

INSTALLATION & OPERATIONAL MANUAL

GRD & GRC SERIES GAS FRYERS With KleenScreen *PLUS*® Filtration Systems



1GR45D Shown

MODELS:

1GR45D 1GR45C 1GR65D 1GR65C 1GR85D	ML-136411 ML-136414 ML-136412 ML-136415 ML-136413
1GR85C	ML-136416
2GR45DF	ML-136424
2GR45CF	ML-136431
3GR45DF	ML-136427
3GR45CF	ML-136434
4GR45DF	ML-136430
4GR45CF	ML-136437
2GR65DF	ML-136425
2GR65CF	ML-136432
3GR65DF	ML-136428
3GR65CF	ML-136435
4GR65DF	ML-136662
4GR65CF	ML-136663
2GR85DF	ML-136426
2GR85CF 3GR85DF	ML-136433 ML-136429
3GR85CF	ML-136436
4GR85DF	ML-136665
4GR85CF	ML-136666
2XG45DF	ML-136562
2XG45CF	ML-136563
2XG65DF	ML-136638
2XG65CF	ML-136639
2XG85DF	ML-136565
2XG85CF	ML-136566

For additional information on Vulcan-Hart or to locate an authorized parts and service provider in your area, visit out website at <u>www.vulcanhart.com</u>

VULCAN-HART DIVISION OF ITW FOOD EQUIPMENT GROUP, LLC WWW.VULCANHART.COM 3600 NORTH POINT BLVD. BALTIMORE, MD 21222 F-31214 REV. D (March 2008)

IMPORTANT FOR YOUR SAFETY

THIS MANUAL HAS BEEN PREPARED FOR PERSONNEL QUALIFIED TO INSTALL GAS EQUIPMENT, WHO SHOULD PERFORM THE INITIAL FIELD START-UP AND ADJUSTMENTS OF THE EQUIPMENT COVERED BY THIS MANUAL.

POST IN A PROMINENT LOCATION THE INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE SMELL OF GAS IS DETECTED. THIS INFORMATION CAN BE OBTAINED FROM THE LOCAL GAS SUPPLIER.

IMPORTANT

IN THE EVENT A GAS ODOR IS DETECTED, SHUT DOWN UNITS AT THE MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

A WARNING

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

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INTRODUCTION

GENERAL

Vulcan Fryers are produced with quality workmanship and material. Proper installation, usage and maintenance will result in years of satisfactory performance.

Before installing the fryer, thoroughly read this manual and carefully follow all instruction.

This manual is applicable to model listed on the cover page. Procedures in this manual will apply to all models unless specified. Pictures and illustrations can be of any model unless the picture or illustration needs to be model specific.

ORDERING PARTS

Customers may order parts directly from their local authorized service center. If not known, call Vulcan Customer Service at 800-814-7028.

To speed up your order, provide the model number, serial number, gas type, part needed, item part number (if known) and quantity needed.

FRYER CAPACITY				
MODEL - GMO	# of Heat Tubes Each Fry Tank	BTU / Hour Each Fry Tank	Width Inch (cm) Total System	Shortening Ibs. (kg) Each Fry Tank
1GR45D	4	120,000	15.5" (39)	45-50 (21-23)
1GR45C	4	120,000	15.5" (39)	45-50 (21-23)
1GR65D	5	150,000	21.0" (53)	65-70 (29-32)
1GR65C	5	150,000	21.0" (53)	65-70 (29-32)
1GR85D	5	150,000	21.0" (53)	85-90 (39-41)
1GR85C	5	150,000	21.0" (53)	85-90 (39-41)
2GR45DF	4	120,000	31.0" (79)	45-50 (21-23)
2GR45CF	4	120,000	31.0" (79)	45-50 (21-23)
3GR45DF	4	120,000	46.5" (118)	45-50 (21-23)
3GR45CF	4	120,000	46.5" (118)	45-50 (21-23)
4GR45DF	4	120,000	62.0" (158)	45-50 (21-23)
4GR45CF	4	120,000	62.0" (158)	45-50 (21-23)
2GR65DF	5	150,000	42.0" (107)	65-70 (29-32)
2GR65CF	5	150,000	42.0" (107)	65-70 (29-32)
3GR65DF	5	150,000	63.0" (160)	65-70 (29-32)
3GR65CF	5	150,000	63.0" (160)	65-70 (29-32)
4GR65DF	5	150,000	84.0" (214)	65-70 (29-32)
4GR65CF	5	150,000	84.0" (214)	65-70 (29-32)
2GR85DF	5	150,000	42.0" (107)	85-90 (39-41)
2GR85CF	5	150,000	42.0" (107)	85-90 (39-41)
3GR85DF	5	150,000	63.0" (160)	85-90 (39-41)
3GR85CF	5	150,000	63.0" (160)	85-90 (39-41)
4GR85DF	5	150,000	84.0" (214)	85-90 (39-41)
4GR85CF	5	150,000	84.0" (214)	85-90 (39-41)

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UNPACKING

This fryer was carefully inspected before leaving the factory. Upon acceptance of the shipment, the transportation company assumes full responsibility for safe delivery.

Immediately after unpacking the fryer, check for possible shipping damage. If the fryer is damaged, save the packaging material and contact the carrier within 15 days of delivery.

