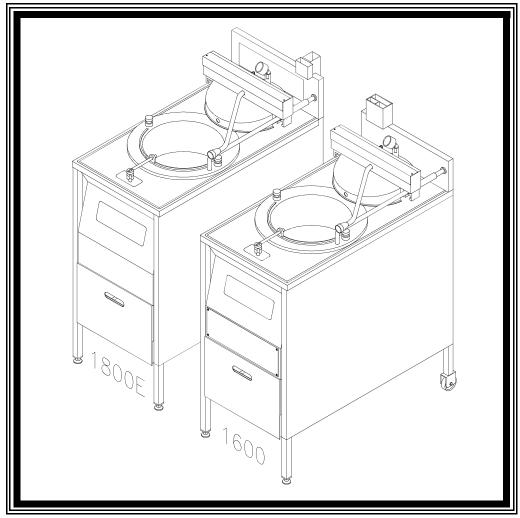


INSTALLATION MANUAL

BROASTER® 1600 AND 1800 PRESSURE FRYER

Be sure ALL installers read, understand, and have access to this manual at all times.



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Broaster Company

2855 Cranston Road, Beloit, WI 53511-3991 608/365-0193 broaster.com

Design Certified By: 1600: CSA, NSF and UL 1800: CSA (AGA & CGA), NSF and UL

FOR YOUR SAFETY

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

WARNING

Improper installation, adjustments, 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.

For the sake of safety and clarity, the following words used in this manual are defined as follows:

A DANGER

Indicates an imminently hazardous situation which, if not avoided, could result in serious injury or death.

AWARNING

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

ACAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in minor injury, property damage or both.

All adjustments and repairs shall be made by an authorized Broaster Company representative.

If there is a power failure, turn cook/filter switch OFF. On the Model 2400GH, also slide switch on gas valve OFF. DO NOT attempt to operate unit during a power failure.

Failure to read and understand this manual completely could result in serious injury or death. Be sure ALL operators read, understand and have access to this manual at all times.

Rags or paper containing cooking oil can catch fire if exposed to heat. Laundering will not remove the oil. Dispose of all oil-soiled papers and rags in a trash container that is in a ventilated area away from all cooking equipment or other heat sources such as direct sunlight.

If at any time the POWER ON light does not turn off when the cook/filter switch is moved to the OFF position, disconnect the power to the fryer and contact your local Broaster Company representative for service immediately.

DO NOT operate unit without filter pan and filter pan cover in its proper position. Filter pan cover must be wiped clean after each filtering cycle.

Make sure Pressure Relief Valve and Pressure Gauge ports on bottom of cover are clear of any oil or grease buildup.

1600 Mechanical Controls:

If at any time the unit fails to operate properly when the cook/filter switch is moved to the cook position, contact your local Broaster Company representative for service immediately.

cont'd on next page

1600/1800E Solid State Controls:

If at any time the POWER ON light does not turn off when the cook/filter switch is moved to the OFF position, disconnect power to the fryer and contact your local Broaster Company representative for service immediately.

1800GH:

Post, in prominent locations, instructions to be followed in the event that the user smells gas. This information can be obtained from your local gas supplier.

Make sure a restraining device is used that complies with the Standard for Commercial Gas Ranges, ANSI Z83.11/CSA 1.8 to guard against transmission of strain to the gas connectors.

Failure to restrain the fryer could allow it to move, causing hot shortening to spill out, or a possible break in the gas line causing an explosive condition.

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1 - PRE-INSTALLATION

LOCATION

For convenience and speed, location of the unit should be given careful consideration. If possible, locate the unit so the flow of cooked product is in a straight line from storage, in and out of the unit and to the customer. Landing tables should be provided on at least one side of the unit.

- To avoid splashing of hot liquid, unit must be restrained to prevent tipping.
 This can be done by installing the unit in a battery of appliances, in an alcove or with adequate ties
- Provision must be made to eliminate movement of the unit which might cause strain on electrical and gas connections.
- DO NOT install unit where traffic areas are on either side or in back of unit.

CLEARANCE

USA & EU:

Gas units are to be installed only in non-combustible locations. Minimum clearances for non-combustible construction is 0 inches from sides and 6 inches from back.

CANADA:

Gas units are certified for installation on a combustible floor. Minimum clearances for combustible construction is 1 inch from sides and 6 inches from back.

LEVELING

Adjust front feet to level entire unit. Add additional blocking if necessary on a sloping floor.

RECOMMENDED VENTILATION REQUIREMENTS

Exhaust hood should comply with ANSI/NFPA #96 or national, state and local codes. All units must be under an adequate power exhaust hood for ventilation of cooking vapors and products of combustion. Precautions should be taken in the design of the exhaust hood to avoid interference with operation of the unit. Consult a local ventilation company for fire suppression, design and installation of a hood.

▲WARNING

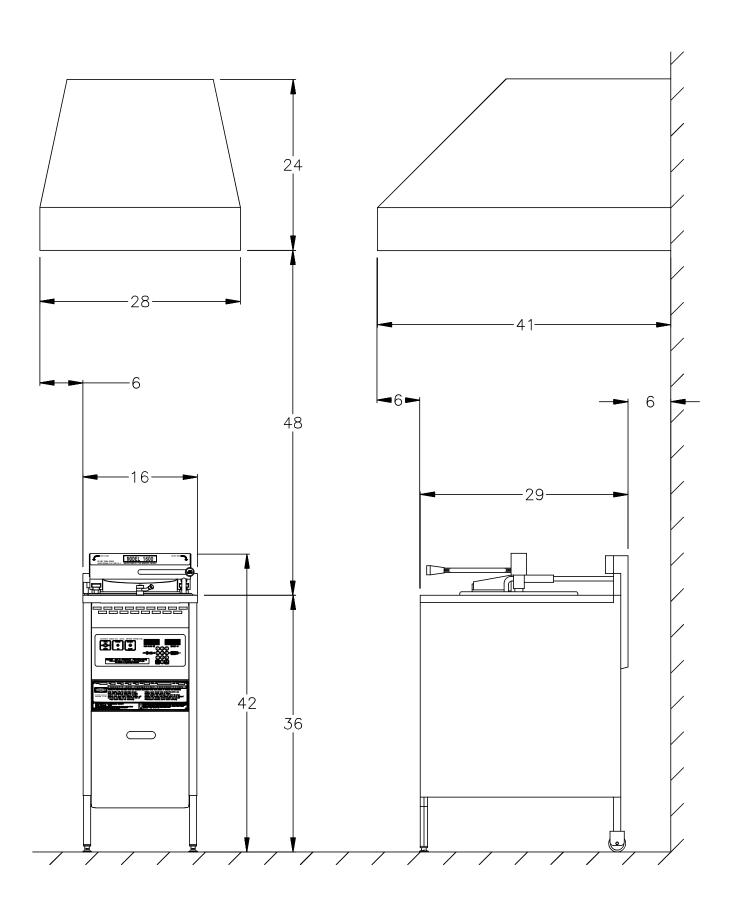
DO NOT extend the exhaust stack or exhaust

flue of any unit. Doing so may cause a negative back draft causing malfunction and interference with burner operation on the 1800GH and improper exhausting of cooking vapors on all units.

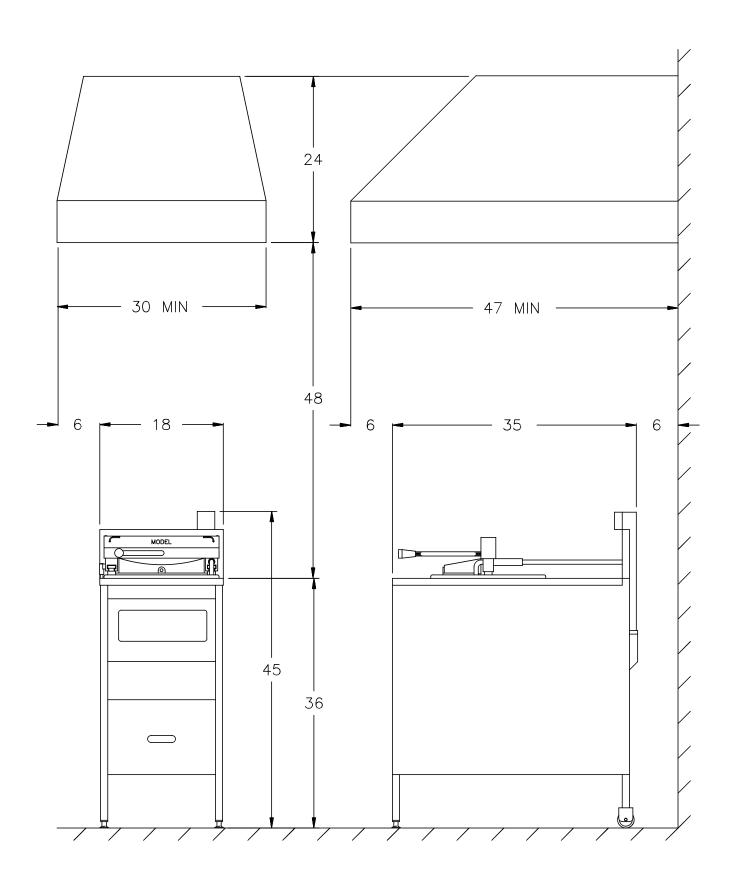
General Requirements:

- 1. Exhaust hood must conform to applicable national, state and local codes.
- 2. It is recommended that requirements of the National Fire Protection Association (NFPA), Standard No. 96 be followed for the design, installation and use of exhaust system components. This includes hoods, grease removal devices, exhaust ducts, dampers, air moving devices, auxiliary equipment and fire extinguishing equipment for the exhaust system and the cooking equipment used therewith in commercial, industrial, institutional and similar cooking applications.
- 3. Hood Size: The overhead canopy type hood should be sized to completely cover the equipment it is designed to ventilate plus an overhang of at least 6 inches on all sides of equipment not immediately adjacent to walls or other construction extending above the cooking surface. Noncanopy, prefabricated "backshelf" type hoods should be sized according to the manufacturers specifications.
- 4. Exhaust Air Volume (minimum):
 Canopy hood open on all four sides:
 1800 cu. ft./minute. Canopy hood
 open on three sides or less: 1200 cu.
 ft./minute.
- Exhaust Air Velocity: All exhaust ducts should be sized to provide an air velocity in the ducts of at least 1500 ft./minute.

