verify that circuit breaker is not tripped.
	B. Controller has failed.	B. Call FAS.
	C. Power supply component or interface board has failed.	C. Call FAS.
Fryer does not heat.	A. Drain valve is open.	A. Verify that the drain valve is fully closed.
	B. Controller has failed.	B. Call FAS.
	C. One or more other components have failed.	C. Call FAS.
Fryer repeatedly cycles on and off when first started.	Fryer is in melt-cycle mode.	<p>This is normal for fryers equipped with <i>computer controllers</i>. Refer to the controller manual shipped with the fryer for the procedure for canceling the melt-cycle.</p> <p>In fryers equipped with <i>Solid State (Analog)</i> controllers, the melt-cycle is controlled manually by means of the rocker switch to the right of the temperature control knob. <i>If not using solid shortening</i>, turn off the melt cycle feature with rocker switch.</p>
Fryer does not heat after filtering.	Drain valve is open.	Verify that the drain valve is fully closed.
Fryer heats until high-limit trips with heat indicator ON.	Temperature probe or controller has failed.	Call FAS.
Fryer heats until high-limit trips without heat indicator ON.	Contact or controller has failed.	Call FAS.
Fryer stops heating with heat indicator ON.	The high-limit thermostat or contactor has failed.	Call FAS.

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5.2.2 Error Messages and Display Problems

Problem	Probable Causes	Corrective Action
Display is in wrong temperature scale (Fahrenheit or Celsius).	Incorrect display option programmed.	Refer to the controller manual that shipped with the fryer for instructions on changing the display.
CM III.5 or Digital Controller displays HELP. CM4-S, K3000 and KFC-1 displays OPEN DRAIN	Open drain valve or problem with latching circuitry.	Verify that the drain valve is fully closed. If that doesn't correct the problem, call FAS.
Displays HI.	Fryer is more than 21°F (12°C) above setpoint.	The setpoint has been set artificially low or there is a problem with the temperature control circuitry. Check the setpoint setting. If accurate, turn the fryer off and call FAS.
CM III.5 or Digital Controller displays HOT. CM4-S, K3000 and KFC-1 displays HI-TEMP or HI-TEMP PROBE FAILURE.	Frypot temperature is more than 410°F (210°C) or, in CE countries, 395°F (202°C).	This is an indication of a malfunction in the temperature control circuitry, including a failure of the high-limit thermostat. Shut the fryer down immediately and call FAS.
Controller displays LO or LOW TEMP.	Frypot temperature is more than 21°F (12°C) below setpoint.	This display is normal when the fryer is first turned on and may appear for a short while if a large batch of frozen product is added to the frypot. If the display never goes out, the fryer is not heating. Shut the fryer off and call FAS.

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5.2.2 Error Messages and Display Problems (cont.)

Problem	Probable Causes	Corrective Action
CM4-S, K3000 and KFC-1 displays LOW.	Fryer temperature is below 255°F (124°C).	This display is normal when the fryer is first turned on. If the display never goes out, the fryer is not heating and may be malfunctioning. Shut the fryer off and call FAS.
CM4-S, K3000 and KFC-1 displays IGNITION FAILURE.	Fryer's ignition module has failed. Fryer will not ignite or heat.	Shut the fryer off and call FAS.
CM III.5 or Digital Controller displays Prob. CM4-S, K3000 and KFC-1 display shows PROBE FAILURE.	Problem with the temperature measuring circuitry including the probe.	Shut the fryer off and call FAS.
CM III.5 frypot temperature is displayed constantly.	Computer is programmed for constant temperature display.	Refer to the separate <i>Frymaster Fryer Controllers User's Manual</i> for instructions on toggling between these display options.

5.2.3 Basket Lift Problems

Problem	Probable Causes	Corrective Action
Basket lift movement is noisy, jerky, or erratic.	Lack of lubrication on basket lift rods.	Apply a light coating of Lubriplate or similar lightweight white grease to the rod and bushings.

5.2.4 Built-in Filtration Problems

Problem	Probable Causes	Corrective Action
Filter pump won't start.	A. Power cord is not plugged in or circuit breaker is tripped.	A. Verify that the power cord is fully plugged in, circuit breaker is not tripped.
	B. Pump motor has overheated causing the thermal overload switch to trip.	B. Allow the motor to cool at least 45 minutes then press the Pump Reset Switch.
	C. Blockage in filter pump. Test: Close the drain valve and pull the filter pan out from the fryer. Activate the pump. If the pump motor hums for a short time then stops, the probable cause is blockage of the pump itself.	C. Pump blockages are usually caused by sediment buildup in the pump due to improperly sized or installed filter paper and failure to use the crumb screen. Call FAS. Note: Blockages due to improperly sized or installed filter paper and/or failure to use the crumb screen are not covered under warranty.

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5.3 Recommended Spare Parts

Below is a list of recommended spare parts for the HPRE E⁴ Series Electric Fryers.

ELEMENTS: Determine what elements are required and order from the list below.	
Part Number	Description
807-4656	Element- 208V 8.5 kW
807-4714	Element- 480V 10.25 kW
807-4711	Element- 240V 8.5 kW
807-4687	Element- 208V 10.25 kW
807-4713	Element- 240V 8.5 kW (USE FOR 220V 7 kW)
807-5184	Element- 230V 8.5 kW
807-4707	Probe, Temperature 1721RE
826-2456	High Limit Kit- 435°F (224°C)- All Units Non-CE
826-2455	High-Limit- 415°F (213°C)- 17 kW Units Only CE
826-2457	High-Limit- 405°F (207°C)- 21kW Units Only CE
807-2191	Transformer, 208-240V, 50/60Hz –12V 20VA
807-2180	Transformer, 208-240V, 50/60Hz –24V 20VA
807-2284	Contactactor, Mechanical- 240VAC 50-Amp (17 kW Units)
807-2283	Contactactor, Mechanical - 240VAC 63-Amp (21 kW Units)
810-1202	Contactactor, Latching- 40-Amp, 3-Pole
826-2256	Interface board kit, Standard
826-2262	Interface board kit, for use with FAST controllers

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Welbilt offers fully-integrated kitchen systems. Welbilt's portfolio of award-winning brands includes Cleveland™, Convotherm®, Crystal Tips®, Dean®, Delfield®, Fabristeel®, Frymaster®, Garland®, Inducs®, Koldtech®, Kolpak®, Lincoln®, McCann's™, Merco®, Merrychef®, Multiplex®, RDI®, SerVend™, SunFire®, U.S. Range™, and WMaxx™. Supported by service brands: FitKitchen®, kitchen systems; and KitchenConnect®, cloud-based open platform.

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