Check that the following have been included:

- Crumb Rack(s)
- Basket Hanger(s)
- Tank Brush
- Adjustable Casters (4) two locking, two non-locking for freestanding fryers. Fryer Batteries with the KleenScreen *PLUS*® Filtration System have casters installed from the factory.
- Drain Pipe Extension for freestanding fryers only.
- Twin Fry Baskets (2) per fry tank
- Cleanout Rod
- Crumb Scoop
- Fryer Batteries with the KleenScreen *PLUS®* Filtration System
 - Filter Pan
 - Suction Tube
 - Screen Assembly
 - Complimentary Pack of Micro-Filtration Envelopes
 - Crumb Basket
 - 6' high temperature discard hose
- Manual, Quick Start Guide(s), and Warranty

Do not use the door or its handle to lift the fryer.

INSTALLATION

Before installing the fryer, verify that the type of gas (natural or propane) agrees with the specifications on the fryer data plate, which is located on the inside of the door panel. Make sure the fryer is configured for the proper elevation.

Record your fryer model, device, and serial numbers for future reference in the space provided below. This information can be found on the fryer data plate.

Fryer Model No: _____

Device: _____

Serial No: _____

GRDF / GRCF SERIES GAS FRYERS Clearances

• Minimum clearance from combustible construction:

6" (15 cm) from the sides of the fryer 6" (15 cm) from the back of the fryer The fryer may be installed on combustible floors

• Minimum clearance from noncombustible construction:

0" from the sides of the fryer 0" from the back of the fryer

• Between the fryer and any open-top flame units:

16" (41 cm)

• Allow space for servicing and operation.

Location

- Install fryer in an area with sufficient air supply for gas combustion at fryer burners.
- Do not obstruct the flow of combustion and ventilation air.
- Provide adequate clearance for air openings into the combustion chamber.
- Do not permit fans to blow directly onto fryer.
- Avoid wall-type fans, which create cross-currents within a room. Avoid open windows next to sides or back.

CODES AND STANDARDS

The fryer must be installed in accordance with:

In the United States:

- State and local codes, or in the absence of local codes, with:
- National Fuel Gas Code, ANSI-Z223.1/NFPA #54 (latest edition). Copies may be obtained from The American Gas Association Accredited Standards Committee Z223, @ 400 N. Capital St. NW, Washington, DC 20001 or the Secretary Standards Council, NFPA, 1 Batterymarch Park Quincy, MA 02169-7471.
- NFPA Standard #96 Vapor Removal from Cooking Equipment, latest edition, available from the National Fire Protection Association, Batterymarch Park, Quincy, MA. 02169-7471.
- National Electrical Code, ANSI/NFPA-70 (latest edition). Copies may be obtained from The National Fire Protection Association, Batterymarch Park, Quincy, MA. 02169-7471.

 In the commonwealth of Massachusetts all gas appliances vented through a ventilation hood or exhaust system with a damper or with a power means of exhaust shall comply with 248 CMR.

In Canada:

- Local codes
- CAN/CSA-B149.1 Natural Gas Installation (latest edition).
- CAN/CSA-B149.2 Propane Installation Code (latest edition), available from the Canadian Gas Association 178 Rexdale Blvd., Etobicoke, Ontario Canada M9W 1R3.
- CSA C22.1 Canadian Electric Code L4W 5N6.

ASSEMBLY

The fryer must be restrained to prevent tipping and the splashing of hot liquid. The means of restraint may be the manner of installation, such as connection to a battery of appliances, installing the fryer in an alcove, or by separate means such as adequate ties.

FLUE CONNECTION

Make the flue connection as follows:

- Comply with Vapor Removal from Cooking Equipment, ANSI-NFPA Standard #96 (latest edition), available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.
- Locate the fryer under a hood with adequate connection to an exhaust duct. The hood must extend 6" (15 cm) beyond fryer on both sides.
- Clearance above the fryer should be adequate for combustion byproducts to be removed efficiently.
- An 18" (46 cm) minimum clearance should be maintained between the flue vent and the filters of the hood venting system.
- Never make flue connections directly to the fryer.
- Do not obstruct the flow of the gases from the appliance. Proper air balance should be maintained in the room.

GAS CONNECTION

NOTICE All gas supply connections and any pipe joint compound must be resistant to the action of propane gases.

The gas inlet is located on the lower rear of the fryer. Codes require that a gas shutoff valve be installed in the gas line ahead of the fryer.

The gas supply line must be at least the equivalent of $\frac{1}{2}$ " (12.7 mm) iron pipe for single units and 1-1/4" (31.75 mm) for batteries. If using the optional quick-disconnect flex hose, $\frac{3}{4}$ " (19 mm) iron pipe for single units and 1-1/4" (31.75 cm) iron pipe for batteries.

Make sure the pipes are clean and free of obstructions, dirt, and piping compound. A battery requires one or two connections of appropriate size for the gas requirement.

A WARNING Prior to lighting, check all joints in the gas supply line for leaks. Use soap and water solution. Do not use an open flame.

After piping has been checked for leaks, fully purge gas pipes to remove air.