1600 Hood Dimensions In Inches:

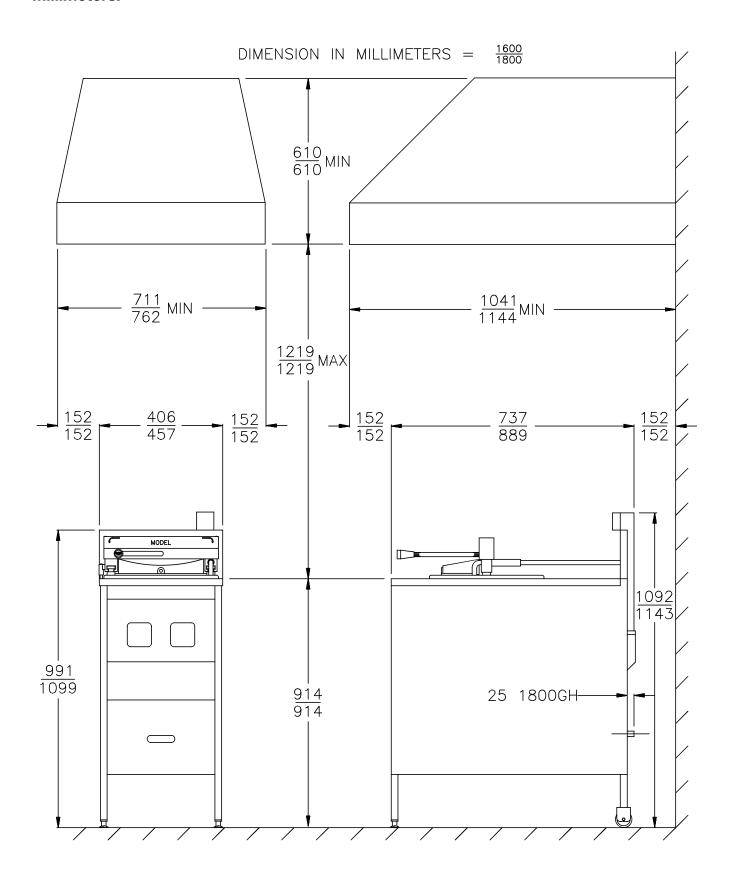


1-3



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1600/1800 Hood Dimension In Millimeters:



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2 - FILTER PAN ASSEMBLY

HARDWARE LIST

1600:

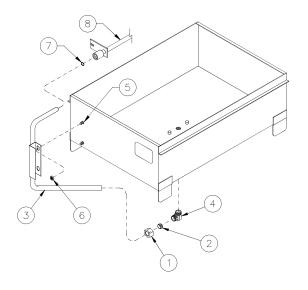
1 - Compression Nut	#02536	(1)
2 - Brass Ferrule	#02537	(1)
3 - Riser Line	#11314	(1)
6 - Keps Nut	#00522	(2)
7 - O-ring	#09883	(3)
9 - Nipple	#08696	(1)

1800:

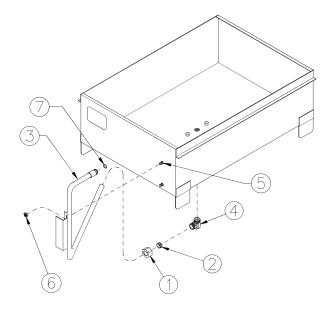
1 - Compression Nut	#02536	(1)
2 - Brass Ferrule	#02537	(1)
3 - Riser Line	#11308	(1)
6 - Keps Nut	#00522	(2)
7 - O-ring	#09883	(3)

ASSEMBLY

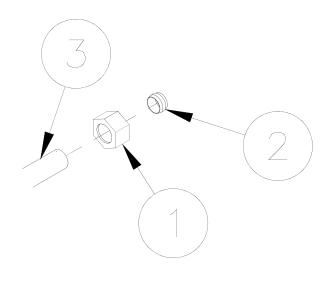
1600:



1800:



1. From bag of hardware, install compression nut (1) then ferrule (2) onto riser line (3).



- 2. Install riser line (3) onto pan. First install line into elbow (4) on bottom center of pan while handle fits over studs (5) on front of pan.
- 3. Install keps nuts (6) onto studs (5) but do not tighten.
- 4. Tighten nut onto elbow (4).

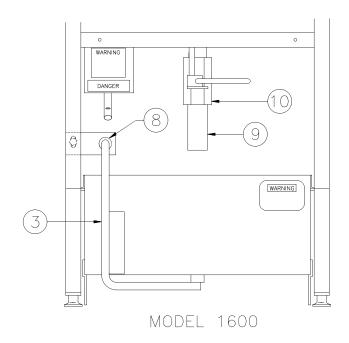
Elbow may have to be turned with a wrench if nut will not start onto elbow.

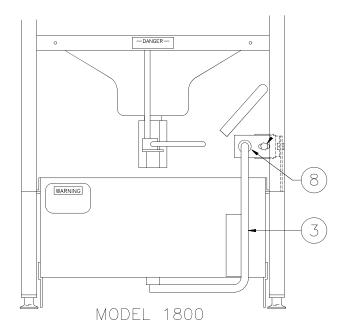
5. .Lubricate O-ring (7) with cooking oil.

1600: Install O-ring (7) into inner groove in suction line (6). Screw nipple (9) into drain valve (10).

1800: Install O-ring (7) into groove on riser line (3).

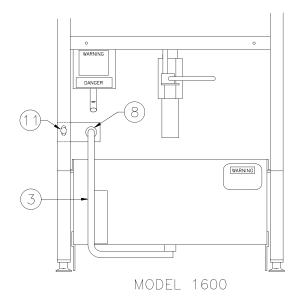
- 6. Install filter pan under unit and align riser line (3) with suction line (8).
- 7. Tighten keps nuts (6) mounting riser line (3) to filter pan.
- 8. See Operation Manual for additional assembly.





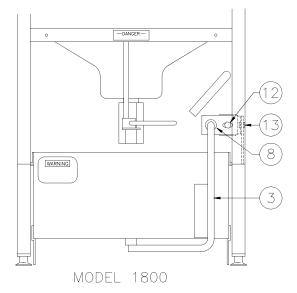
ADDITIONAL ADJUSTMENTS IF NEEDED

1600:



- 1. Loosen nut and bolt (11).
- 2. Push pan under unit. By hand, move suction line (8) until riser line (3) is fully inserted into suction line.
- 3. Tighten all nuts and bolts.

1800:



1. Remove side panel.

- 2. Loosen bolt (12) and nut and bolt (13).
- 3. Push pan under unit. By hand, move suction line (8) until riser line (3) is fully inserted into suction line.
- 4. Tighten all nuts and bolts.
- 5. Replace side panel

3 - 1600/1800E INSTALLATION

ELECTRICAL CHARACTERISTICS

These models are available for either 208, 240 or 480 applied voltage, 60Hz, 3 phase electrical connection in the USA and several voltages for export applications.

Be sure to check the wiring diagram located inside the front panel. It shows electrical circuits and connections. See Access For Hook-Up under ELECTRICAL HOOK-UP.

- All electrical work must conform with the requirements of national, state and local electrical codes.
- When installing or servicing the unit, always check the dataplate located on the front panel (1600) or toward the rear of the counter top (1800) to make certain proper parts are used and the correct service rendered. DO NOT apply a voltage to any unit other than that shown on the dataplate. If in doubt, consult your local power company.

ELECTRICAL CONNECTIONS

- A remote circuit breaker or fuse should be installed in main power supply located in a path of exit and clearly identified.
- When installed, the unit must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or for Canada, the Canadian Electrical Code, CSA C22.2, as applicable.
- Use copper wire only for connections.
- If power run is over 50 feet, use next larger size wire.

1600 Suggested Wiring Capacity Table:

Phase	Volts	Amps	Wire	Breaker or Fuse
1	208	29	#8	40
1	220	30.5	#8	40
1	230	26	#8	40
1	240	27	#8	40
3	208	17	#10	25
3	240	16	#10	20
3	220/380	10.2	#10	15
3	230/400	8.7	#10	15
3	240/415	9.1	#10	15

1800E Suggested Wiring Capacity Table:

Phase	Volts	Amps	Wire	Breaker or Fuse
1	208	48	#8	60
1	220	50	#8	60
1	230	43	#8	60
1	240	45	#8	60
3	208	28	#8	40
3	240	26	#8	40
3	220/380	16.8	#10	20
3	230/400	14.3	#10	20
3	240/415	15	#10	20

ELECTRICAL HOOK-UP

▲WARNING

Disconnect main power supply and turn unit OFF

before installing power supply to the unit. HIGH VOLTAGE may be encountered. Only persons trained and equipped for checking high voltage shall perform electrical connections.

Access For Hook-Up:

- 1. Disconnect main power supply.
- 2. Remove condensate pan and one screw (1600) or two screws (1800) from bottom of front panel. Pull out and down on bottom to remove.

PHASE WIRING DOMESTIC:

The phase wiring diagram is located inside the front panel. See Access For Hook-Up under ELECTRICAL HOOK-UP. Electric units are shipped from the factory wired for 3 phase. In this case, applied voltage must be connected to L1, L2 and L3 of contactor C1 and a ground wire to the GND connector.

