

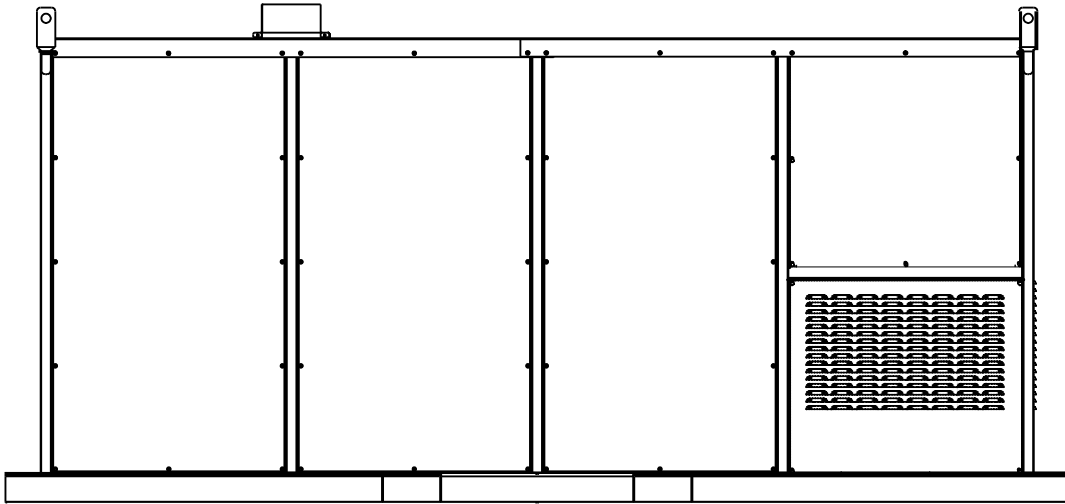


**OIL/NG/LP FIRED SPACE HEATER: BLAZE 2000 D/G**

Issue Date - September 18, 2012



REPORT # 367-G-04d-5



This unit was tested and listed to UL 733-1993 (R2010), CSA B140.8-1967 (R2011), and ANSI Z83.7-2011/CSA2.14-2011

## Installation Instructions-Manual-Maintenance-Parts List

**CAUTION: DO NOT TAMPER WITH HEATER OR ITS CONTROLS. CALL A QUALIFIED SERVICE TECHNICIAN**

Heater can only be used with listed gas hoses that may be purchased through the retailer or directly through Campo Equipment

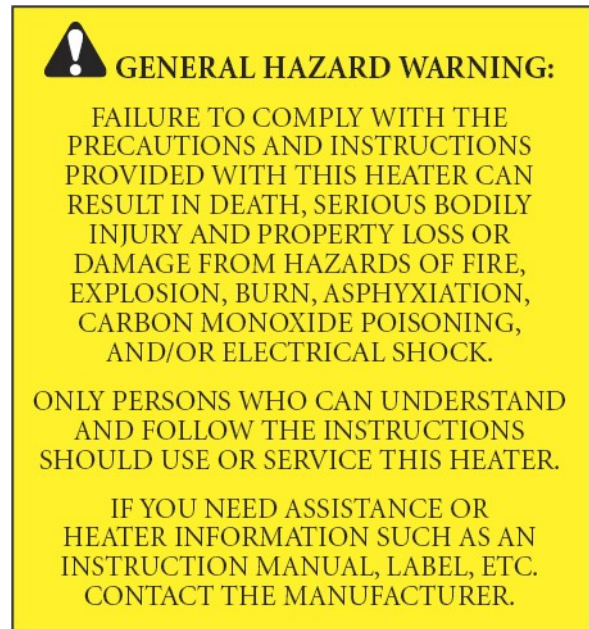
**RETAIN MANUAL FOR FUTURE REFERENCE REV 3 07/11/13**

# CERTIFIED FOR USE IN CANADA AND THE U.S.A.

**CAMPO EQUIPMENT CO. LTD. (ECOBLAZE)**

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## READ INSTRUCTIONS PRIOR TO STARTING HEATERS

THE INSTALLATION OF THE EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REGULATION OF AUTHORITIES HAVING JURISDICTION AND CSA STANDARD B139

THIS HEATER IS DESIGNED AND APPROVED FOR USE AS A CONSTRUCTION HEATER IN ACCORDANCE WITH STANDARD ANSI Z83.7-2011/CSA 2.14-2011.

**CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT APPLICATIONS.**

OTHER STANDARDS GOVERN THE USE OF FUEL GASES AND HEAT PRODUCING PRODUCTS IN SPECIFIC APPLICATIONS. YOUR LOCAL AUTHORITY CAN ADVISE YOU ABOUT THESE.

## BLAZE 2000 G

**NOTE:** THIS HEATER IS INTENDED FOR USE PRIMARILY AS TEMPORARY HEATING OF BUILDINGS UNDER CONSTRUCTION, ALTERATION OR REPAIR

THIS UNIT IS APPROVED FOR USE WITH PROPANE OR NATURAL GAS. NEVER ATTEMPT TO BURN GARBAGE OR PAPER IN THE HEATER AND REMOVE ALL PAPER AND RAGS FROM AROUND THE HEATER. FOR YOUR SAFETY, DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPOURS IN THE VICINITY OF THE HEATER.

DO NOT TAMPER WITH THE HEATER AND CONTROLS! THE HEATER MUST BE SERVICED BY QUALIFIED SERVICE PERSONNEL.

**WARNING: THOSE WHO INSTALL THE HEATER MUST HAVE THE TRAINING AND EXPERIENCE NECESSARY TO DO SO. READ THIS MANUAL CAREFULLY. FAILURE TO PROPERLY INSTALL AND SETUP THE HEATER COULD RESULT IN PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE. THE QUALIFIED SERVICE PERSONNEL PERFORMING THIS WORK ASSUMES A SERIOUS RESPONSIBILITY FOR THE CORRECT INSTALLATION, SETUP, AND START-UP OF THE HEATER.**

## **CHECK WITH YOUR**

LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT APPLICATIONS.

**WARNING: INTENDED USE IS PRIMARILY THE TEMPORARY HEATING OF BUILDINGS UNDER CONSTRUCTION, ALTERATION, REPAIR OR EMERGENCIES ONLY.**

**WARNING: ALWAYS PROVIDE ADEQUATE VENTILATION. MINIMUM ACCEPTABLE VENTILATION REQUIRED: 1 SQ. IN. OF FRESH AIR MUST BE SUPPLIED FOR EVERY 1000 BTU/H OF HEAT.**

**WARNING: THIS HEATER SHALL BE INSTALLED SUCH THAT IT IS NOT DIRECTLY EXPOSED TO WATER SPRAY, AND/OR DRIPPING WATER.**

## **CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT APPLICATIONS**

THESE INSTRUCTIONS HAVE BEEN THOROUGHLY WRITTEN, BUT THEY CANNOT COVER EVERY PECULIAR INSTALLATION AND CONTINGENCY. THEREFORE IF THERE IS ANY DOUBT AS TO INTERPRETATION OF ANY REQUIREMENTS, CONTACT YOUR LOCAL AUTHORITY HAVING JURISDICTION, YOUR LOCAL DISTRIBUTOR, OR THE FACTORY.

### INSTALLATION REGULATIONS:

- 1.) THE INSTALLATION OF THE UNIT SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.

WIRING: ALL INTERNAL WIRING OF THE HEATER IS COMPLETED BY THE MANUFACTURER. ALL EXTERNAL WIRING MUST CONFORM TO EXISTING ELECTRICAL CODES AS LAID DOWN BY THE AUTHORITIES HAVING JURISDICTION.

THE INSTALLATION OF THIS HEATER FOR USE WITH NATURAL GAS SHALL CONFORM WITH LOCAL CODES OR, IN THE ABSENCE OF CODES, WITH THE NATIONAL FUEL GAS CODE ANSI Z223.1/NFPA 54 AND THE NATURAL GAS AND PROPANE INSTALLATION CODE, CSA B149.1. THIS HEATER MUST BE INSTALLED BY A QUALIFIED GAS TECHNICIAN, FOLLOWING LOCAL CODES PUBLISHED BY THE AUTHORITY HAVING JURISDICTION. ALL INSTALLATIONS PERFORMED IN THE STATE OF MASSACHUSETTS MUST BE COMPLETED BY A QUALIFIED PLUMBER AND GAS FITTER OF THE STATE OF MASSACHUSETTS.

THE INSTALLATION OF THIS HEATER FOR USE WITH A PROPANE TANK OR CYLINDER SHALL CONFORM WITH LOCAL CODES OR IN THE ABSENCE OF LOCAL CODES, WITH THE STANDARD FOR THE STORAGE AND HANDLING OF LIQUEFIED PETROLEUM GASES, ANSI/NFPA 58 AND THE NATURAL GAS AND PROPANE INSTALLATION CODE, CSA B149.1

THIS HEATER MUST BE LOCATED AT LEAST 10FT (3M) FROM ANY PROPANE GAS CYLINDER. THIS HEATER SHALL NOT BE DIRECTED TOWARD ANY PROPANE GAS CONTAINER WITHIN 20FT (6M).

OTHER STANDARDS GOVERN THE USE OF FUEL GASES AND HEAT PRODUCING PRODUCTS IN SPECIFIC APPLICATIONS. YOUR LOCAL AUTHORITY CAN ADVISE YOU ABOUT THESE.

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# READ INSTRUCTIONS PRIOR TO STARTING HEATERS

## BLAZE 2000 D

THIS UNIT IS APPROVED FOR USE WITH NO. 1 AND NO. 2 FUEL OIL . NEVER USE GASOLINE OR CRANKCASE OIL WHICH MAY CONTAIN GASOLINE AS FUEL FOR THE HEATER. NEVER ATTEMPT TO BURN GARBAGE OR PAPER IN THE HEATER AND REMOVE ALL PAPER AND RAGS FROM AROUND THE HEATER. FOR YOUR SAFETY, DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPOURS IN THE VICINITY OF THE HEATER.