GAS PRESSURES (ALL MODELS):

The gas pressure should be set at 4" W.C. (Water Column) (0.8 kPa) for natural gas and 10" W.C. (2.75 kPa) for propane gas. If incoming pressure exceeds $\frac{1}{2}$ PSI (3.45 kPa), an additional pressure regulator must be installed.

TESTING THE GAS SUPPLY PIPING SYSTEM:

When test pressures exceed ½ PSI (3.45 kPa), the fryer and its individual shutoff valve must be disconnected from the gas supply piping system.

When test pressures are $\frac{1}{2}$ PSI (3.45 kPa) or less, the fryer must be isolated from the gas supply piping system by closing its individual shutoff valve.

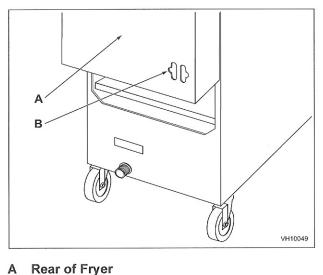
Fryers with Casters:

Separate instructions for installing casters are included with the casters:

 The installation shall be made with a connector that complies with the Standard for Connectors for Movable Gas Appliances, ANSI Z21.69 or Connectors for Moveable Gas Appliances, CAN/CGA-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 Quick-Disconnect Devices for Use with Gas Fuel, CANI-6.9.

GRDF / GRCF SERIES GAS FRYERS

 When installing a quick disconnect you must also install a means for limiting the movement of the fryer. This device will prevent the gas line or quick disconnect from being strained. The restraining device should be attached to the cutout on the back panel. See illustration for location.



B Strain Relief Chain Connection (Chain supplied by others)

- In Australia, use only the caster supplied by the manufacturer for the fryer device. The fryer must be installed using a hose assembly restraining device to limit the movement of the appliance in accordance with AS1869.
- The fryer must be installed with a connector (not supplied by Vulcan) complying with the above codes.
- The fryer must be installed with restraining means to guard against transmission of strain to the connector. See illustration.
- The fryer must be installed with the casters provided.
- If the restraint is ever to be disconnected, first turn the gas supply off.

LEVELING THE FRYER

Check the level of the fryer by placing a level on top of the fryer after gas connections have been made.

Ensure that the fryer is level front-to-back and side-to-side in the final installed position.

If using casters, lock the wheels after unit is level.

OPERATION

A WARNING Hot oil and parts can cause burns. Use care when operating, cleaning and servicing the fryer.

A WARNING Spilling hot frying compound can cause severe burns. Do not move fryer without draining all frying compound from the tank.

OVER-TEMPERATURE SHUTDOWN

If the shortening becomes overheated, a high-temperature shutoff device will turn the gas valve off and extinguish the pilot.

If the fryer shuts down due to overheating, DO NOT power up the pilot until the shortening temperature is below 300°F (149°C).

If an overheating situation persists, contact your local Vulcan-Hart authorized service office.

BEFORE FIRST USE

Cleaning

New units are wiped down at the factory to remove any visible signs of dirt, oil, grease, etc. remaining from the manufacturing process.

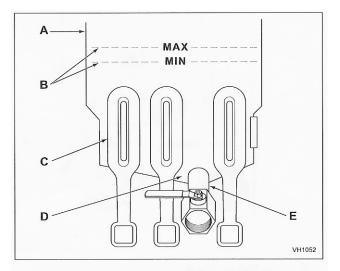
Before any food preparation, thoroughly wash the protective oil from all surface parts and the tank interior with hot soapy water to remove any film residue and dust or debris.

NOTICE Do not use chlorine or sulfate/sulfide cleaners.

- Wash any accessories shipped with unit.
- Rinse fryer and accessories thoroughly and drain the fryer.
- Wipe tank completely dry with a soft, clean cloth.

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FILLING TANK WITH SHORTENING



- A Fryer Tank
- B MIN and MAX Fill Level Lines
- C Heat Pipes
- D Cold Zone
- E Drain Pipe
- Close the drain valve.
- Fill the fryer tank with liquid shortening.
- Shortening level should be between the min and max lines in the fryer tank.
- Shortening will expand when heated. Do not fill the fryer tank past the MAX line.
- Add fresh shortening as needed to maintain oil level.

BASIC FRYING INSTRUCTION

- Set the desired temperature and allow shortening to heat up to that temperature.
- Fry items that are the same size to ensure equal doneness.
- Drain or wipe dry raw or wet foods to minimize splatter when lowering into hot shortening.
- Add fresh shortening as needed.

Fry Basket Guidelines

- Do not overfill baskets. (See table for recommended basket capacities below) Carefully lower basket into oil.
- When frying doughnuts and fritters, turn product only once during frying.
- When cooking French fries or onion rings, shake the basket several times.
- Batter covered foods should be dropped carefully, one by one, into shortening or basket. If you use the basket, first dip the basket into the shortening to reduce batter-build up on basket surfaces.
- When frying is completed, remove basket or product. Hang basket on rear hanger.

Fry Basket Capacity:

1GR45D / C: Recommended pounds per basket are 2.5 lbs. (1.1 kg). 1GR65D / C: Recommended pounds per basket are 3.0 lbs. (1.4 kg). 1GR85D / C: Recommended pounds per basket are 3.5 lbs. (1.6 kg).