Change to 1ph operation:

To change to single phase operation, remove both heater wires from the center connector of contactor C2. Install wire #3 with wires #1 and #5 and install wire #2 with wires #4 and #6. In this case, applied voltage must be connected to L1 and L3 of contactor C1 and a ground wire to the GND connector.

Changed to 3ph Operation:

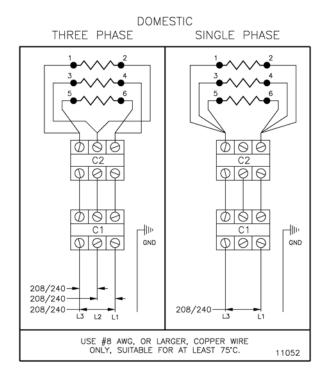
To change to three phase operation, remove heater wires #3 from L3 and heater wire #2 from L1 on contactor C2. Insert these wire into the center connector of contactor C2 and tighten.



Check all contactor screw connections to be

sure they are fully tightened for proper electrical continuity.

Domestic phase wiring diagram



PHASE WIRING EXPORT AND CE:

The phase wiring diagram is located inside the front panel. See Access For Hook-Up under ELECTRICAL HOOK-UP. Electric units are shipped from the factory wired for 3 phase. In this case, applied voltage must be connected to L1, L2 and L3 of contactor C1 and a ground wire to the GND connector. There is also a neutral block that the input neutral wire is connected.

Change to 1ph operation:

To change to single phase operation, remove the heater wires from the neutral block and connect to contactor C2 as shown in the following wire connection diagram.

In this case, applied voltage must be connected to L1 and L3 of contactor C1 and a ground wire to the GND connector.

Move the #2 black wire from the neutral block to the left bottom lug or contactor C1.

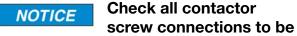
Also move the yellow wire from the neutral block and connect it to the left top lug of contactor C1.

Change to 3ph operation:

To change to 3ph operation, remove heaterwires #2,4 & 6 and connect them to the neutral block.

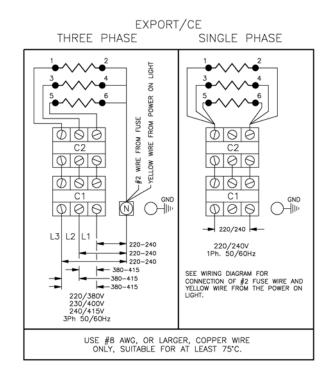
Move heater wire #3 to the center lug of contactor C2 and heater wire #5 to the top right lug of Contactor C2.

Move the #2 fuse wire from the bottom lug of contactor C1 to the neutral block and move the yellow wire from the top lug of contactor C1 to the neutral block.

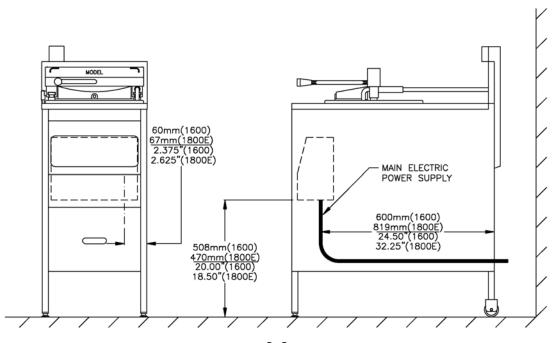


sure they are fully tightened for proper electrical continuity.

Export/CE phase wiring diagram



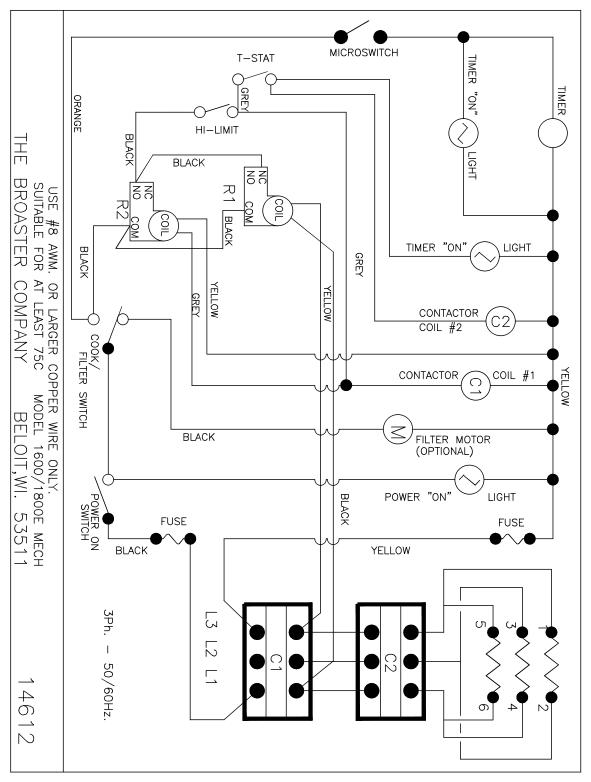
Unit Dimensions For Electrical Hook-Up:



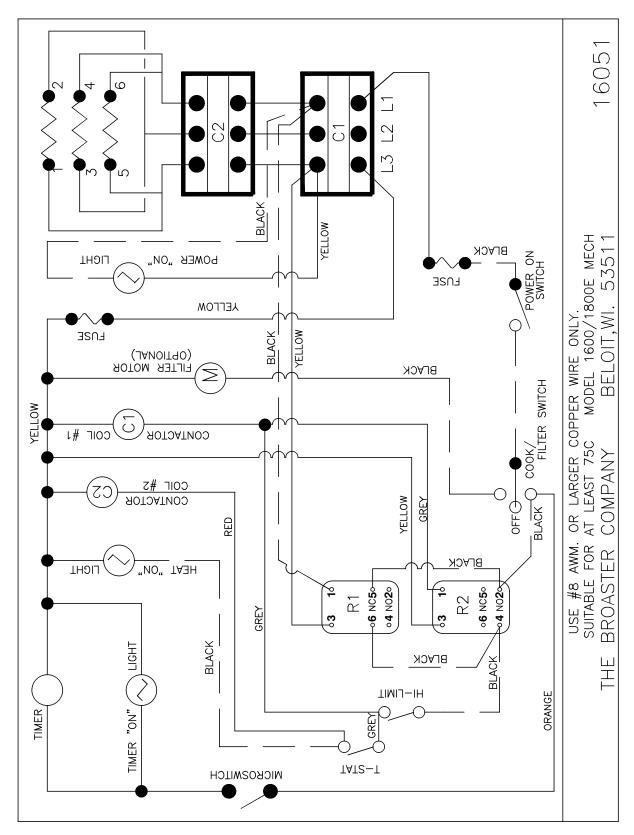
WIRING DIAGRAMS

Wiring diagrams are located inside front panel. See Access For Hook-up under ELECTRICAL HOOK-UP.