FOR YOUR SAFETY DO NOT ATTEMPT TO START THE HEATER IF:

- 1.) EXCESS OIL HAS ACCUMULATED
- 2.) THE HEATER IS FULL OF VAPOUR
- 3.) THE COMBUSTION CHAMBER IS EXTREMELY HOT

DO NOT TAMPER WITH THE HEATER AND CONTROLS! THE HEATER MUST BE SERVICED BY QUALIFIED SERVICE PERSONNEL.

**WARNING: THOSE WHO INSTALL THE HEATER MUST HAVE THE TRAINING AND EXPERIENCE NECESSARY TO DO SO. READ THIS MANUAL CAREFULLY. FAILURE TO PROPERLY INSTALL AND SETUP THE HEATER COULD RESULT IN PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE. THE QUALIFIED SERVICE PERSONNEL PERFORMING THIS WORK ASSUMES A SERIOUS RESPONSIBILITY FOR THE CORRECT INSTALLATION, SETUP, AND START-UP OF THE HEATER.**

THESE INSTRUCTIONS HAVE BEEN THOROUGHLY WRITTEN, BUT THEY CANNOT COVER EVERY PECULIAR INSTALLATION AND CONTINGENCY. THEREFORE IF THERE IS ANY DOUBT AS TO INTERPRETATION OF ANY REQUIREMENTS, CONTACT YOUR LOCAL AUTHORITY HAVING JURISDICTION, YOUR LOCAL DISTRIBUTOR, OR THE FACTORY.

IMPORTANT: IF YOU OBSERVE THE PRIMARY CONTROL IS LOCKED OUT, PUSH THE RED RESET BUTTON ONLY ONCE. IF THE BURNER DOES NOT RE-LIGHT, DO NOT PUSH THE BUTTON A SECOND TIME OR EXCESS OIL WILL ACCUMULATE IN THE COMBUSTION CHAMBER—CALL A QUALIFIED SERVICE PERSON.

INSTALLATION REGULATIONS:

- 1.) INSTALLATION SHOULD BE IN ACCORDANCE WITH ALL LOCAL AND NATIONAL REGULATIONS.
- 2.) IN CANADA USE THE CSA B139 INSTALLATION CODE FOR OIL BURNING EQUIPMENT.

WIRING: ALL INTERNAL WIRING OF THE HEATER IS COMPLETED BY THE MANUFACTURER. ALL EXTERNAL WIRING MUST CONFORM TO EXISTING ELECTRICAL CODES AS LAID DOWN BY THE AUTHORITIES HAVING JURISDICTION. IN CANADA, REFER TO CSA C22.1 CANADIAN ELECTRICAL CODE AND IN THE UNITED STATES AS OUTLINED IN THE BOCA CODE, OR THE NFPA 70 NATIONAL ELECTRICAL CODE.

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**WARNING: LACK OF COMBUSTION AIR CAN CAUSE A DIRTY FIRE, ODOURS IN ENCLOSED SPACES, AND BACKDRAFTING, POTENTIALLY RESULTING IN NAUSEA OR ASPHYXIATION OF THE OCCUPANTS.**

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BLAZE 2000 D/G SPECIFICATIONS Burner Make & Model	BLAZE 2000G-BECKETT (NG/LP) Beckett CG25	BLAZE 2000D-BECKETT (OIL) Beckett CF2300A
<b>Voltage</b>	208V to 240V, target 220 Volts in 3PH or 1PH	208V to 240V, target 220 Volts in 3PH or 1PH
<b>Input (BTU/h)</b>	Hi Fire 2 Million Low Fire 1 Million	Hi Fire 2 Million Low Fire 1 Million
<b>Output BTU's</b>	1.8 Million	1.8 Million
<b>Heated Air CFM/AMPS for Fan speeds:</b> 3-CFM/1PH Amps/3PH Amps 2-CFM/1PH Amps/3PH Amps 1-CFM/1PH Amps/3PH Amps	3- 16,000/55A/32A 2- 13,500/38A/22A 1- 11,000/19A/11A	3- 16,000/55A/32A 2- 13,500/38A/22A 1- 11,000/19A/11A
<b>MOTOR HP</b>	10	10
<b>Ductability</b>	200 ft overall	200 ft overall
<b>Outlet Duct Size</b>	24" or (4) X 12"	24" or (4) X 12"
<b>Inlet Duct Size</b>	24"	24"
<b>NG Set up (All heaters come factory set for propane use.)</b>	Easy switch over Blue handle Ball Valve on Gas manifold. Closed position: Propane Open position: Natural Gas	N/A
<b>Manifold pressure "W.C."</b>	Hi Fire 4.7 Lo Fire 2 LP, Hi Fire 3.7 Lo Fire 1 NG (Pressure to be set before NG/LP switchover valve and after adjusting valve on manifold)	N/A
<b>Minimum/Maximum Supply Pressure "W.C."</b>	9/14	N/A
<b>Nozzle</b>	N/A	8.5 GPH X 60 B
<b>Pump Pressure</b>	N/A	Hi Fire 300 PSI Low Fire 135 PSI
<b>GPH</b>	N/A	Hi Fire 14.72 GPH Low Fire 10 GPH
<b>Fuel</b>	NG or LP	No. 1 or No. 2 / Kerosene or Furnace Oil
<b>Head Setting</b>	25.3S	1
<b>Air Setting</b>	Hi Fire Red 50 Low Fire Blue 30 Orange 40	Hi Fire Red 60 Low Fire Blue 40 Orange 50

NOTE: If pressure reading taken after NG/LP switchover valve when in propane operation then pressure is to be Hi Fire 2.1, Lo Fire 1

# CONNECTING THE CYLINDER

IF CYLINDERS ARE USED TO SUPPLY THE HEATER, NO CYLINDERS SMALLER THAN 100 LB CAPACITY SHALL BE USED. THESE CYLINDERS MUST SUPPLY A VAPOUR WITHDRAWAL ONLY.

- 1.) ALL CYLINDER CONNECTIONS MUST BE MADE USING A WRENCH TO TIGHTEN THE POL FITTING.
- 2.) BE SURE THAT THE CYLINDER VALVE IS IN THE CLOSED POSITION WHEN CONNECTING OR DISCONNECTING THE CYLINDER.
- 3.) PROPER PROCEDURE FOR GAS LEAK TESTING: A SOAP AND WATER SOLUTION MUST BE APPLIED TO ALL CONNECTIONS IN ORDER TO LEAK CHECK THE SYSTEM.
- 4.) THE HOSE ASSEMBLY MUST BE VISUALLY INSPECTED PRIOR TO EACH USE OF THE HEATER.

THE GAS MUST BE TURNED OFF AT THE PROPANE SUPPLY CYLINDER(S) WHEN THE HEATER IS NOT IN USE. WHEN THE HEATER IS TO BE STORED INDOORS, THE CONNECTION BETWEEN THE PROPANE SUPPLY CYLINDER(S) AND THE HEATER MUST BE DISCONNECTED AND THE CYLINDERS REMOVED FROM THE HEATER AND STORED IN ACCORDANCE WITH STANDARDS FOR THE STORAGE AND HANDLING OF LIQUIFIED PETROLEUM GASES, ANSI/NFPA 58 AND CSA B149.1, NATURAL GAS AND PROPANE INSTALLATION CODE.

**PIPING:** THIS HEATER MUST BE INSTALLED BY A QUALIFIED GAS TECHNICIAN FOLLOWING LOCAL CODES PUBLISHED BY THE AUTHORITY HAVING JURISDICTION. SIZING OF SUPPLY PIPING MUST BE DETERMINED USING THE LENGTH OF PIPE RUN AS WELL AS TOTAL BTUH RATING OF THE APPLIANCE(S). APPROPRIATE PIPING TABLES MUST BE USED TO DETERMINE SIZE OF SUPPLY PIPING DEPENDANT ON THE LENGTH OF RUN FROM SOURCE.

## CONNECTING TO AN EXTERNAL FUEL TANK (BLAZE 2000 D)

Beckett CF2300A is fitted with 3/8" SAE male fittings and is set up for a 2 line system to eliminate priming. Ensure fuel tank has an supply line and a return line and connect the supply line to the 3/8" SAE fitting on the inlet side of the fuel filter and the return line to the return fitting located on the Beckett Burner pump. For a 1 line system remove bypass plug located on inlet port of Beckett Pump and just connect fuel line to inlet side of fuel filter.

# FUEL (BLAZE 2000 G)

THE INSTALLATION SHALL CONFORM WITH LOCAL CODES OR, IN THE ABSENCE OF LOCAL CODES, WITH THE NATIONAL FUEL GAS CODE, ANSI Z223.1/NFPA 54 AND THE NATURAL GAS AND PROPANE INSTALLATION CODE, CSA B149.1

THIS HEATER WILL OPERATE ON PROPANE OR NATURAL GAS. THE MANIFOLD PRESSURES ARE LISTED ON THE APPROVAL LABEL. TO DETERMINE WHICH FUEL TO USE SEE RATING PLATE. DO NOT ATTEMPT TO USE THE HEATER WITHOUT CONSULTING THE RATING PLATE

**NOTE: THE PROPER POSITION ON THE EASY SWITCH OVER BLUE HANDLE BALL VALVE MUST BE USED AND RATING PLATE MUST REFLECT THE FUEL THE HEATER IS BURNING. DO NOT OPERATE THE HEATER WITHOUT CONSULTING THE RATING PLATE.**

**HEATER CONVERSION MUST BE DONE BY A QUALIFIED TECHNICIAN AND RATING PLATE MUST REFLECT ANY CHANGE.**

**THIS UNIT HEATER IS EQUIPPED FOR NATURAL GAS OR LP GAS. THIS UNIT HEATER IS EQUIPPED WITH ORIFICES SIZED FOR OPERATION WITH NATURAL OR LP GAS VIA THE EASY SWITCH OVER BLUE HANDLE BALL VALVE. FOR CONVERSION TO LP (OR NATURAL) GAS SEE INSTRUCTION PLATE ON THE APPLIANCE.**

**Easy switch over Blue handle Ball Valve on Gas manifold.**

**Closed position: Propane**

**Open position: Natural Gas**

## HOSES

ALL HOSES USED TO CONNECT THIS HEATER TO FUEL SUPPLY MUST BE TYPE 1 APPROVED PROPANE/NATURAL GAS HOSE ASSEMBLIES.