EXTENDING SHORTENING LIFE

Shortening life can be extended by the following guidelines:

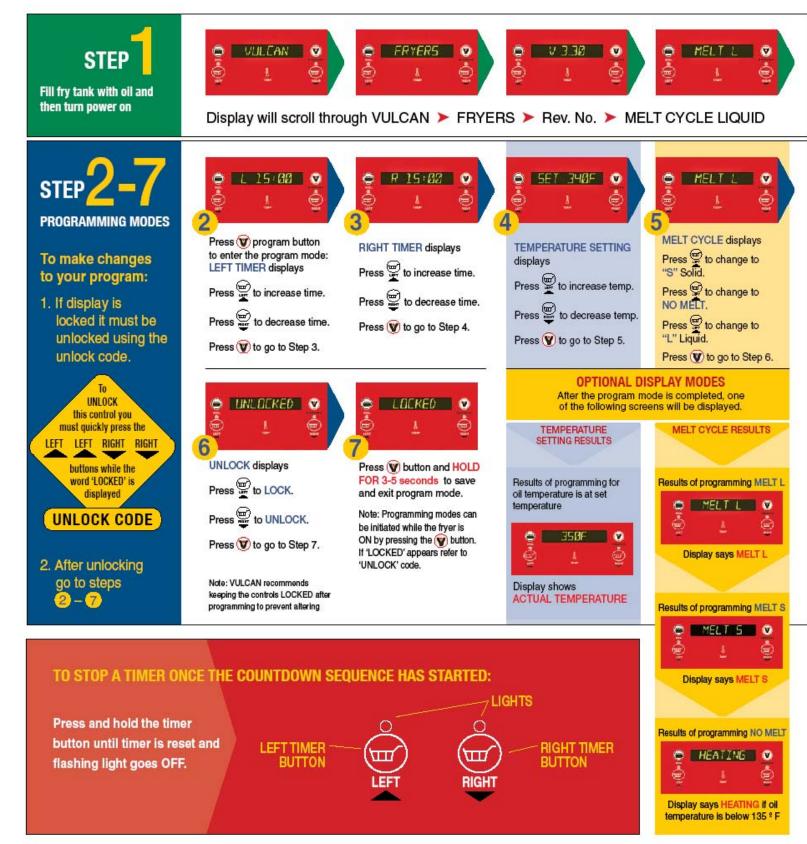
- Do not salt foods over the fryer.
- Use good-quality shortening.
- Filter shortening daily (at a minimum).
- Replace shortening if it becomes poorly flavored.
- Keep equipment and surrounding clean.
- Set thermostat correctly.
- Remove excess moisture and particles from food products before placing on fryer.

TURNING ON THE FRYER

- Open the door to the fryer. Turn the power switch to the on position.
- Set temperature by turning the knob to the desired temperatures. The burners will light automatically.
- The burners will cycle on and off, maintaining the set temperature.

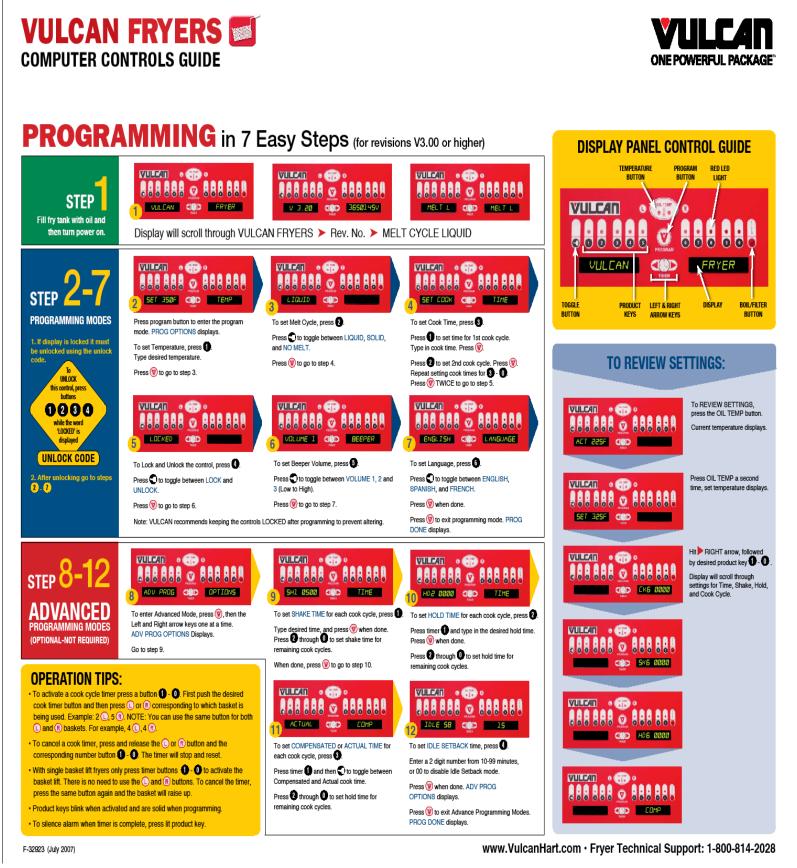
Programming the Solid State Control

Programming in 7 Easy Steps (for revisions V3.00 or higher)



 $-13- \\ \text{Download from Www.Somanuals.com. All Manuals Search And Download.}$

Programming the Computer Control



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FILTERING THE OIL

A WARNING Hot oil and hot parts can cause burns. Use care when operating, cleaning, and servicing the fryer.