1600 Mechanical 208 or 240VAC:

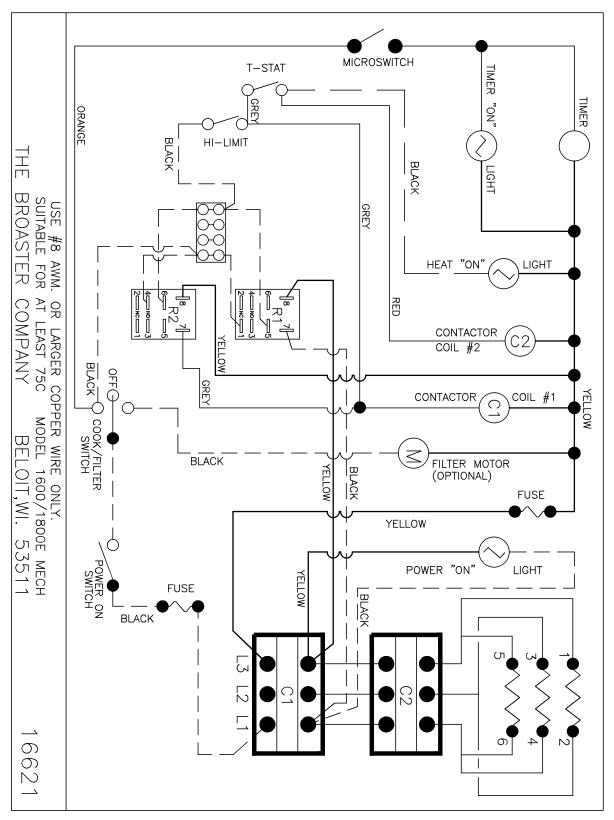


FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

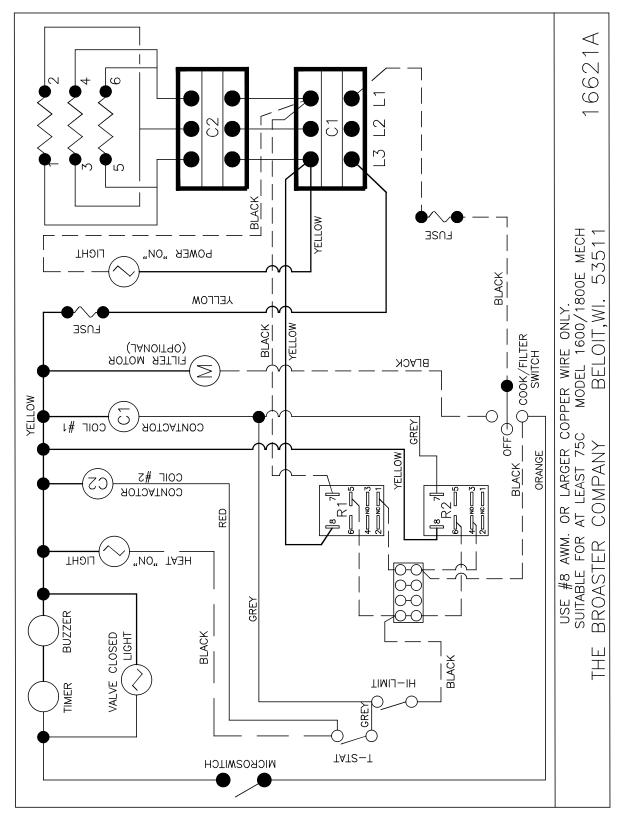


FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

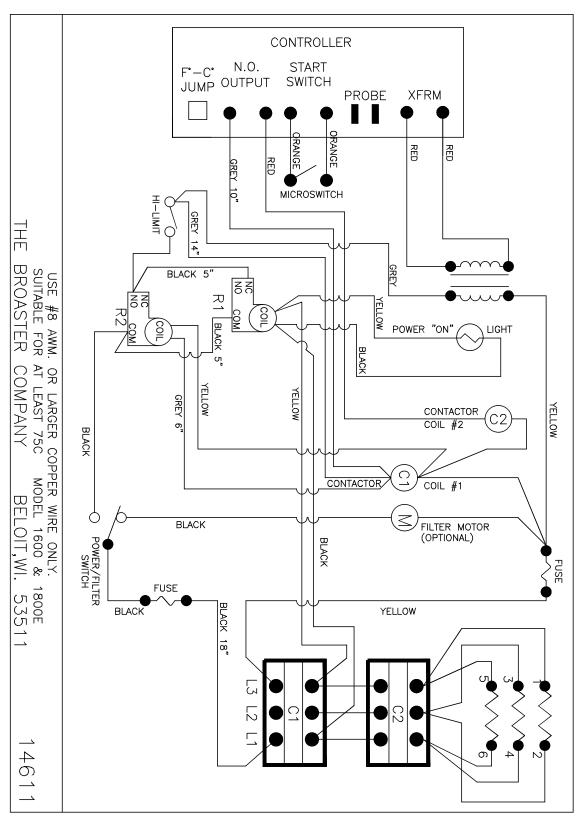
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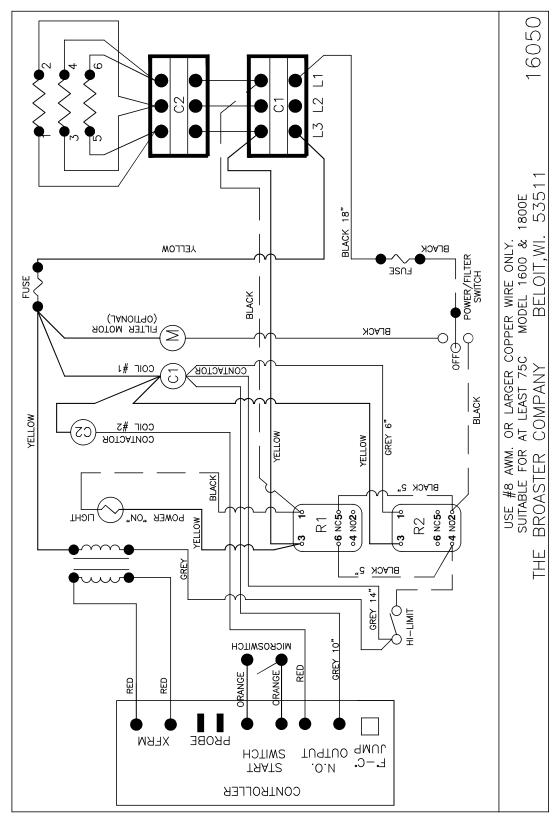
FOR POWER INPUT CONNECTIONS SEE PAGE 3-2



FOR POWER INPUT CONNECTIONS SEE PAGE 3-2



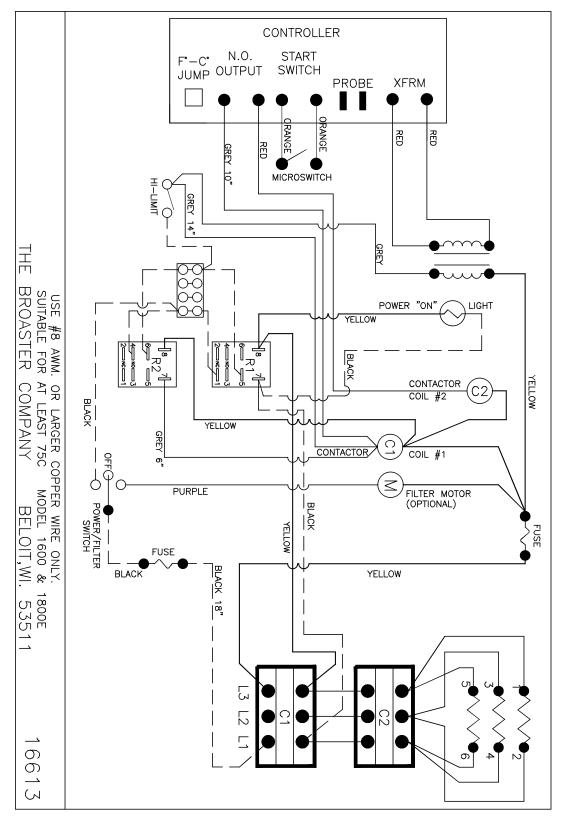
FOR POWER INPUT CONNECTIONS
SEE PAGE 3-2



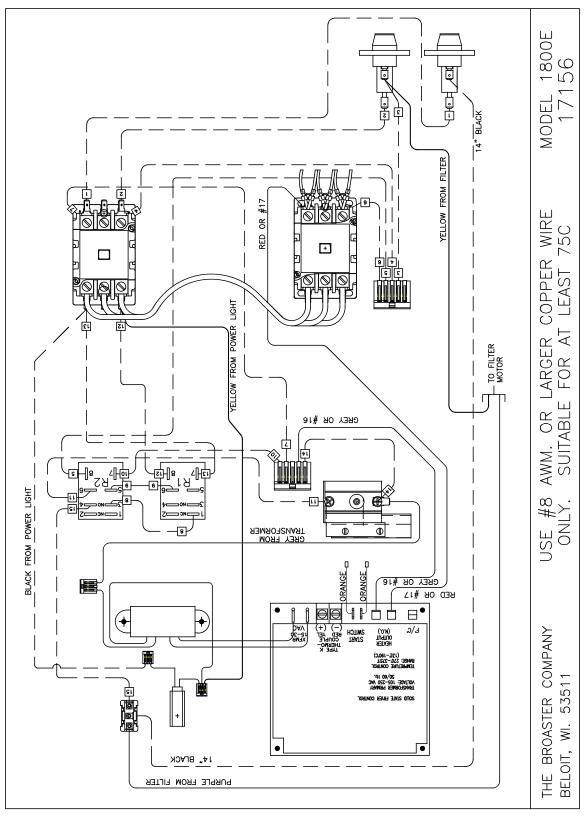
FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

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1600/1800E Solid State 208 or 240VAC: Effective SE6A700013 SE8A700011