## ELECTRICAL

WARNING: ELECTRICAL GROUNDING INSTRUCTIONS

THIS APPLIANCE IS ABLE IS TO RECEIVE 208V TO 240V, TARGET 220 Volts IN 3PH OR 1PH

### INSTALLATION

#### Power Supply

Single phase operation use L1 (RED), L2 (BLACK) plus green for ground.

Three phase operation use L1 (RED), L2 (BLACK) and L3 (BLUE) plus green for ground

#### BLAZE 2000 D/G

#### Power Cords for Single Phase

upto 100' 3 # 6

upto 200' 3 # 4

upto 300' 3 # 3

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BLAZE 2000 D/G  
Power Cords for Three Phase  
upto 100' 4 # 8  
upto 200' 4 # 6  
upto 300' 4 # 4

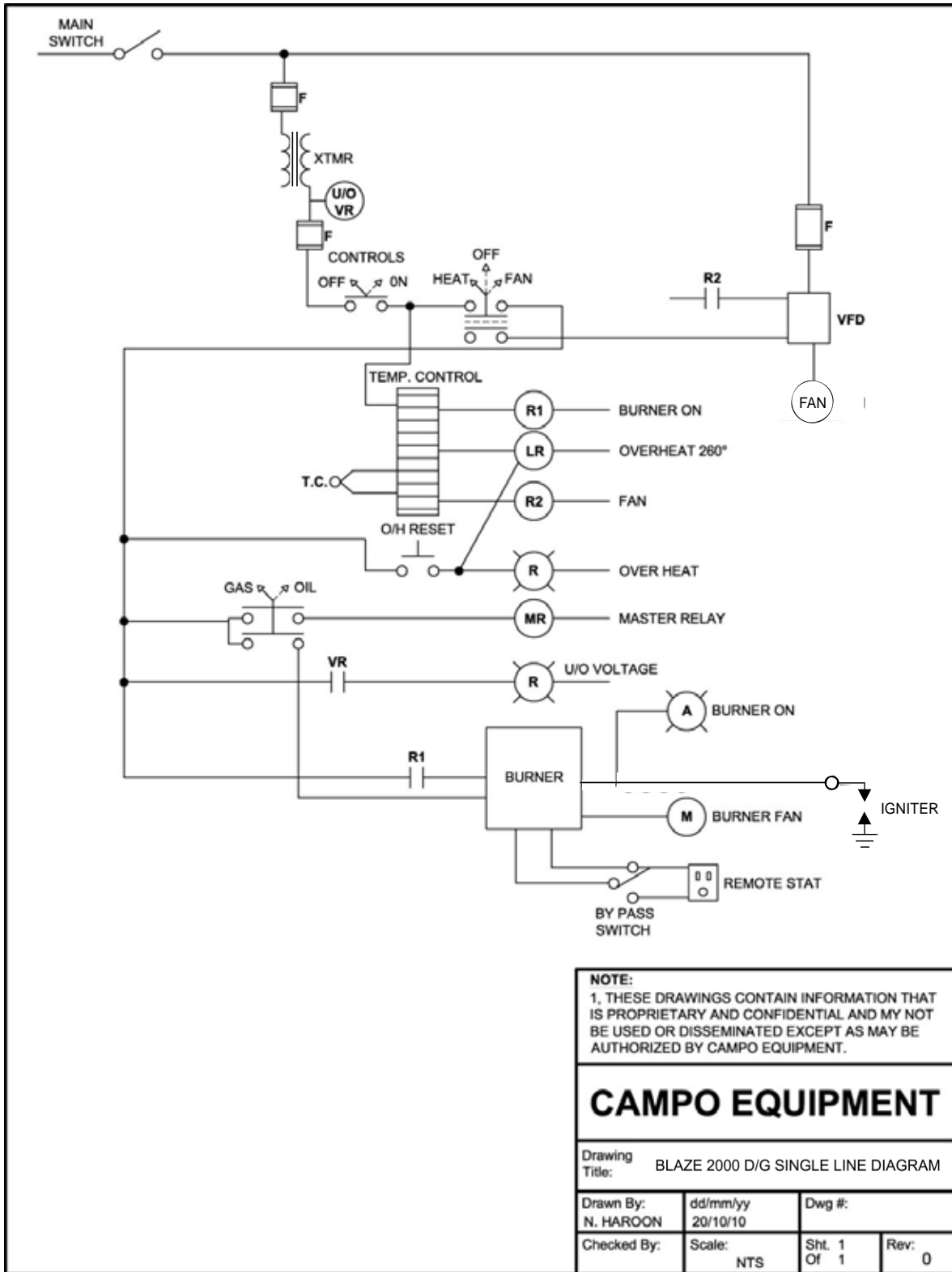
NOTE: IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE TEW 14GA WIRE OR ITS EQUIVALENT.

<b>ELECTRICAL SYSTEM</b>	<b>BLAZE</b>
<b>Volts-Hertz-Phase</b>	208V to 240V, target 220 Volts in 3PH or 1PH
<b>Full Load (Amps) (1PH OR 3PH)</b>	55 or 32
<b>Max fuse size (Amps) (1PH OR 3PH) with time delay</b>	65 or 40

The electrical grounding of the heater shall be in compliance with the National Electrical Code, ANSI/NFPA 70, or the CSA C22.1, Canadian Electrical Code, Part I



BLAZE 2000 D/G SINGLE LINE DIAGRAM



# SEQUENCE OF OPERATION FOR BLAZE 2000 D/G

With “Main Switch” in “ON” position and “Controls” in “ON” position and selector on “HEAT” operation and selector switch in “STAT ON” position and heat stat plugged into receptacle:

- 1: Heat stat senses a drop in temperature and the ignition control module is energized.
- 2: The module performs a safe start check and the burner and spark generator start. Burner lights, ignition stops, and flame current is sensed.

For oil: the Genisys primary control contacts close, the burner motor and ignitor are energized after a 45 second delay. The primary control energizes the pump solenoid valve and flame is established. The cad cell senses flame and the burner continues to fire.

- 3: Temperature controller thermocouple heats up to factory set point (95F) and circulating air blower starts.
- 4: When the heat stat senses space temperature at set point, the burner shuts down.
- 5: The circulating blower continues to operate until the air in the unit cools to the factory set point (80F) then turns off.

With selector switch in “BYPASS” position:

- 1: The module performs a safe start check and the burner and spark generator start.
- 2: Burner lights, ignition stops, and flame current is sensed.
- 3: Temperature controller thermocouple heats up to factory set point (95F) and circulating air blower starts.
- 4: When the heat/fan selector switch is placed to the off position the burner shuts down.
- 5: The circulating blower continues to operate until the air in the unit cools to the factory set point (80F) then turns off.



# OPERATING INSTRUCTIONS FOR BLAZE 2000 *DIG*

## STARTING HEATER

- 1.) ENSURE HEATER IS ON FLAT, LEVEL GROUND BEFORE STARTING, CANOPY AND FAN GUARDS MUST BE CLOSED.
- 2.) MAKE SURE "MAIN SWITCH" IS IN "OFF" POSITION.
- 3.) WIRE IN SUPPLY CORD TO 208V to 240V, Target 220V SUPPLY WITH GROUND.

### Power Supply Installation

Single phase operation use L1 (RED), L2 (BLACK) plus green for ground.

Three phase operation use L1 (RED), L2 (BLACK) and L3 (BLUE) plus green for ground

- 4.) SELECT "GAS" OR "OIL".
- 5.) TURN "MAIN SWITCH" TO "ON" POSITION.
- 6.) TURN "CONTROLS" SWITCH TO "ON" POSITION.
- 7.) FOR THERMOSTAT OPERATION FLIP SELECTOR SWITCH TO "STAT ON" POSITION. IF YOU ARE NOT USING A THERMOSTAT FLIP SELECTOR SWITCH TO "BYPASS" POSITION.
- 8.) TURN "HEAT/FAN" SWITCH TO "HEAT" POSITION.

Please Note: When using a generator for electrical supply, make sure the generator is properly grounded and is running at a 60HZ frequency. In the event that a generator is being used and the generator runs out of fuel, make sure the heater "MAIN SWITCH" is in the "OFF" position before restarting generator, failure to do so may damage heater.

## STOPPING HEATER

- 1.) Close main gas supply valve while heater is operating or if operating heater with oil skip to # 2.)
- 2.) Flip "HEAT/FAN" selector switch to "OFF" position. The supply fan will continue to operate until the heat exchanger has sufficiently cooled. Do not disconnect main power until supply fan has stopped running and "MAIN SWITCH" is on "OFF" position.
- 3.) Disconnect heater from gas supply OR disconnect fuel oil lines.

WARNING BEFORE REMOVING ANY GUARDS OR SAFETIES TURN "MAIN SWITCH" TO "OFF" POSITION AND DISCONNECT THE MAIN POWER AS THE SUPPLY FAN WILL CYCLE AUTOMATICALLY.