Filter shortening at least once a day.

- 1. Do NOT turn off the power to the fryer. Leave power on.
- 2. Insert the drain extension into the drain valve. Tighten only hand tight.
- 3. Direct the drain extension into the mobile filtering device that you want to use.
- 4. A cold fryer will not drain properly. Always filter shortening between 250°F and 350°F. The shortening in the cold zone area will remain hard if the heat is only on for a few minutes. If necessary, use the clean-out rod to carefully stir the hard shortening to an area above the cold zone where it will melt.
- 5. Use the provided crumb scoop to remove the heavy debris lying on the bottom of the tank.
- 6. Slowly open the drain valve to allow oil to flow from the fry tank to the filter pan. Then open the drain valve all the way. Please note the gas burners will automatically turn off at this point and DRAINING will appear on the digital display for solid state models and DRAINING OIL will display on computer models.
- 7. When fry tank is empty use the tank brush to remove any additional debris.
- 8. Close the drain valve. The display will change to; FILL TANK for solid state models and FILL TANK for computer models.
- 9. Fill tank with new shortening. Fill to a minimum of the MIN level but no high that halfway between MIN and MAX. Oil will expand as it is heated.
- 10. Press the Temp button on the display. The display will ask if the tank is full; TANK FULL.
- 11. Press the TEMP button on the display a second time to confirm that the oil level is correct in the fry tank. Once pressed, the gas burners will ignite and begin heating the oil to desired temperature.

DRAINING THE TANK

- 1. Turn off fryer.
- 2. Insert the drain extension into the drain valve. Tighten only hand tight.

- 3. Direct the drain spout into the container that you want to drain the shortening into.
- 4. Open the drain valve. The oil will drain into the container. When the container is full or the fryer tank is empty, close the drain valve. Repeat this step until the fryer is empty. Remove the drain extension and place it back into the provided holder.
- 5. It is recommended to now Boil Out your fry tank. Follow the Boil Out procedure. Then perform the weekly clean-out as described under CLEANING.
- 6. Once tank is completely empty, boiled out and cleaned, add new shortening. Turn on the power switch to begin heating the oil to desired temperature.

BOIL OUT PROCEDURE

Weekly or when oil is replaced:

- 1. Drain the tank as described under FILTERING THE OIL and instead of replacing the shortening with new oil fill with water
- 2. Close the drain valve and fill tank with water. Use recommended Vulcan's Boil-Out solid degreaser low foaming cleaner tablets part number 956812-1 which can be ordered from your local dealer. Follow the instructions on the side of the package.

NOTICE Do not use chlorine or sulfate/sulfide cleaners.

- 3. Solution level must be between the MIN and MAX levels on the fryer tank.
- 4. After pressing the TEMP button for the second time confirming that the boil out solution level is correct the gas burners will begin to heat the water solution. The fryer controls will be able to sense that there is a water mix solution vs. oil and will automatically set the correct temperature. There is NO need to change the set temperature from the last set operating temperature. Allow solution to simmer for about 15 to 20 minutes. Use a tank brush to clean the sides, back, front, and heat exchanger tubes.
- 5. With the drain extension tightened into the drain valve, drain and discard the cleaning solution from the tank.
- Close the drain valve and refill the tank with water. Add 1 cup (1/4 L) of vinegar to neutralize alkaline left by the cleaner. Solution level must be between the MIN and MAX level on the fryer tank. Press the TEMP button to confirm the vinegar level is correct.
- 7. Press the TEMP button again and the gas burners will heat the solution. Bring the solution to a simmer only. Allow to stand for a few minutes.

- 8. Turn OFF the power to the fryer. Drain the tank according to DRAINING THE TANK. Rinse thoroughly with clear, hot water. All traces of cleaner must be removed. Dry the tank thoroughly.
- 9. Close the drain valve and add shortening. Follow the FILLING TANK WITH SHORTENING procedure in this manual. The fryer is now ready for use.

CLEANING

A WARNING Hot oil and hot parts can cause burns. Use care when operating, cleaning, and servicing the fryer.

Daily

Clean your fryer regularly with the tank brush along with a damp cloth, and polish with a soft dry cloth. If regular cleaning is neglected, grease will be burned on and discolorations may form.

Fingerprints are sometimes a problem on highly polished surfaces of stainless steel. They can be minimized by applying a cleaner that will leave a thin oily or waxy film.

- Clean all exterior surfaces of your fryer at least once daily.
- Use a damp cloth with warm water and a mild soap or detergent.

NOTICE Do not use chlorine or sulfate/sulfide cleaners.

- Rinse thoroughly, and then polish with a soft dry cloth.
- Keep the fryer exterior clean and free of accumulated grease to prevent stubborn stains from forming. If regular cleaning is neglected, grease will be burned on and discolorations may form.
- Remove discolorations by washing with any detergent or soap and water.
- Use a self-soaping, non-metallic scouring pad for particularly stubborn discolorations.
- Always rub with the grain of the stainless steel.
- Do not use a metallic scoring pad or harsh cleaners.