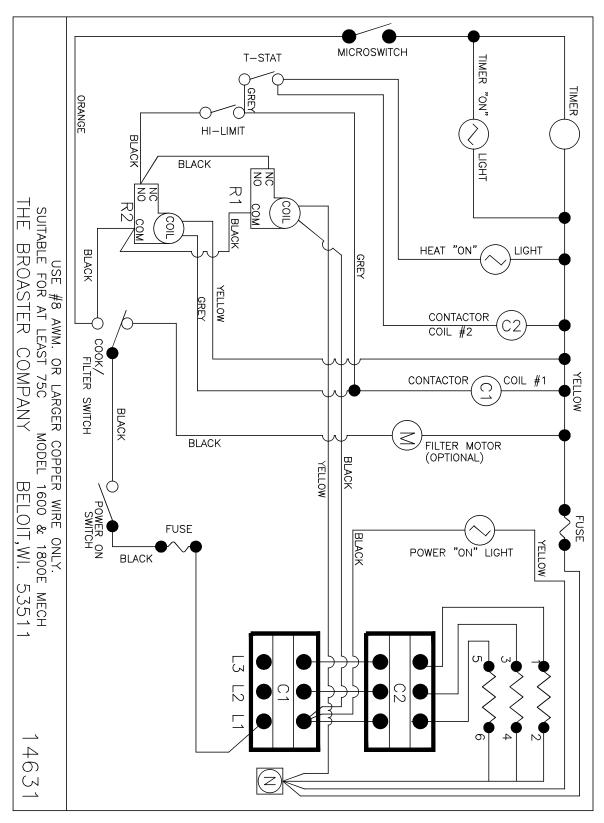


FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

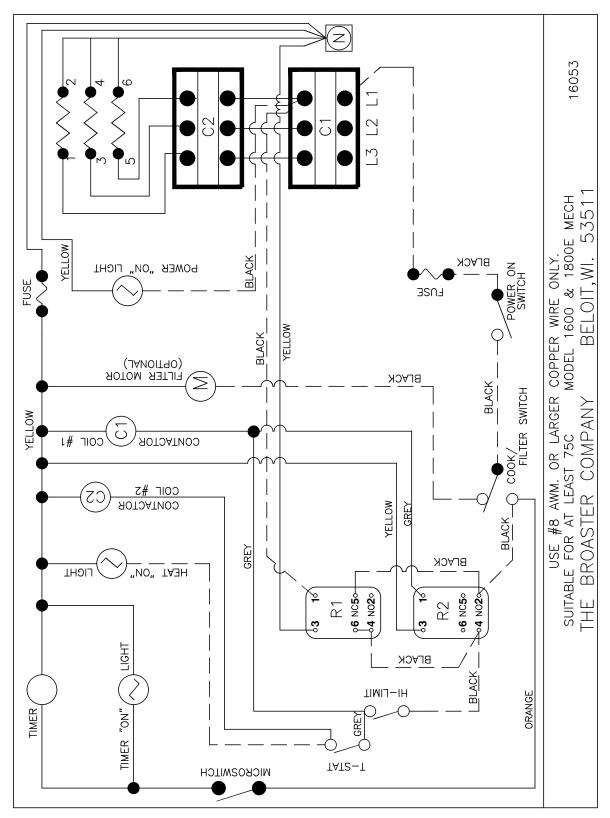


FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

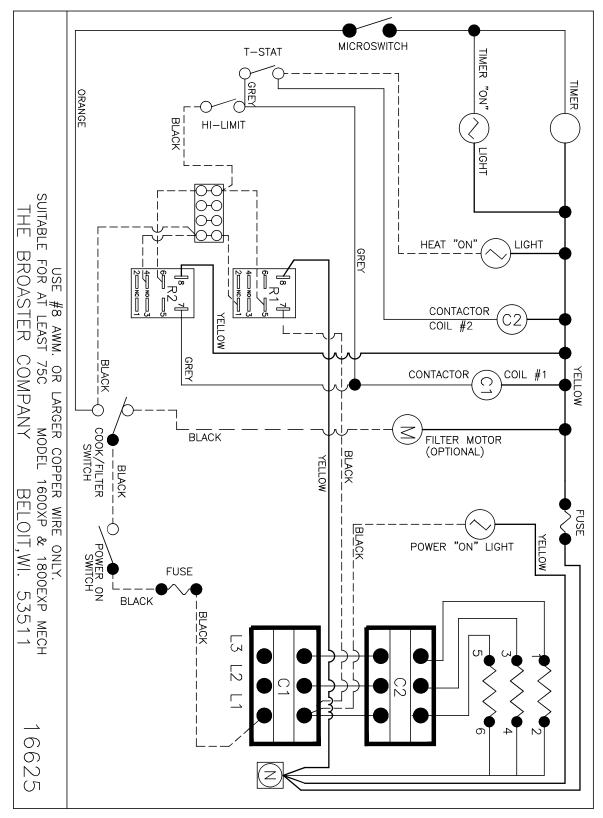
EXPORT: 1600XP/1800EXP Mechanical:



FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

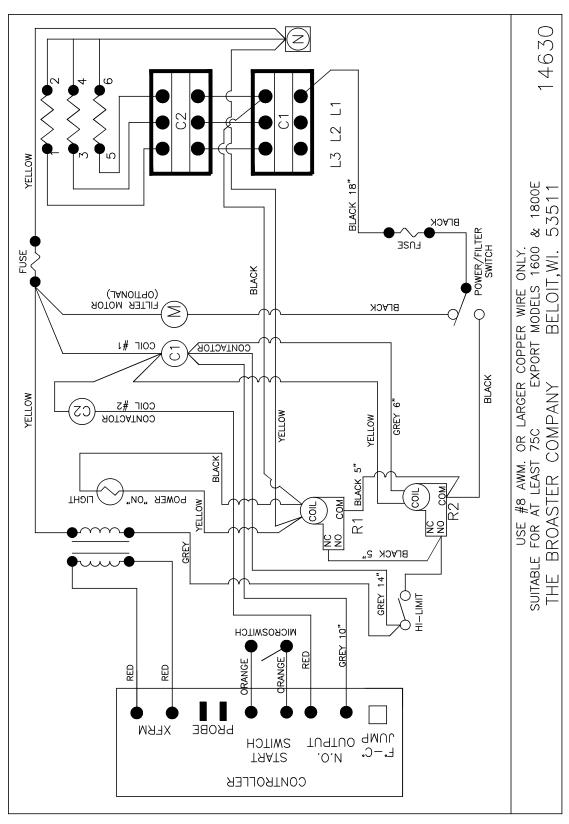


FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

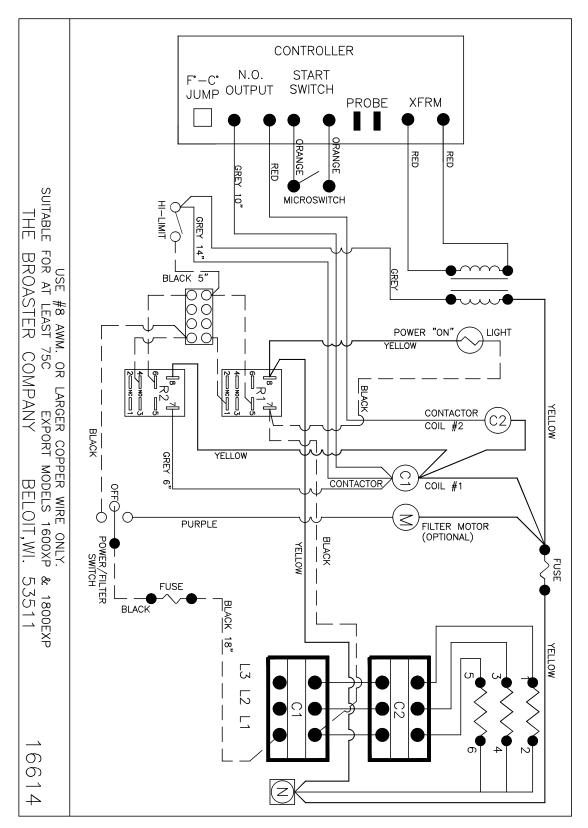


FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

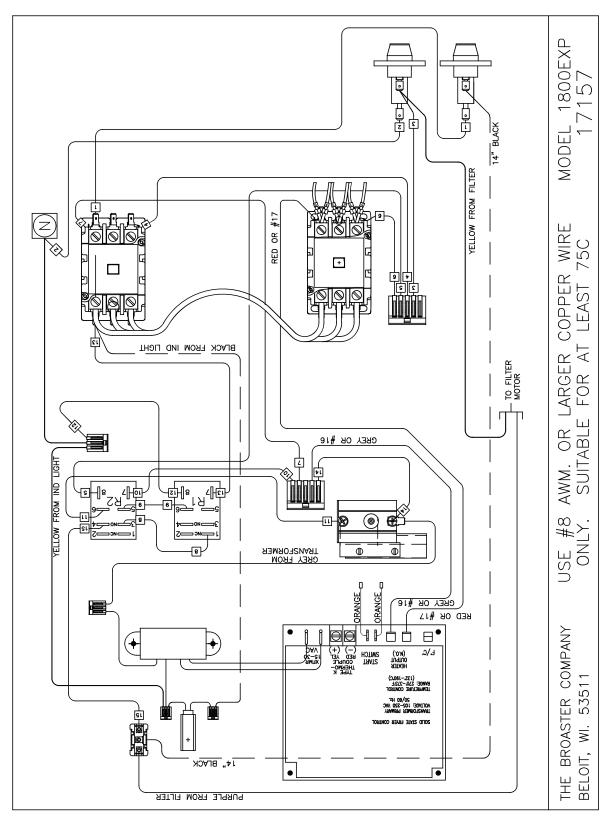
EXPORT: 1600XP/1800EXP Solid State:



FOR POWER INPUT CONNECTIONS
SEE PAGE 3-2

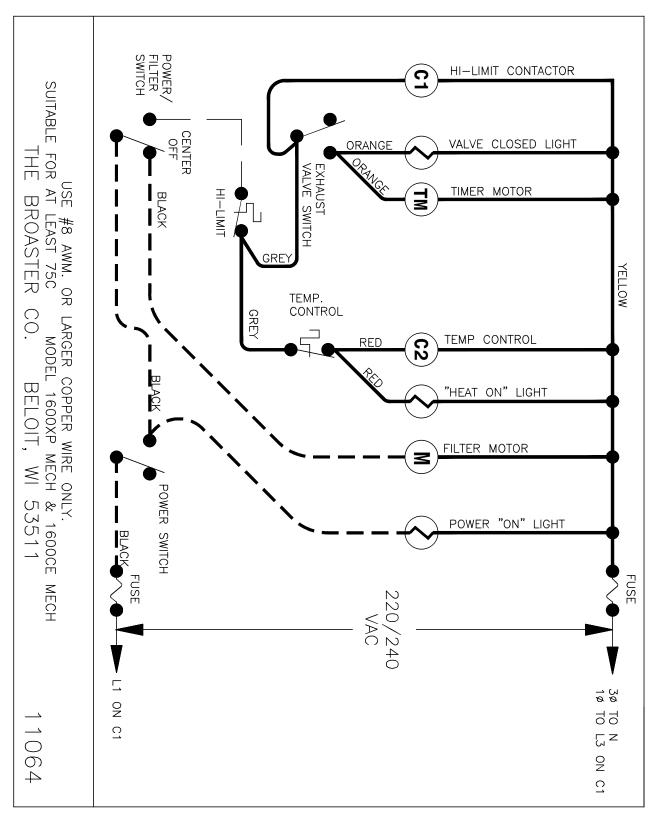


FOR POWER INPUT CONNECTIONS SEE PAGE 3-2



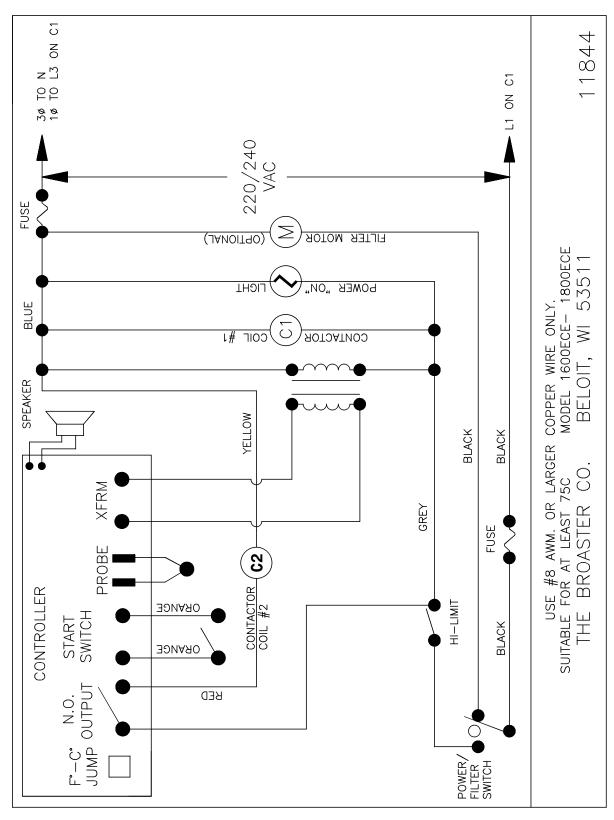
FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