## IF HEATER FAILS TO START

- 1.) PRESS BURNER RESET BUTTON TO RESET CONTROL ON BECKETT CG25. FOR OIL OPERATION PRESS AND HOLD THE RED BUTTON ON THE BECKETT GENISYS CONTROLLER LOCATED ON THE CONTROL PANEL FOR 3 SECONDS TO RESET.
- 2.) FOR GAS OPERATION CHECK GAS PRESSURE SUPPLY. SUPPLY AND MANIFOLD PRESSURE MUST FOLLOW THOSE ON RATING PLATE. FOR OIL OPERATION CHECK FUEL LEVEL, FILTER, NOZZLE AND SUCTION TUBING.
- 3.) ENSURE PROPER POWER SUPPLY AND WIRE GAUGE IS BEING USED.
- 4.) IF HEATER FAILS TO IGNITE AFTER 3 ATTEMPTS, CALL YOUR SUPPLIER FOR SERVICE.

NOTE: IF UNIT HAS BEEN RESET A NUMBER OF TIMES WITHOUT IGNITION – DO NOT ATTEMPT TO START THE HEATER: CONTACT A QUALIFIED SERVICE TECHNICIAN.

NOTE: IN OIL OPERATION IF UNIT HAS BEEN RESET A NUMBER OF TIMES WITHOUT IGNITION THERE WILL BE AN ACCUMULATION OF OIL IN THE COMBUSTION CHAMBER! DO NOT ATTEMPT TO START THE HEATER: CONTACT A QUALIFIED SERVICE TECHNICIAN.

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## CAUTION

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- 1.) DO NOT SHUT OFF BY DISCONNECTING SUPPLY CORD. THE HEAT EXCHANGER SHOULD BE PROPERLY COOLED BEFORE POWER SHUTDOWN.
- 2.) ALWAYS MAINTAIN ADEQUATE FUEL SUPPLY.
- 3.) IF GAS BURNER IS INSTALLED HEATER IS FOR USE WITH PROPANE OR NATURAL GAS ONLY. SEE APPROVAL LABEL.
- 4.) DO NOT PLUG ANYTHING OTHER THAN THE THERMOSTAT INTO THE "REMOTE STAT" PLUG.
- 5.) FOLLOW ELECTRICAL REQUIREMENTS SHOWN ON RATING PLATE AND/OR ELECTRICAL REQUIREMENTS SECTION OF THIS MANUAL.
- 6.) IN OIL OPERATION DO NOT START THE HEATER WHEN EXCESS OIL HAS ACCUMULATED IN CHAMBER.
- 7.) IN OIL OPERATION DO NOT FILL TANK WHILE UNIT IS OPERATING.
- 8.) IN NO CASE SHOULD POWER CABLES BE SMALLER THAN WHAT IS STIPULATED ON NAMEPLATE AND INSTRUCTION MANUAL.
- 9.) IN OIL OPERATION DO NOT USE GASOLINE, CRANKCASE OIL OR HEAVIER THAN NO. 2 FURNACE OIL.
- 10.) DO NOT START THE HEATER WHEN THE CHAMBER IS HOT
- 11.) DO NOT FILL THE TANK WHILE THE UNIT IS OPERATING
- 12.) DO NOT TAMPER WITH THE UNIT. HAVE A COMPETENT SERVICE-MAN MAKE ANY ADJUSTMENTS
- 13.) MAX OUTLET TEMPERATURE (U.S./CA) 250F/290F
- 14.) AT INSTALLATION ELEVATIONS ABOVE 2000 FT (610m), THE APPLIANCE SHALL BE DERATED 4 PERCENT FOR EACH 1000 FT (305m) OF ELEVATION ABOVE SEE LEVEL
- 15.) SHOULD OVERHEATING OCCUR, OR THE GAS SUPPLY CONTROL SYSTEM FAIL TO SHUT OFF THE FLOW OF GAS, SHUT OFF THE MANUAL GAS VALVE TO THE UTILITY HEATER BEFORE SHUTTING OFF THE ELECTRICAL SUPPLY.
- 16.) DO NOT USE THIS UTILITY HEATER IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE HEATER AND REPLACE ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.

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## ELECTRICAL REQUIREMENTS: 65 AMPS

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## INSTALLATION INSTRUCTIONS

- 1.) The recommendations of local authorities having jurisdiction must be followed. For recommended installation practices refer to C.S.A. standard B139. (CANADA)
- 2.) When firing the unit in an enclosed area allow 1 square inch per thousand BTU's (refer to C.S.A. B139) to allow the free entry of the air required for operation.
- 3.) For electrical supply: 208V to 240V, target 220 Volts in 3PH or 1PH  
Power Supply Installation

Single phase operation use L1 (RED), L2 (BLACK) plus green for ground.

Three phase operation use L1 (RED), L2 (BLACK) and L3 (BLUE) plus green for ground

Do not operate the unit in partly ventilated areas without a flue pipe or in close proximity to combustible surfaces or materials.

2.)

**NOTE: Installation clearances are as follows:**

3.)

TOP	2 inches = 5 cm
SIDES	6 inches = 15 cm
BURNER END	2 feet = 61 cm
DISCHARGE END	10 feet = 305 cm
VENT CONNECTOR	18 inches = 46 cm
COMBUSTIBLE FLOOR	6 feet = 183 cm from all sides



## FLUE PIPE CONNECTIONS

### VENT TO OUTDOORS

#### FOR INSTALLATION ON NON-COMBUSTIBLE FLOORS ONLY

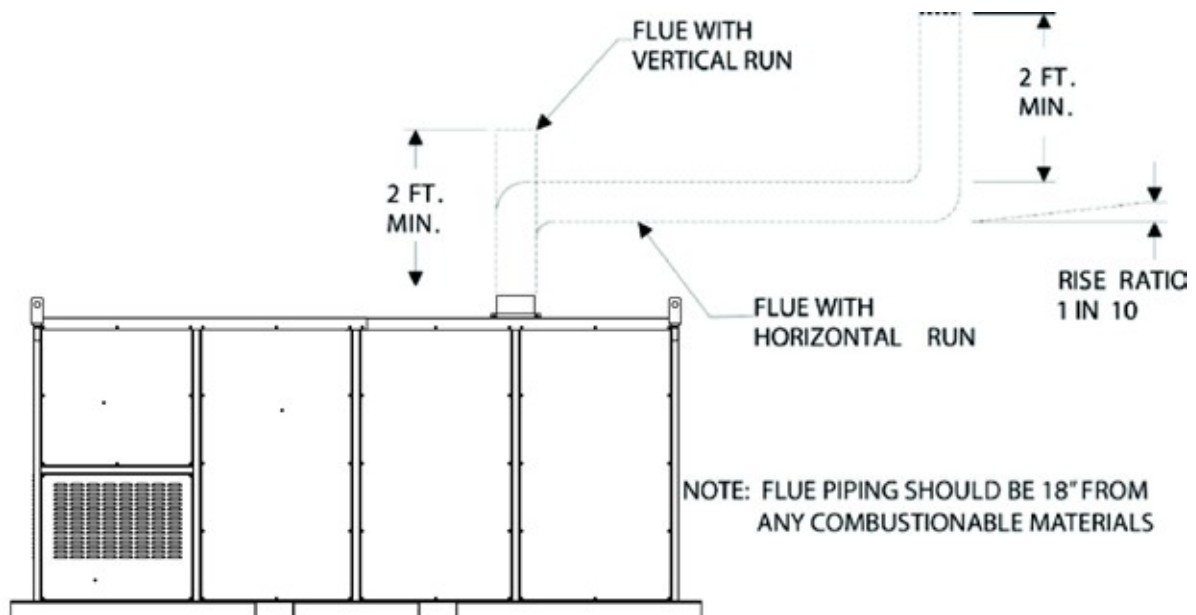
When this heater is connected to a flue pipe, the flue pipe shall terminate in a vertical section at least two feet long and sufficient draft (max chimney draft of .02 inches of water column) shall be created to assure safe and proper operation of the heater. Horizontal runs should have rise ratio of 1 in 10 away from the heater. Where down drafts are liable to occur a vent cap should be used. All venting should correspond with the CSA B139 standard or local codes.

**CAUTION: HEATER FLUE TEMPERATURES CAN REACH 400F TO 500F THEREFORE IT IS A RANGE THAT IS BOTH HAZARDOUS TO HUMANS AND HIGHER THAN THE AUTO-IGNITION TEMPERATURES OF MANY MATERIALS. THEREFORE EXERCISE CAUTION IN HEATER PLACEMENT AND THE USE OF AN INSULATED GUARD AND STACK IS HIGHLY RECOMMENDED.**

Horizontal venting runs shall always terminate with a minimum 24" vertical.

NOTE: FOR OPTIMAL COMBUSTION PERFORMANCE A 30" C-VENT FLUE EXTENSION WITH RAIN CAP IS RECOMMENDED AT ALL TIMES.

### INSTALLATION CLEARANCES



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MAXIMUM ALLOWABLE DUCT LENGTHS BLAZE 2000 D/G -200 ft overall

INLET DUCTS 24" on each inlet

DISCHARGE DUCTS 24" on outlet with optional (4) X 12" outlet

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THIS HEATER IS FOR USE WITH AND WITHOUT DUCTWORK  
WHEN USING DUCTWORK AVOID ANY KINKS OR SHARP BENDS.  
INSUFFICIENT INLET AIR OR INSUFFICIENT DISCHARGE AIR WILL CAUSE  
THE HEATER TO OVERHEAT.

## BLAZE 2000 D/G MAINTENANCE INSTRUCTIONS

WARNING EVERY CONSTRUCTION HEATER SHOULD BE INSPECTED  
BEFORE EACH USE, AND AT LEAST ANNUALLY BY A QUALIFIED SERVICE  
PERSON. INCORRECT MAINTENANCE MAY RESULT IN IMPROPER  
OPERATION OF THE HEATER AND SERIOUS INJURY COULD OCCUR.