KleenScreen *Plus*® Filtration System Installation and Operational Manual for "DF" and "CF" Models GRD/CF and 2XGD/CF Models





2GR45DF Shown

2XG45DF Shown

GAS KleenScreen *PLUS®* Models:

2GR45DF	ML-136424
2GR45CF	ML-136431
2GR65DF	ML-136425
2GR65CF	ML-136432
2GR85DF	ML-136426
2GR85CF	ML-136433
3GR45DF	ML-136427
3GR45CF	ML-136434
3GR65DF	ML-136428
3GR65CF	ML-136435
3GR85DF	ML-136429
3GR85CF	ML-136436
4GR45DF	ML-136430
4GR45CF	ML-136437
4GR65DF	ML-136662
4GR65CF	ML-136663
4GR85DF	ML-136665
4GR85CF	ML-136666
2XG45DF	ML-136562
2XG45CF	ML-136563
2XG65DF	ML-136638
2XG65CF	ML-136639
2XG85DF	ML-136565
2XG85CF	ML-136566

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Filtering Instructions for KleenScreen *PLUS*® Fryers

General

The KleenScreen *PLUS*® filtration system filters the oil as it is pumped back into its' respective tank(s). Only one tank can be drained and filtered at a time. Under no circumstances should both tanks be drained at the same time.

Assembly

- After unpacking, wash the filter pan, crumb basket and filter screen assembly. Make sure you remove the insert located inside the filter screen. Use dishwashing detergent and warm water, (parts are dishwasher safe). Rinse the filter pan, crumb basket and filter screen components completely and wipe all parts dry with a clean cloth.
- Pull out the filter drawer all the way leaving the filter pan opening exposed.
- Place the filter tank into the filter drawer making sure that the pins on the bottom of the filter pan line up with the holes in the filter drawer. Position the filter screen assembly into the suction tube clip in the filter pan positioning the filter screen assembly flat on the bottom of the filter pan. Place the primary crumb basket onto the left handle of the filter pan.
- Carefully line up the suction tube nozzle so that it mates with the oil receptacle block mounted on the frame of the fryer battery. Close the drawer. See Figures 1, 2 3 and 4.

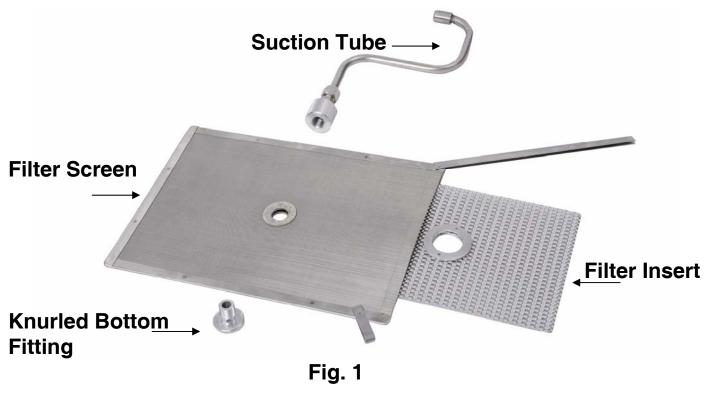
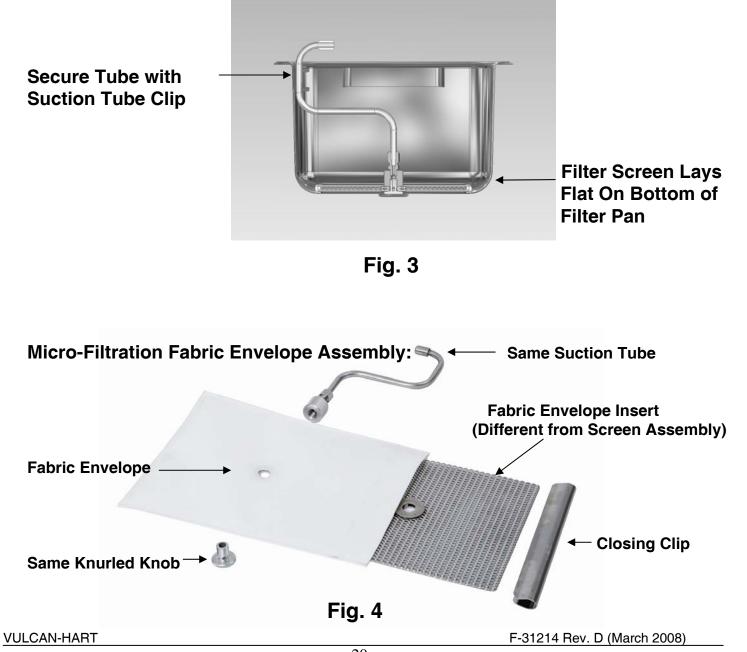




Fig. 2



⁻²⁰⁻ Download from Www.Somanuals.com. All Manuals Search And Download.

INSTRUCTIONS TO REMOVE & REPLACE KLEENSCREEN PLUS® FILTER ENVELOPE

FOR ABSOLUTE FILTRATION & MAXIMUM FLOW RATE WE RECOMMEND YOU CHANGE YOUR FILTER ENVELOPES AT EVERY OIL CHANGE (10-14 DAYS DEPENDING ON OIL USAGE).