EU: 1600CE MECHANICAL:



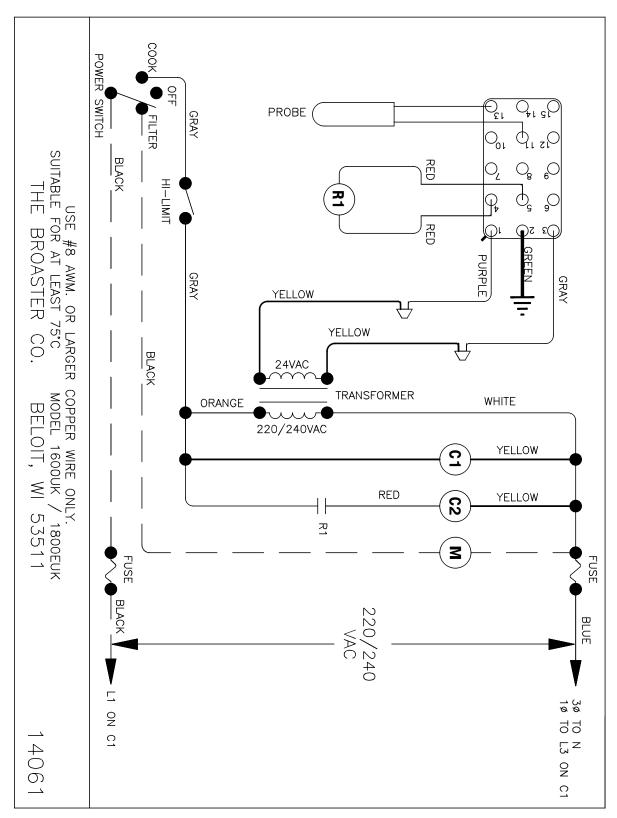
FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

EU: 1600CE/1800ECE SOLID STATE:

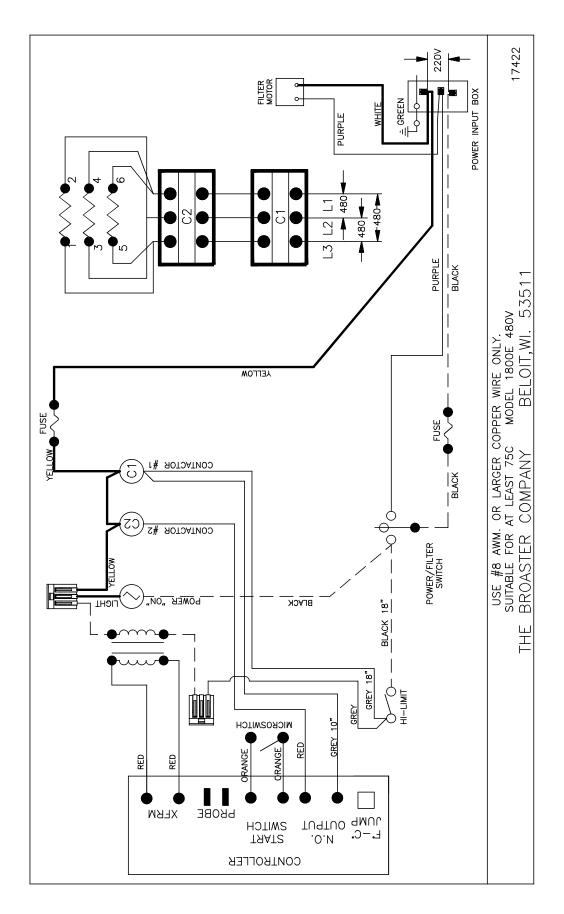


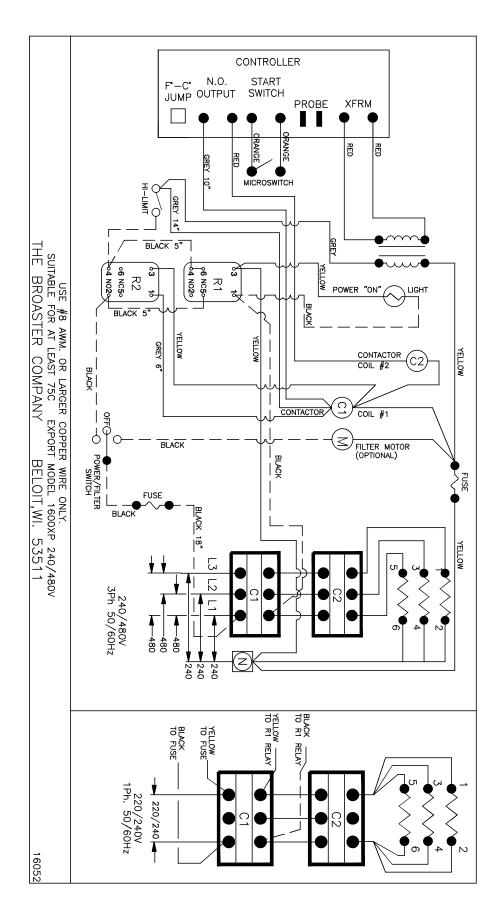
FOR POWER INPUT CONNECTIONS SEE PAGE 3-2

EU: 1600UK/1800EUK SOLID STATE:

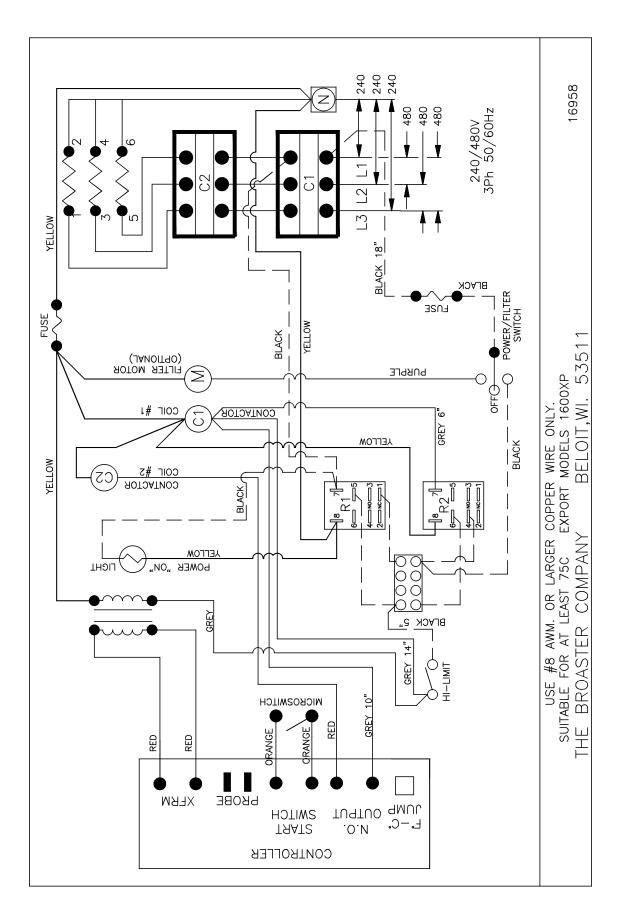


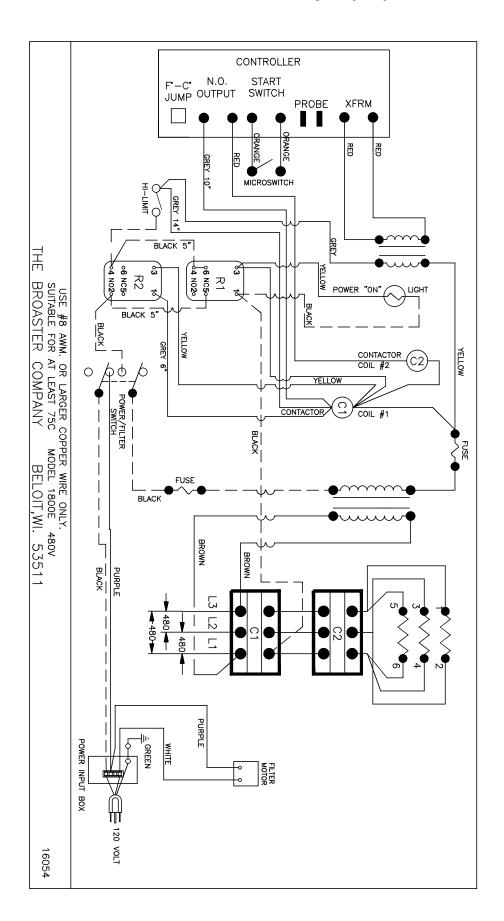
FOR POWER INPUT CONNECTIONS SEE PAGE 3-2



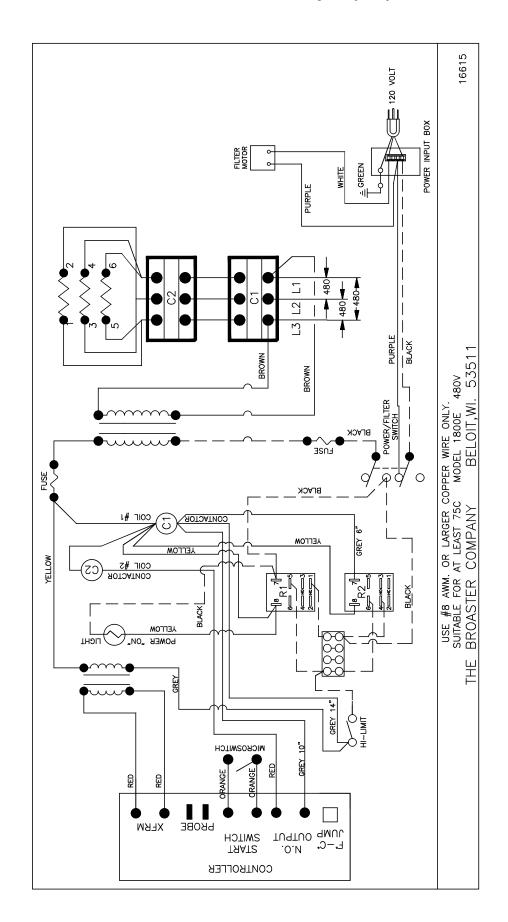


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4 - 1800GH INSTALLATION

GENERAL REQUIREMENTS

Failure to restrain the fryer could allow it to move, causing hot shortening to spill out, or a possible break in the gas line causing an explosive condition.