### HOSE ASSEMBLIES

The hose assemblies shall be visually inspected prior to each use of the heater. If it is evident there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer.

### TEMPERATURE CONTROLLER AND THERMOCOUPLE

The temperature controller protocols should be checked every heating season to ensure the burner will shutdown if temperature exceeds 250 F (US)/290 F (CA) at the outlet duct. This can be accomplished by restricting the air flow through the unit. After tests are complete, remove restrictors as both inlet and outlet ducts must be open for proper operation.

The temperature controller setting of 95F has been selected to allow for preheating of the heat exchanger to ensure that only heated air is allowed to enter the space. Upon satisfying the need for heat, the temperature controller will continue to run the supply fan until the heat exchanger has cooled sufficiently. This feature will help prolong the life of the heat exchanger. The temperature controller must be replaced if the fan motor does not shut off after the heat exchanger has cooled down.

### Temperature Controller Protocols

#### Fan Turns on at 95 F

Out# 2 is set at 190° (This will cycle the burner off 190° and back on at 160°.) If the burner reset light goes on; you need to go into the burner compartment in the door under the air supply. For the Riello G900 there is a hole near the top of the red panel box, you need to depress the button inside to reset burner. For the Beckett CG10A the Honeywell controller must be reset by pressing the reset button. For the Beckett CFBOO oil burner the Beckett Genisys controller located on the control panel must be pressed.

Out# 3 is set at 260° (This will cause burner to go out on high temp.)

If this occurs you will have to reset the temperature controller, by holding down the "OVER HEAT RESET" push button.

During cool down the unit cools to 80F and then shuts down.

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## **ELECTRICAL**

Ensure all conduit (BX) connectors are tight. Open control panel door and burner compartment and check connections are tight and no frayed wires exposed.

## **FAN**

Check for dust or dirt build up on blades. Run heater to check for fan vibration. Replace fan blade if vibration is noticeable. The flow of combustion and ventilation air must not be obstructed. Be sure to check the fan assembly and ensure that the motor and blade are operating properly.

## **MOTOR**

No lubrication is necessary since the bearings are the sealed type. Clean motor of existing dust or dirt.

## **GAS TRAIN (annual basis)**

Connect gas supply to gas train with gas safety shut-off valves closed. Spray all of gas train components including safety shut-off valves with soap and water solution to check for leaks. Open safety shut off valves on gas train and spray with soap and water solution to check for leaks.

## **HEAT EXCHANGER**

If a smoky condition continues even after adjusting the air assembly, the heat exchanger should be thoroughly cleaned.

## **FUEL FILTER (OIL OPERATION)**

Replace cartridge every six months of normal usage.

NOTE: FLOW OF COMBUSTION AND VENTILATION AIR CANNOT BE OBSTRUCTED

## **FLAME DETECTOR (OIL OPERATION)**

When doing maintenance, turn on machine and run. After having machine run for a few minutes, press red button on primary control. Hold for one second and then release. If light flashes once or twice or three times, cad cell is functioning properly. If flashes four times, check alignment and proper flame. If correct a cleaning of the face of the cad cell with a soft non-abrasive cloth is recommended. If light flashes 4 times, follow above steps. If flashing four times persists, replace cad cell.

<b>LED FLASHES</b>	<b>CAD CELL RESISTANCE</b>
<b>1</b>	<b>0-400 Ohms</b>
<b>2</b>	<b>400-800 Ohms</b>
<b>3</b>	<b>800-1600 Ohms</b>
<b>4</b>	<b>&gt;=1600 Ohms</b>

## **BURNER (OIL OPERATION)**

The electrode spacing must be checked and adjusted, if necessary after every nozzle change. Nozzle should be replaced annually or sooner if burner cannot be set up to operate properly. Nozzle size and type are marked on the rating plate.

**AFTER INSPECTION, A COMPLETE COMBUSTION TEST MUST BE PERFORMED AFTER EACH ANNUAL SERVICE OF THE UNIT TO MAINTAIN OPTIMUM PERFORMANCE AND RELIABILITY.**

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**WARNING: TURN OFF THE FUEL SUPPLIES AND POWER BEFORE PERFORMING SERVICE WORK. THE 1PH (120/240V) or 3PH (120/208V) CIRCUIT IS A POTENTIAL ELECTROCUTION HAZARD.**

THE HEAT EXCHANGER CAN NOW BE CLEANED ENTIRELY FROM THE CLEAN-OUT PORTS AND THE FLUE PIPE CONNECTION.

**HEAT EXCHANGER CLEANING PROCEDURE**

- 1.) REMOVE HEATER BOX PANELS
- 2.) REMOVE EASY ACCESS PANELS LOCATED ON HEAT EXCHANGER
- 3.) REMOVE BAFFLES FROM SECONDARIES AND CLEAN
- 4.) SHOVE FLEXIBLE BRUSH VIA ACCESS PANELS AND CLEAN THOROUGHLY
- 5.) SHOVE FLEXIBLE VACUUM VIA ACCESS PANELS AND VACUUM THOROUGHLY

**HEAT EXCHANGER REASSEMBLY AFTER CLEANUP**

- 1.) CLOSE EASY ACCESS PANELS ON HEAT EXCHANGER
- 2.) CLOSE HEATER BOX PANELS

**COMBUSTION AIR ADJUSTMENTS**

NOTE: If pressure reading taken after NG/LP switchover valve when in propane operation then pressure is to be Hi Fire 2.1, Lo Fire 1

BLAZE 2000 D/G SPECIFICATIONS	BLAZE 2000G-BECKETT (NG/LP)	BLAZE 2000D-BECKETT (OIL)
NG Set up (All heaters come factory set for propane use)	Easy switch over Blue handle Ball Valve on Gas manifold. Closed position: Propane Open position: Natural Gas	N/A
Manifold pressure "W.C.	Hi Fire 4.7 Lo Fire 2 LP, Hi Fire 3.7 Lo Fire 1 NG (Pressure to be set before NG/LP switchover valve and after adjusting valve on manifold)	N/A
Minimum/Maximum Supply Pressure "W.C.	9/14	N/A
Nozzle	N/A	8.5 GPH X 60 B
Pump Pressure	N/A	Hi Fire 300 PSI Low Fire 135 PSI
Head Setting	25.3S	8
Air Setting	Hi Fire Red 50 Low Fire Blue 30 Orange 40	Hi Fire Red 60 Low Fire Blue 40 Orange 50



**NOTE:** The above settings are approximations based upon clean equipment in proper working order. Combustion air adjustments will vary with location, altitude and type of fuel used.

## COMBUSTION AIR ADJUSTMENTS

### BECKETT CG25 and CF2300A Air Adjustments

For proper combustion air adjustment a calibrated gas analyzer and smoke tester should be used to ensure complete combustion.

1.) Remove the cover screw (A) then the cover (B) and set aside.

2.) Push in on pin (G) to disengage the motor from the damper shaft and cam stack. Rotate the damper shaft by hand to place the adjustment cams in a position where their adjustment scale can be easily seen. Release pin (G) to secure the damper shaft and cam stack to the motor.

3.) Using the wrench (C) supplied with the damper motor, adjust the blue low fire cam (D) to the initial setting (For Gas 30/For Oil 40).

4.) Using the same wrench, adjust the red high fire cam (H) to the initial setting (For Gas 50/For Oil 60).

5.) To adjust the high fire transition, use a small straight edge screwdriver. For high/low fire ring burners, turn the white adjustment screw located in the orange transition cam (J) until the cam indicator is half way between the high and low settings on the scale (40 for Gas/50 for Oil).

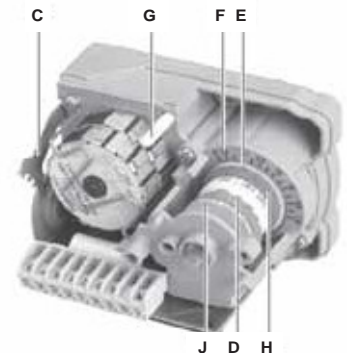
6.) After setting all the cams, make sure the damper shaft and cam stack is set between its low fire setting and its high fire setting. (If you don't it may not move when it is powered.) Push in pin (G), move the damper by hand so that notch (E) is between the low fire setting and high fire setting on scale (F), then release pin (G) to re-engage the motor. When the motor is powered it will go to its low fire setting.

7.) This initial setting should be adequate for starting the burner at low fire. Once the burner is in operation, the air setting can be adjusted for best performance.

Figure 10A - Damper Motor with Cover



Figure 10B - Damper Motor with Cover Removed



Legend (Figures 10A & 10B)

A - Cover screw	F - Damper motor scale
B - Cover	G - Disengaging pin
C - Wrench	H - High fire cam (red)
D - Low fire cam (blue)	J - Transition cam (orange)
E - Cam notch	

**WARNING: LACK OF COMBUSTION AIR CAN CAUSE A DIRTY FIRE, ODOURS IN ENCLOSED SPACES, AND BACKDRAFTING, POTENTIALLY RESULTING IN NAUSEA OR ASPHYXIATION OF THE OCCUPANTS.**

**ALL AIR ADJUSTMENTS MUST BE DONE BY A QUALIFIED SERVICE TECHNICIAN**

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## **THERMOSTAT OPERATION**

The BLAZE 2000 *DIG* can be operated with a thermostat control.

An optional heatstat is available for temperature control for the space being heated. To connect the heatstat, simply plug the heatstat into an extension cord and the extension cord into the outlet marked •REMOTE STAT•. Make sure selector is in the "STAT ON" position. Place the heatstat into the space that is being heated. The unit will now shut down at the heatstat fixed temperature setting.

NOTE: The heatstat is available with different fixed

temperature settings. An optional 120Vadjustable setting

thermostat is also available.