Step 1

Discard all oil from the filter vessel, (see pages 23 or 24). When the filter pan is empty, use a spatula and scrape off all debris left on the filter envelope and in the filter pan.



Unscrew "S" Tube from filter by turning the Bottom Knurled fitting counter- clockwise.

Step 3

Step 2

Remove SST Closure Clip by lifting off one side.



Step 4

Remove SST Filter Screen Insert and wash insert with hot water and dry thoroughly. The Filter Screen Insert is dishwasher safe. Place the insert into a new KleenScreen *PLUS®* Filter envelope.

DO NOT WASH FABRIC ENVELOPE



Step 5

Place Filter Screen Insert into the fabric envelope making sure that the holes line up. Fold over the other end of the envelope and place SST Closure Clip on – hinge over and firmly press clip all the way down to secure and seal filter assembly. Making sure that the folded end is face down; screw "S" Tube Assembly onto the Filter Assembly. Tighten the Bottom Knurled fitting. When tightened, the "S" Tube assembly should be perpendicular to the long side of the filter assembly.

Step 6

Reposition the filter tube into the provided clip. Align filter tube so that the end of the "S" Tube engages the Oil Receptacle fitting each time the drawer is opened and closed.

Operation

A WARNING Hot oil and parts can cause burns. Use care when operating, cleaning and servicing the fryer.

A WARNING Spilling hot frying compound can cause severe burns. Do not move fryer without draining all frying compound from the tank.



CE Never run water or boil out solution through filter and motor / pump. Doing so will void your fryer warranty.

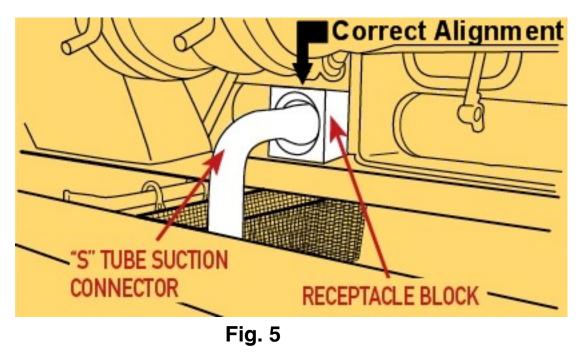
FILTERING PROCEDURE

Oil Temperature should be 300-350° F. Use the provided crumb scoop to remove and suspend crumbs on the bottom of the tank before proceeding to Step 1.

1. Do not turn off the Fryer. The power must be on throughout the entire filtering process.

NOTICE Do **NOT** heat the fryer during the filtering procedure. Permanent damage to your fry tank may occur and warranty may be voided.

- 2. Vulcan recommends adding an oil treatment media to the oil prior to filtering.
- 3. Make sure that the filter drawer is closed completely and that the suction tube and receptacle block are in the correct position. Fig. 5



VULCAN-HART

Filtering Instructions for KleenScreen PLUS® Fryers with Solid State Controls

VULCAN FRYERS SOLID STATE CONTROLS GUIDE



FILTERING in 7 Easy Steps (for revisions V3.00 or higher)



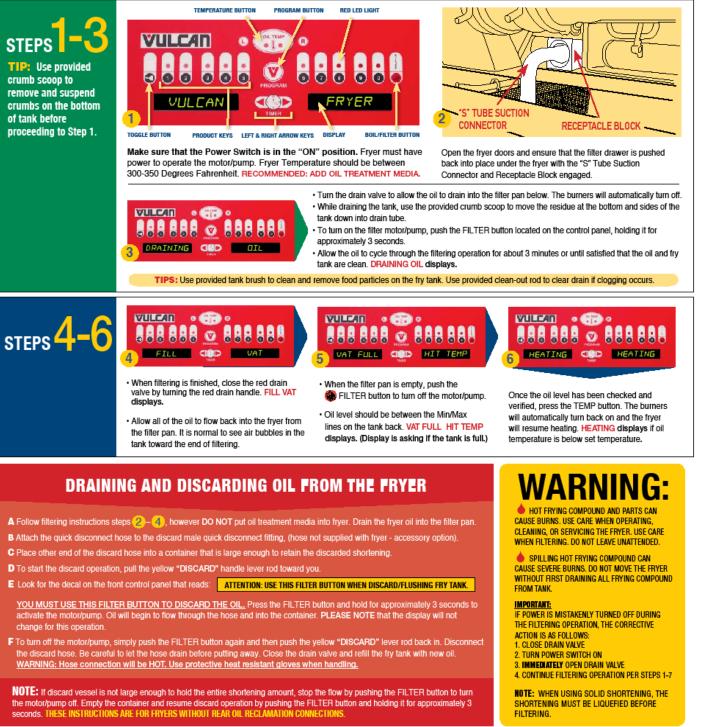
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Filtering Instructions for KleenScreen PLUS® Fryers with Computer Controls

VULCAN FRYERS



FILTERING in 6 Easy Steps (for revisions V3.00 or higher)



F-32922 (July 2007) VULCAN-HART

www.VulcanHart.com · Fryer Technical Support: 1-800-814-2028

FILTERING TIP:

Open the filtering drawer approximately 1" to allow any oil in the return line to run back into the filter pan. This will take about 30 seconds to complete. Then open the drawer completely to clean filter components.