> Install an ANSI Z83.11/CSA 1.8 compliant restraining device (such as Broaster Company part number 17708) per manufacturers instructions.

Use appliance connectors and quick-disconnectors that are in compliance with the applicable ANSI and CSA standards.

- > Attach an appliance connector to the fryer according to the instructions provided by the connector manufacturer.
- > When installing or servicing the unit, always check the dataplates, one located toward the rear of the countertop and one located on the front panel. This will make certain proper parts are used and the correct service rendered.
- > **DO NOT** apply a voltage to this unit other than that shown on the dataplate. If in doubt, consult your local power company.
- > A remote circuit breaker or fuse should be installed in main power supply located in a path of exit and clearly identified.
- > A gas shutoff valve, installed in gas supply line, should be located in a path of exit and clearly identified.
- > Keep burner area free and clear of all combustible materials.

- > **DO NOT** obstruct exhaust flue or open area around bottom of unit at the front, back and sides which would restrict the flow of combustion and ventilation air.
- > Consult a local ventilation company to ensure an adequate air supply for all gas fired equipment.
- > <u>EU</u>: Installation must conform with national & local codes of the country in which installation is made. Gas fryers manufactured for use in the EU are not convertible from one gas to another.
- > <u>US & CANADA</u>: Installation must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1, Natural Gas Installation Code, CAN/CGA-B149.1, or the Propane Installation code, CAN/CGA-B149.2, as applicable.
- > The unit and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2psi(3.45kPa).
- >The unit must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2psi(3.45kPa).

ELECTRICAL CHARACTERISTICS

The Model 1800GH is available for 120VAC applied voltage, 15 amp, 60Hz, 1 phase electrical connection in the USA and 120VAC or 220VAC applied voltage, 15 amp, 50/60Hz, 1 phase electrical connection for export applications.

When installed, the unit must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.2, as applicable.

ELECTRICAL CONNECTIONS

> Applied voltage should match data plate listed voltage.

Electrical Grounding Instructions - The Model 1800GH is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. DO NOT cut or remove grounding prong

from this plug.

GAS CHARACTERISTICS

All gas units are tested using local gas supply. Your unit may or may not operate correctly on your type of gas. Therefore, the unit should be checked and corrected if necessary. See service manual.

AWARNINGDO NOT attempt to use any other gas than that specified on data plate located on the front panel.

BTU/HR Ratings:

US & CANADA

Natural Gas: 65,000 Propane: 65,000

<u>EU</u>

G20: 21.1 kW net G31: 21.1 kW net

Gas Pressure and Orifices:

If adjustment of the regulator does not deliver the correct BTU per hour or if another type of gas is to be used, contact your local gas supply company for correct gas pressure and orifice sizing.

Maximum gas supply line pressure: Natural (G20) Gas: 7"wc (17.4 mbar) Propane (G31) Gas: 14"wc (34.9 mbar)

High pressure at test fitting:

Natural (G20) Gas: 3.5"wc (8.7 mbar) Propane (G31) Gas: 10.0"wc (24.9 mbar)

Main burner orifice size:

Natural (G20) Gas: #24 (3.9mm) Propane (G31) Gas: #41 (2.4mm)

Pilot burner orifice size:

Natural (G21) Gas: .018 (.46mm) Propane (G31) Gas: .011 (.27mm)

Gas Conversion:

US & CANADA

Contact your local Broaster Company representative for converting from one type of gas to another.

EU

Units manufactured for use in the EU are not convertible from one type of gas to another.

High Altitude:

For operation at elevations above 2,000 feet above sea level, gas input must be reduced 4% for each 1,000 feet. Contact your local Broaster Company representative for correct orifice sizing.

GAS PIPING

The Model 1800GH is equipped with a 1/2" pipe for gas connection. Shipped with each unit, for 3/4" gas connection, is one each of the following:

P/N 00743 - Bushing Hex Reducer 3/4 to 1/2

P/N 01319 - Coupling 3/4 Pipe

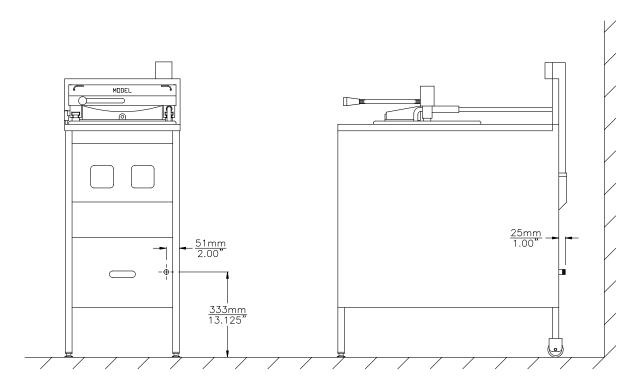
Use only black steel pipe and malleable fittings for gas connections.

Pressure loss in the piping must not exceed 0.3" W.C.

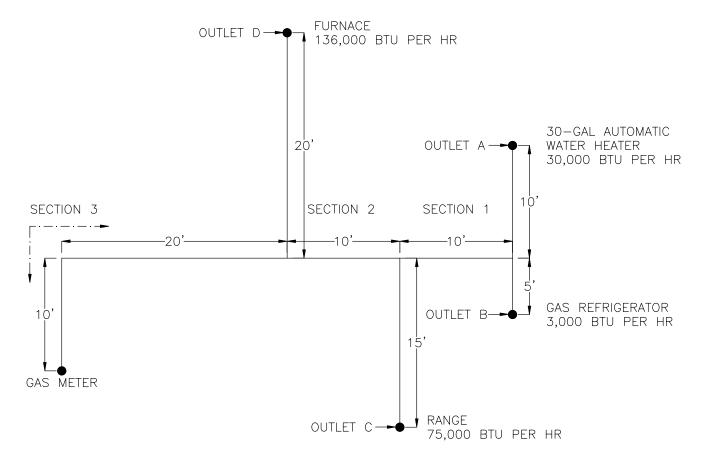
Be sure gas supply piping is of the proper size for the BTU input. Take into consideration all other gas appliances which must operate from the same gas supply. Be sure piping will not interfere with drain pails or valves.

A compound resistant to the action of liquified petroleum gas should be used on the threads of gas supply piping joints. Check all connections and pipes with a soap and water solution. Bubbles indicate a gas leak. **DO NOT** use an open flame to check for gas leaks.

Unit Dimensions For Gas Hook-Up:



Example of Piping System Design:



Determine the required pipe size of each section and outlet of the piping system shown in Solution, with a designated pressure drop of 0.50 inch water column. Gas to be used has 0.65 specific gravity and a heating value of 1,000 BTU per cubic foot.

Solution:

C = Consumption (rating plate input or pipe capacity if necessary). Pipe capacity table at top of next page.

BTU = BTU per cubic foot for the gas type.

CFH = Cubic Feet/Hour

Maximum gas demand for outlet A: C/BTU = 30,000/1,000 = 30 CFH

Maximum gas demand for outlet B: C/BTU = 3,000/1,000 = 3 CFH

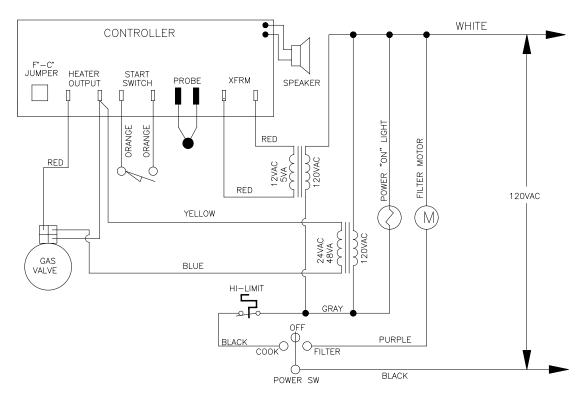
Maximum gas demand for outlet C: C/BTU = 75,000/1,000 = 75 CFH

Maximum gas demand for outlet D: C/BTU = 136,000/1,000 = 136 CFH Maximum capacity of pipe in cubic feet of gas per hour (based upon a pressure drop of 0.3 inch water column and 0.6 specific gravity gas):