## **CHANGING BURNERS ON THE BLAZE 2000 D/G**

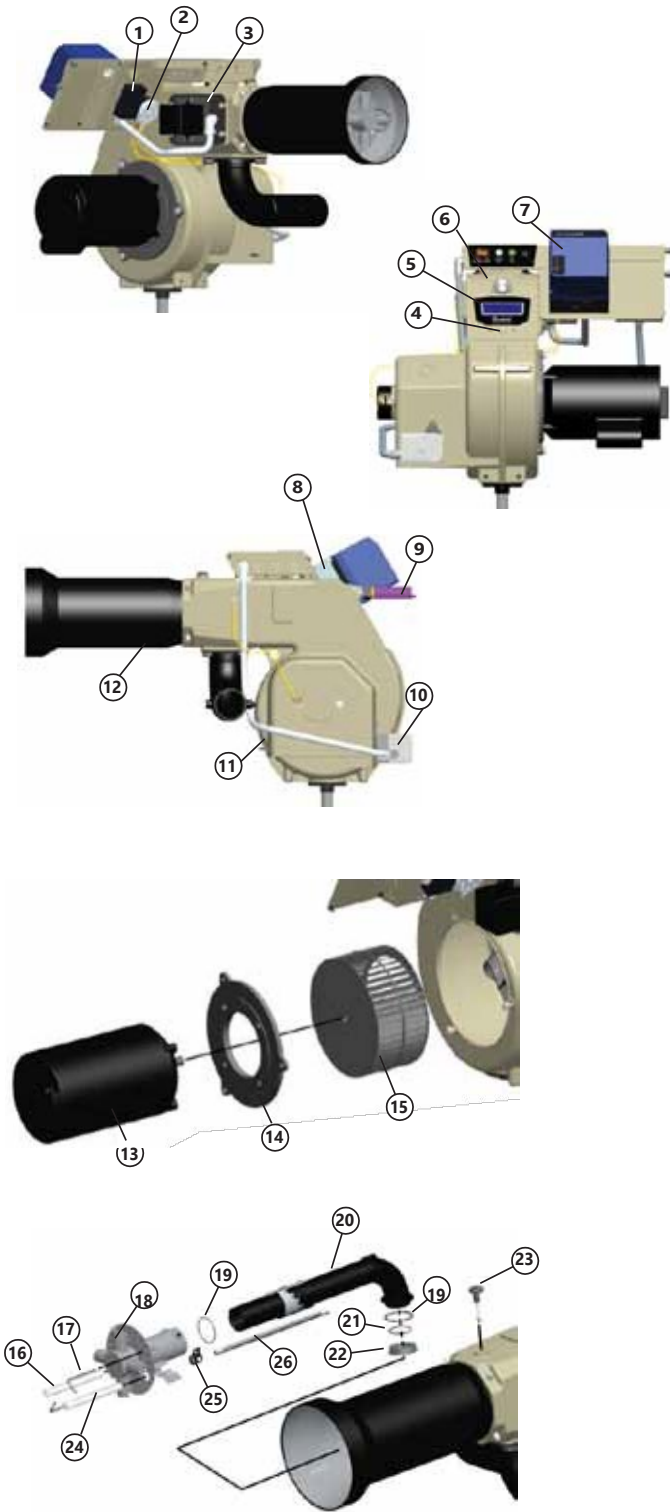
- 1.) MAKE SURE "MAIN SWITCH" IS IN "OFF" POSITION AND DISCONNECT MAIN POWER SUPPLY.
- 2.) IF BECKETT CF2300A OIL BURNER IS CURRENTLY INSTALLED AND GAS OPERATION WITH THE CG25 IS DESIRED DISCONNECT FUEL LINE AT BURNER PUMP "INLET" AND DISCONNECT FUEL LINE FROM "RETURN" PORT ON BURNER PUMP.
- 3.) DISASSEMBLE FILTER BRACKET AND FILTER ENTIRELY FROM BURNER COMPARTMENT.
- 4.) DISCONNECT WIRE HARNESS.
- 5.) REMOVE THE (4) 5/16" NUTS HOLDING THE BURNER.
- 6.) REMOVE ENTIRE BECKETT CF2300A
- 7.) MOUNT CG25 TO (4) 5/16" BOLTS (WITH GAS TRAIN CONNECTED) AND FASTEN (4) 5/16" NUTS.
- 8.) FASTEN GAS TRAIN SUPPORT BRACKET TO INLET SIDE OF TRAIN.
- 9.) CONNECT WIRE HARNESS.
- 10.) SWITCH FROM "OIL" TO "GAS" ON THE MAIN CONTROL PANEL.

REVERSE THE ABOVE STEPS FOR GAS TO OIL OPERATION.

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Item	Description	CG25 Part No.	
1	Timer (if used)	21295U	
2	Air Proving Switch	22181U	
3	Ignition Transformer	7503U	
4	Spring Latch (Dzus Fastener)	32444U	
5	Sight Glass**	31346U	
6	Rear Access Door*	For UV For Flame Rod	5201304U 5201302U
7	Control	Refer to UL Label for Model Numbers	
8	Control Subbase	Refer to UL Label for Model Numbers	
9	UV Sensor	7247U	
10	Damper Motor	Lo/Hi Modulation	750601U 750603U
11	Nylon Bushing	32294U	
12	Air Tube	Specify Model	
13	Motor	115-208-203V 208-230/380-460V 575V	21402U 21499U 21734U
14	Mounting Flange	31347U	
15	Blower Wheel	21267U	
16	Ceramic	3231	
17	Ground Electrode	2191107U	
18	Head, Welded Assembly	Specify Model	
19	O-ring Set (2 included)	3226403U	
20	Gas Tube, Welded Assembly	5193203BKU	
21	Restrictor O-ring (LP Only)	3226402U	
23	Jacking Screw Assembly	5193403U	
24	Ignition Electrode	2191207U	
25	Clamp	4474U	
26	Cable, Ignition Electrode	5990184U	
28	High Gas Pressure Switch	2229402U	

\* Includes Sight Glass, Label, Gaskets, and Fasteners

\*\*Includes Beckett Label and Window Gasket

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Item	Description
1	CONTROL PANEL DOOR
2	GENIYS PRIMARY CONTROLLER
3	RB100 TEMPERATURE CONTROLLER
4	HOUR METER
5	ON/OFF DISCONNECT SWITCH HANDLE
6	THERMOSTAT RECEPTACLE
7	TOGGLE SWITCH ON/ON
8	3 POSITION SWITCH
9	2 POSITION SWITCH
10	RED ILLUMINATED PUSH BUTTON
11	N.O. CONTACT BLOCK
12	PUSH BUTTON WITH LATCH & 120V LAMP
13	LATCH
14	RED LAMP 120V, 1/3W
15	GREEN LAMP 120V, 1/3W
16	AMBER LAMP 120V, 1/3W
17	N.C. CONTACT BLOCK
18	TERMINAL STRIP
19	BACK MOUNTING PLATE
20	3 POLE FUSE HOLDER 60A CLASS J
21	2 POLE FUSE HOLDER
22	1 POLE FUSE HOLDER
23	45A FUSE, 600V TIME DELAY
24	4A FUSE, 250V
25	TILT SWITCH
26	LATCH RELAY 120 VAC
27	Base for latch relay IDEC RH2LB-UA120
28	3 POLE RELAY 120 VAC, 10 AMP
29	2 POLE RELAY 120 VAC, 12 AMP
30	11 PIN RELAY BASE
31	2 POLE RELAY BASE
32	DISCONNECT SWITCH, 3P 63A
33	VFD DRIVE
34	TERMINAL BLOCK
35	TERMINAL END PLATE
36	TERMINAL BLOCK END STOP
37	TERMINAL BLOCK BLANK MARKER CARD OF 100 TAGS
38	TERMINAL BLOCK RAIL (24" LONG)
39	GROUND LUG

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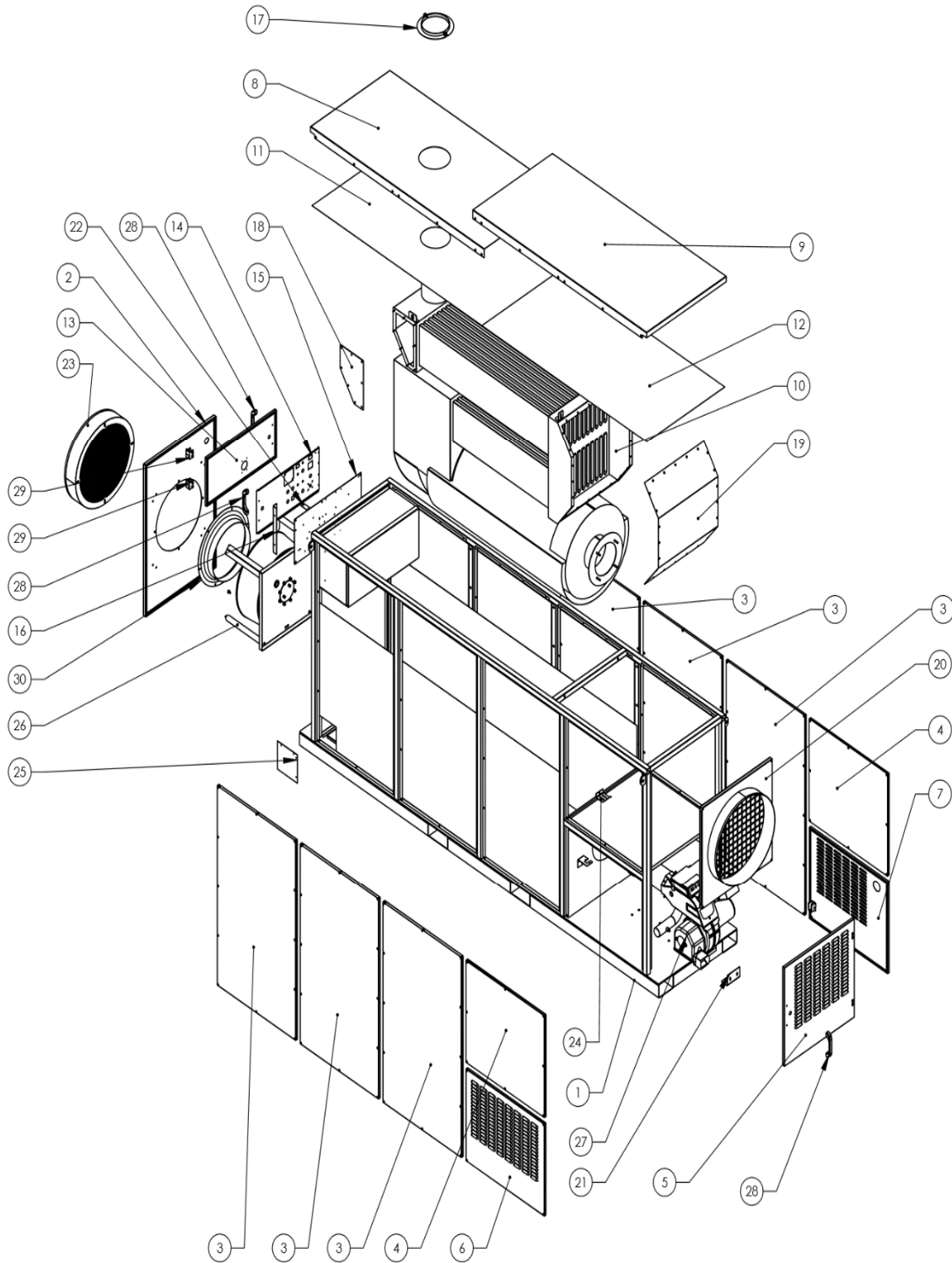
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# ECO BLAZE 2000 D/G