REMOVING EXCESS DEBRIS FROM THE SCREEN FILTER:

- 1. Pull the filter drawer out and remove the crumb basket and empty any debris into the trash.
- 2. Remove the filter screen assembly. Scrape debris from the filter screen. Then remove the insert by unlatching the latch. Clean all parts thoroughly as mentioned in the Assembly section on page 19.
- 3. Scrape debris from the bottom of the filter pan and discard in the trash. Clean all parts thoroughly as mentioned in the Assembly section on page 19. Clean all parts thoroughly as mentioned in the Assembly section on page 19.
- 4. Reassemble all filter components after being dried thoroughly as in the Assembly section on page 19.

FLUSH AND DISCARD:

- 1. Follow filtering instructions 1-3, however do not put oil treatment media into the fryer. Drain the fryer oil into the filter pan.
- 2. Attach the quick disconnect hose to the discard male quick disconnect fitting, (hose not supplied with fryer Accessory Option).
- 3. Place other end of the discard hose into a container that is large enough to retain the discarded shortening.
- 4. To start the discard operation, turn Power Switch ON.
- 5. Pull the Yellow Discard Handle Lever Rod towards you and the Motor/Pump will begin to operate. NOTE: Oil will come out immediately out of the nozzle end of the hose.
- 6. Once the oil has been discarded completely and the filter pan is empty, push the Discard Lever back in. The Motor/Pump will stop and turn the Power Switch OFF.
- 7. Disconnect the discard hose. Be careful to let the hose drain before putting away. Close the drain valve and fill the fry tank with new oil.

BOIL OUT PROCEDURE:

Use the Boil Out By-Pass[™] drain extension allowing the boil out solution to exit the fry tank without using the filtering system. Do not allow water to run through the motor / pump. Drain the boil out solution into a bucket or place a hose on the end of the drain extension allowing the other end to flow into a floor drain. In Fig. 6 the arrow is pointing to the drain extension. It is threaded into the top coupling of the oil drain tube. Drain extension needs to be only hand tightened.



Fig. 6

THERMAL OVERLOAD PROTECTION BUTTON:

The motor/pump supplied with the filtering system has a thermal overload protection circuit that senses when excess heat occurs due to filtering for long periods of time or under heavy load prior to discarding debris buildup. If the thermal overload protection is tripped, wait 5 minutes and then reset the motor by pushing in the red button. The arrow in Figure 7 shows the location of the reset button; located on the front off the motor / pump facing towards you.



Fig. 7

MAINTENANCE

A WARNING Hot oil and hot parts can cause burns. Use care when operating, cleaning, and servicing the fryer.

A WARNING Spilling hot fryer compound can cause severe burns. Do not move fryer without draining all frying compound from the tank.

FLUE VENT INSPECTION

When the fryer is cool, inspect annually. Check the flue and clear any obstructions.

Service in the US and Canada

Contact you local Vulcan-Hart Service office or address on the front of this manual.

In Australia

Contact Hobart Food Equipment PTY. LTD., 16 Hilly Street Morlake, N.S.W. 2137 Australia; P.O. Box 100, Concord N.S.W. 2137; Tel: (02) 9736 1200; Fax: (02) 9736 1555. www.hobartfood.com.au

ALARMS AND ERROR MESSAGES

PILOT OUT – If the pilot is out, the digital control displays the following message:

"D" Solid State – NO PLIOT

"C" Computer – PILOT OUT

If no action is taken after 90 seconds, an alarm sounds continuously, the heat demand is disabled and any running cooking cycles are cancelled. The digital display the following message:

"D" Solid State – IGNITION LOCKOUT

"C" Computer – IGNITION LOCKOUT

The fryer must be turned off, then back on before the pilot can be re-initialized and normal functions resumed.

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OPEN PROBE – If an open probe is detected, the heat demand is disabled and any running cooking cycles are cancelled. All operator buttons are disabled. The digital control displays the following message:

"D" Solid State – OPEN PROBE

"C" Computer – PROBE OPEN

SHORTED PROBE – If a shorted probe is detected, the heat demand is disabled and any running cooking cycles are cancelled. All operator buttons are disabled. The digital control displays the following message:

"D" Solid State – SHORTED PROBE

"C" Computer – PROBE SHORT

Hi TEMPERATURE – If the temperature is greater than or equal to 415°F (212°C), the heat demand is disabled and any running cooking cycles are cancelled. All operator buttons are disabled. The control displays the following message:

"D" Solid State – HIGH TEMP "C" Computer – HIGH TMP HIGH TMP

Troubleshooting Chart:		
Problem:	Probable Cause:	
No Heat:	Power switch not turned on. Gas supply not turned on. Wire connections loose (call service) Wires connections need cleaning High Limit (call service)	
Insufficient or too much heat:	Temperature not set to desired temperature. High limit tripped (call service) Temperature probe (call service)	
Tank will not drain:	Shortening too cold. Drain pipe clogged with debris.	
Motor / pump will not pump oil:	Suction tube not seated correctly in receptacle block. Filter screen is clogged and needs cleaning. Shortening is too thick / cold. Heat oil up to min. 300° F. Discard valve lever not fully engaged either for filtering or discarding.	

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