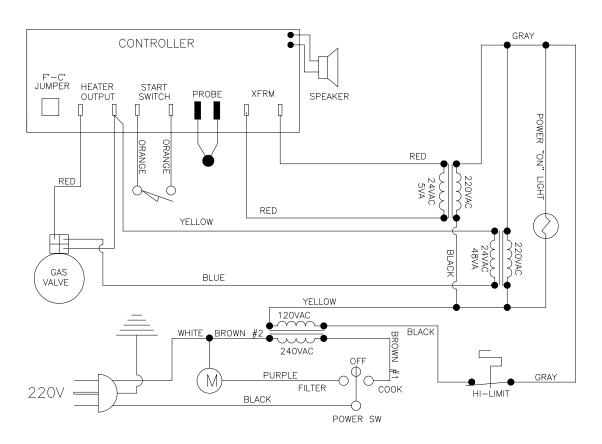
Length	· ·								
in Feet	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
10	132	278	520	1,050	1,600	3,050	4,800	8,500	17,500
20	92	190	350	730	1,100	2,100	3,300	5,900	12,000
30	73	152	285	590	890	1,650	2,700	4,700	9,700
40	63	130	245	500	60	1,450	2,300	4,100	8,300
50	56	115	215	440	670	1,270	2,000	3,600	7,400
60	50	105	195	400	610	1,150	1,850	3,250	6,800
70	46	96	180	370	560	1,050	1,700	3,000	6,200
80	43	90	170	350	530	990	1,600	2,800	5,800
90	40	84	160	320	490	930	1,500	2,600	5,400
100	38	79	150	305	460	870	1,400	2,500	5,100
125	34	72	130	275	410	780	1,250	2,200	4,500
150	31	64	120	250	380	710	1,130	2,000	4,100
175	28	59	110	225	350	650	1,050	1,850	3,800
200	26	55	100	210	320	610	980	1,700	3,500

WIRING DIAGRAMS:

MODEL 1800GH DOMESTIC

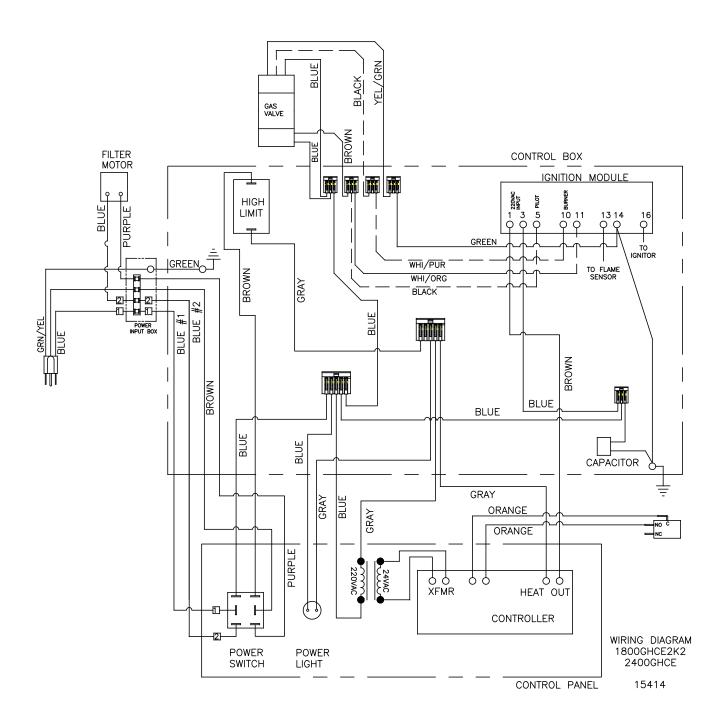


MODEL 1800GH EXPORT

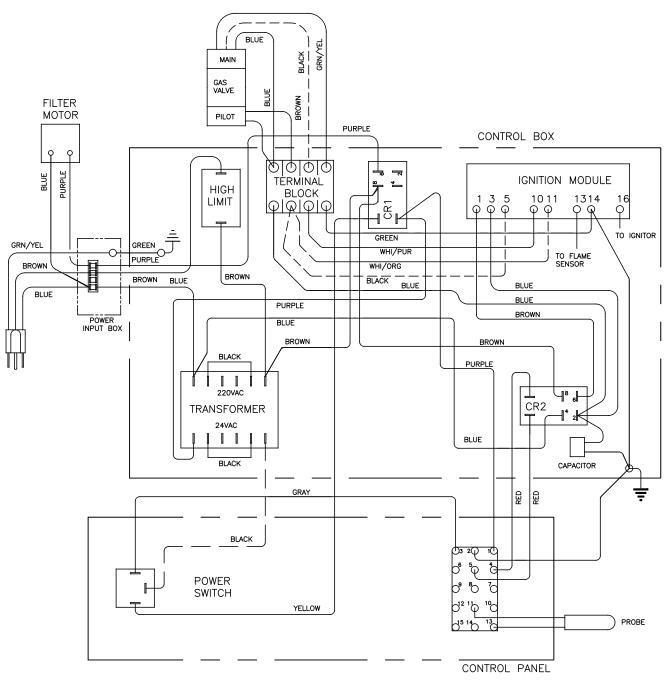


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MODEL 1800GHCE:



MODEL 1800GHUK:



14709

5 - OPERATIONAL CHECK-OUT

See operation manual for more detailed instructions.

COVER ASSEMBLY

DO NOT force cover open or closed when pressure regulating valve is closed. Damage to the unit may occur.

- OPEN pressure regulating valve. Be sure pressure gauge indicates no pressure in cooking well.
- To OPEN cover, push down on cover handle then rotate handle clockwise. Slide assembly to the rear of the unit.
- 3. Remove basket lifter, envelope and all other items packed in the food basket.
- 4. Remove food basket and packing in bottom of cooking well.
- To CLOSE cover, pull assembly toward the front and rotate handle counterclockwise.

Cover should slide easily front to back and cover should lower and raise easily within the cooking well.

CLOSE pressure regulating valve handle.

Handle should slide easily from side to side and locking pin should move in and out over the cover.

INITIAL START UP

ELECTRIC:

AWARNINGDO NOT operate unit without filter pan and filter pan cover in its proper position. Filter pan cover must be wiped clean after each filtering cycle.

- 1. Clean unit as outlined in the operation manual.
- 2. Make sure all controls are OFF.
- Install cover O-ring as outlined under COVER in CLEANING section of operation manual.
- 4. Fill cooking well with cooking oil. See PRE-COOKING PREPARATIONS in operation manual.
- 5. Turn circuit breaker ON or install fuse.
- 6. Turn cook/filter switch to COOK. The HEAT ON light will illuminate indicating the cooking oil is being heated.
- 7. Set time and temperature controls.
- Turn pressure regulating valve handle to CLOSED. The timer will start counting down. At the end of a cook cycle, an audible alarm will sound until pressure regulating valve handle is turned to OPEN.
- 9. If CHEC appears in display, turn unit off and back to COOK.

GAS:

DO NOT operate unit without filter pan and filter pan cover in its proper position. Filter pan cover must be wiped clean after each filtering cycle.

- 1. Clean unit as outlined in the operation manual.
- 2. Make sure all controls are OFF.
- Install cover O-ring as outlined under COVER in CLEANING section of operation manual.
- 4. Fill cooking well with cooking oil. See PRE-COOKING PREPARATIONS in operation manual.
- 5. Turn circuit breaker ON or install fuse.
- 6. Turn cook/filter switch to COOK. The HEAT ON light will illuminate indicating the cooking oil is being heated.

NOTICE Check to make sure burner is actually lit. If not see LIGHTING INSTRUCTIONS

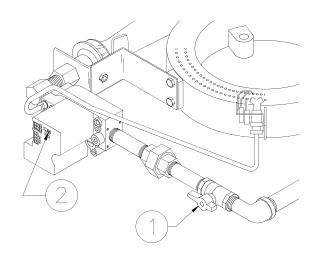
 Check flame on top of burner. It should be all blue and settled on the face of the burner. If it is not check to make sure the air shutter is locked in place.

NOTICE If it is loose see the AIR SHUTTER ADJUSTMENT procedure.

- 8. If CHEC appears in display, turn unit off and back to COOK.
- 9. Set timer and temperature controls.

 Turn pressure regulating valve handle to CLOSED. The timer will start counting down. At the end of a cook cycle, an audible alarm will sound until pressure regulating valve handle is turned to OPEN.

1800GH LIGHTING INSTRUCTIONS



Start-Up:

- 1. Turn cook/filter switch OFF.
- See OIL LEVEL in the operation manual.
- 3. Turn gas shut-off valve (1) ON. Wait five minutes before turning gas control ON.
- 4. Slide switch (2) on top of gas control to ON.

The model 1800GH has an intermittent pilot burner.
This type of pilot lights when the controller calls for heat and goes out when the controller isn't calling for heat.

5. To light pilot and main burners, turn cook/filter switch to COOK.

Shut Down:

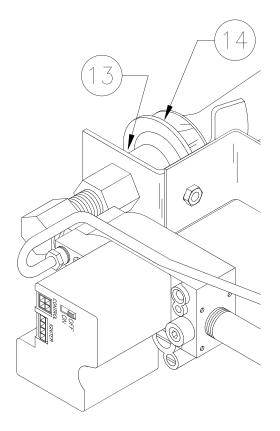
- 1. Turn cook/filter switch OFF.
- 2. Turn gas control switch (2) OFF.
- 3. Turn gas shut-off (1) valve OFF.

AIR SHUTTER ADJUSTMENT

Maintains air/gas mixture for good combustion. Start with a 1/4" gap after installing a new gas valve or piping.

Adjustment will be necessary if main burner flame is mostly orange or yellow. If flame is out of adjustment, check combustion chamber and flue for soot build-up.

If soot is present, DO NOT operate unit and call Service Technician. Soot is black and powdery to the touch. See COMBUSTION CHAMBER.



Adjustment:

- 1. Loosen locknut (13) which locks air shutter.
- 2. Screw shutter (14) in or out to obtain a blue flame. Flame should start burning slightly above main burner.
- 3. Tighten locknut.



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