## BLAZE 2000DG PARTS BREAKOUT REV 1

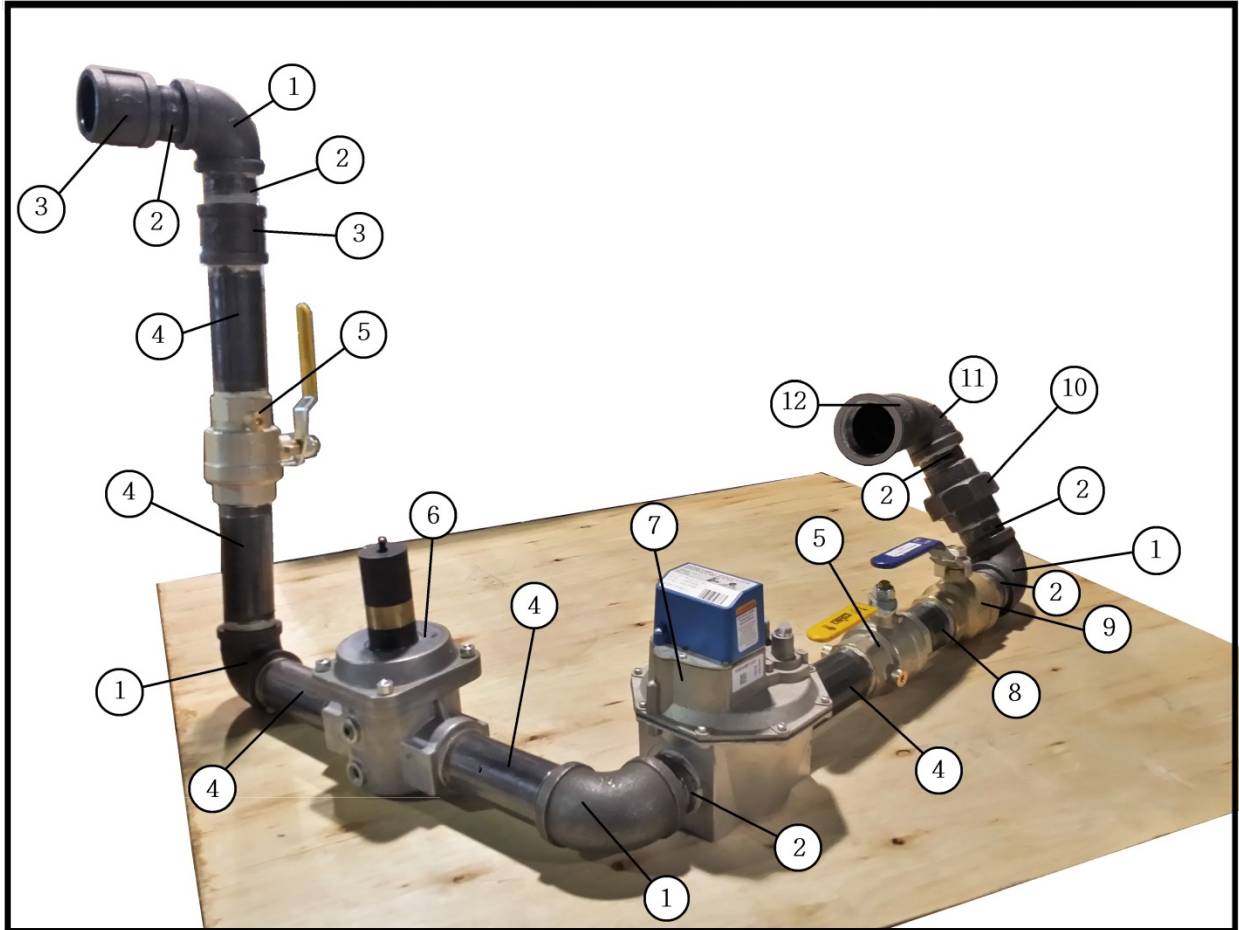


# ECO BLAZE 2000 D/G

POSITION	PART NUMBER	DESCRIPTION	QTY
1	C80063	BLAZE 2000 FRAME WELDMENT	1
2	C80080/C80126	R FAN MOUNTING PLATE/E 560 FAN MOUNT PLATE	1
3	C80064	SIDE PANEL	6
4	C80065/ C80130/C80134	SIDE PANEL/24" SIDE SUPPLY PANEL/20" SIDE SUPPLY PANEL	2
5	C80066	LOUVERED BURNER ACCESS PANEL	1
6	C80067	LOUVERED PANEL	1
7	C80068	LOUVERED PANEL W/GAS TRAIN HOLE	1
8	C80069	TOP COVER W/ FLUE HOLE	1
9	C80070/ C80131/C80133	TOP COVER/TOP COVER W/ 24" SUPPLY PANEL/TOP COVER W/20" SUPPLY PANEL	1
10	C80071	HEAT EXCHANGER	
11	C80072	TOP PANEL W/ FLUE HOLE	1
12	C80073	TOP PANEL	1
13	C80003	PANEL DOOR	1
14	C80020	CONTROL PANEL DOOR	1
15	C80019	CONTROL PANEL BACK PLATE	1
16	C80014	POST LATCH	1
17	C80012	FLUE COLLAR HALF MOON WLDMT	2
18	C80074	HEAT EXCHANGER SIDE CLEAN OUT PANEL	1
19	C80075	HEAT EXCHANGER CLEAN OUT PANEL	1
20	C80076/ C80127/ C80128/ C80129/C80132	24" SUPPLY PANEL/20" SUPPLY PANEL/16" SUPPLY PANEL/4X 12" SUPPLY PANEL/PANEL COVER SUPPLY END	1
21	C80077	BURNER MOUNT BRKT	1
22	C80021	TILT SWITCH BRKT	1
23	C80006	RETURN/SUPPLY RING	1
24	C80078	THERMOCOUPLE MOUNTING PLATE	1
25	C80079	CABLE THROUGH COVER	1
26	C80023/C70136	R FAN/E FAN 560	1
27	C80086/C80099	BLAZE 2000D BECKETT BURNER/BLAZE 2000G BECKETT BURNER	1
28	C70087	GRAB HANDLE	3
29	C70088/C70089	RIGHT SIDE HINGE/NUT PLATE FOR RIGHT SIDE HINGE	4
30	C70135	E FAN INLET CONE 560	

# ECO BLAZE 2000 D/G

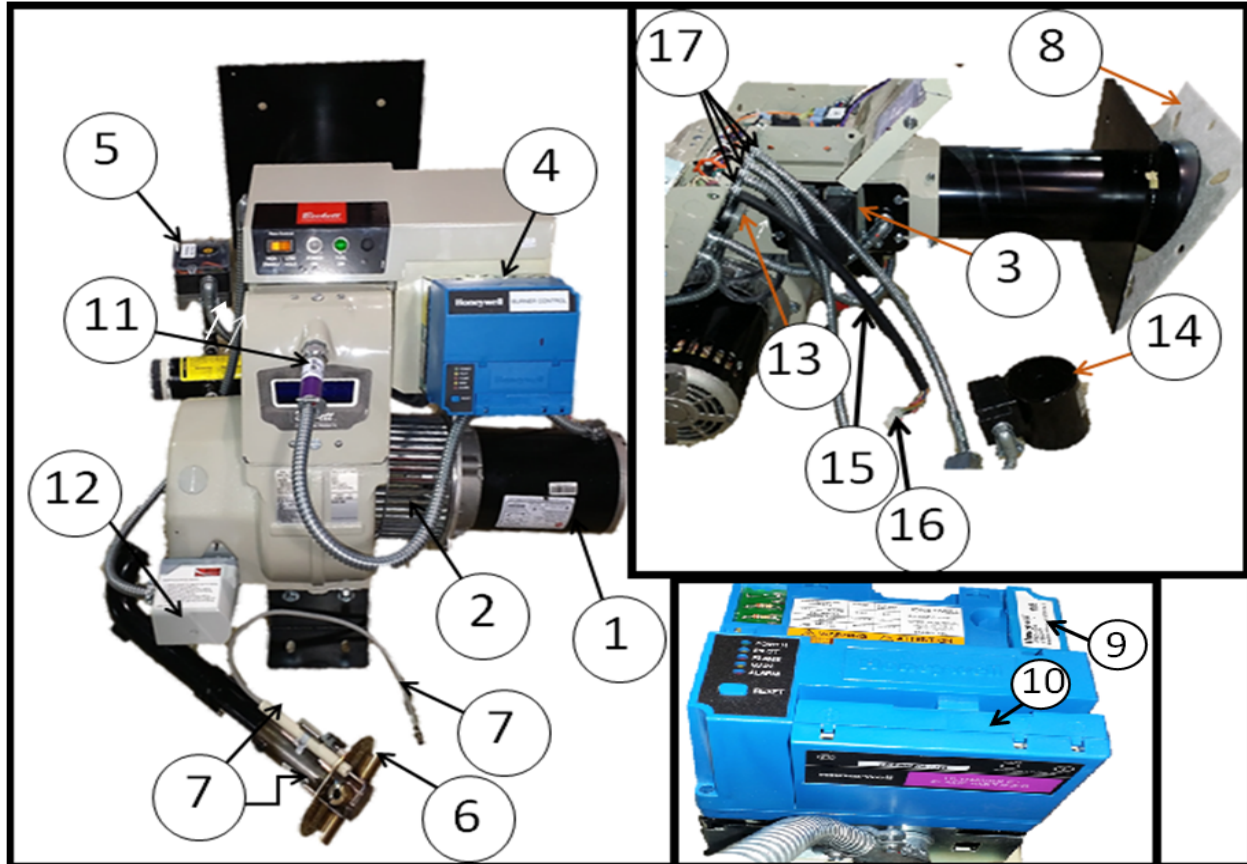
## BLAZE 2000G GAS TRAIN BREAK OUT REV 1



POSITION	PART #	DESCRIPTION	QTY
1	C80114	1.5" ELBOW	4
2	C80115	1.5" X 2" PIPE NIPPLE	6
3	C80116	1.5" COUPLING	2
4	C80117	1.5" X 6" PIPE NIPPLE	5
5	C80118	1.5" BALL VALVE	2
6	C80119	SAFETY VALVE, NC SOLENOID	1
7	C80120	VALVE, 2 STAGE REGULATOR	1
8	C80121	1.5" X 3" PIPE NIPPLE	1
9	C80122	NG/LP EASY SWITCH OVER VALVE	1
10	C80123	1.5" UNION	1
11	C80124	1.5" STREET ELBOW	1
12	C80125	2" X 1.5" REDUCER COUPLING	1

# ECO BLAZE 2000 D/G

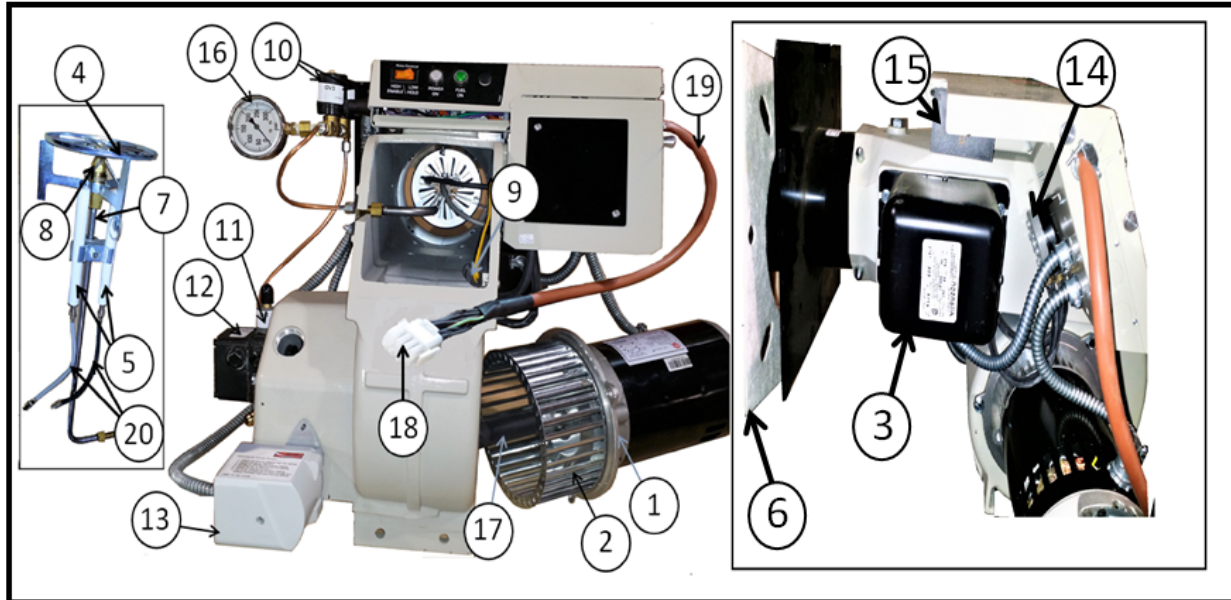
## C80099 BLAZE 2000G BECKETT BURNER BREAK OUT REV 1



POSITION	PART #	DESCRIPTION	QTY
1	C80102	MOTOR	1
2	C80103	BLOWER	1
3	C80104	IGNITER	1
4	C80105	PRIMARY CONTROLLER	1
5	C50251	HIGH PRESSURE SWITCH	1
6	C80107	HEAD ASSEMBLY	1
7	C80108	ELECTRODE, GROUND AND CABLE	1
8	C80109	FLANGE GASKET	1
9	C80110	TIMER PURGE 60 SEC	1
10	C80111	UV AMPLIFER	1
11	C80112	UV DETECTOR	1
12	C80113	DAMPER MOTOR	1
13	C80106	AIR PROVING SWITCH	1
14	C80119	SOLENOID	1
15	C50271	CABLE	1
16	C70110	PLUG, MALE 12 POLE	1
17	C50250	3/8" TWO SCREW CONNECTOR	4
	C80099	BLAZE 2000G BECKETT BURNER	1

# ECO BLAZE 2000 D/G

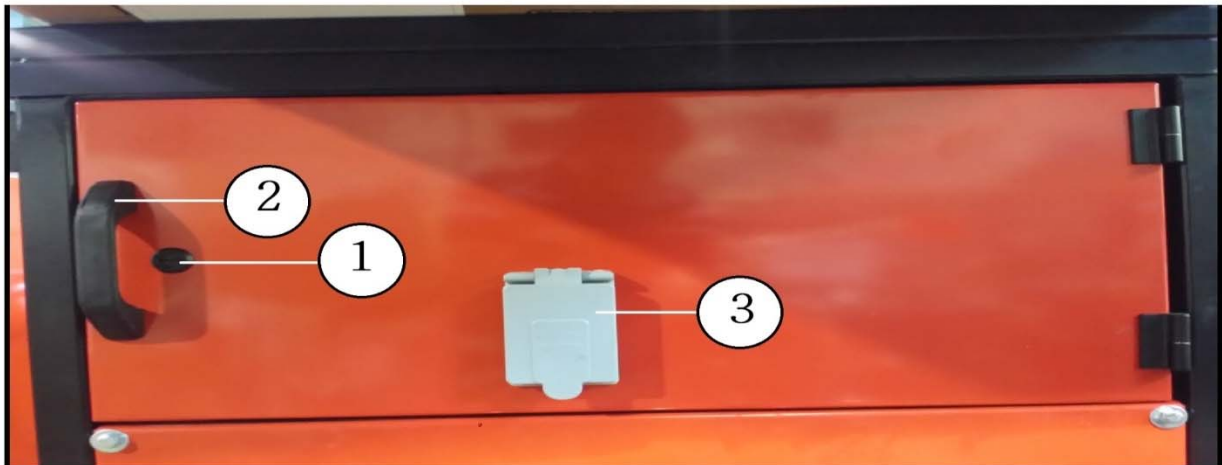
## C80086 BLAZE 2000D BECKETT BURNER BREAK OUT REV 1



POSITION	PART #	DESCRIPTION	QTY
1	C80087	MOTOR	1
2	C80088	BLOWER	1
3	C80089	IGNITER	1
4	C80090	HEAD	1
5	C80091	ELECTRODES	1
6	C80092	FLANGE GASKET	1
7	C80093	NOZZLE LINE HEAD ASSEMBLY	1
8	C80039	NOZZLE, 5.5 X 60 B C/W 100 MESH FILTER	1
9	C40080	CAD CELL	1
10	C40081	SOLENOID VALVE	2
11	C50272	VALVE ON FUEL PUMP	1
12	C80095	FUEL PUMP	1
13	C80096	DAMPER MOTOR	1
14	C80097	AIR PROVING SWITCH	1
15	C80098	TIMER	1
16	C90035	FUEL GAUGE	1
17	C50273	COUPLING	1
18	C70110	PLUG, MALE 12 POLE	1
19	C50274	CABLE	1
20	C50275	CABLES	2
21	C90064	FLARE MALE 90-3/8 T X 1/4 MPT	2
	C80086	BLAZE 2000D BURNER	1

# ECO BLAZE 2000 D/G

## BLAZE 2000DG CONTROL PANEL BREAK OUT REV 1



POSITION	PART #	DESCRIPTION	QTY
1	C70085	¼ TURN LATCH, WITH RUBBER WASHER & NUT	1
2	C70087	GRAB HANDLE	1
3	C70072	FLIP LID COVER HOUSING	1
4	C70088	RIGHT SIDE HINGE	2
5	C70089	NUT PLATE FOR RIGHT SIDE HINGE	2
6	C70084	LATCH,CAM,ZINC	1

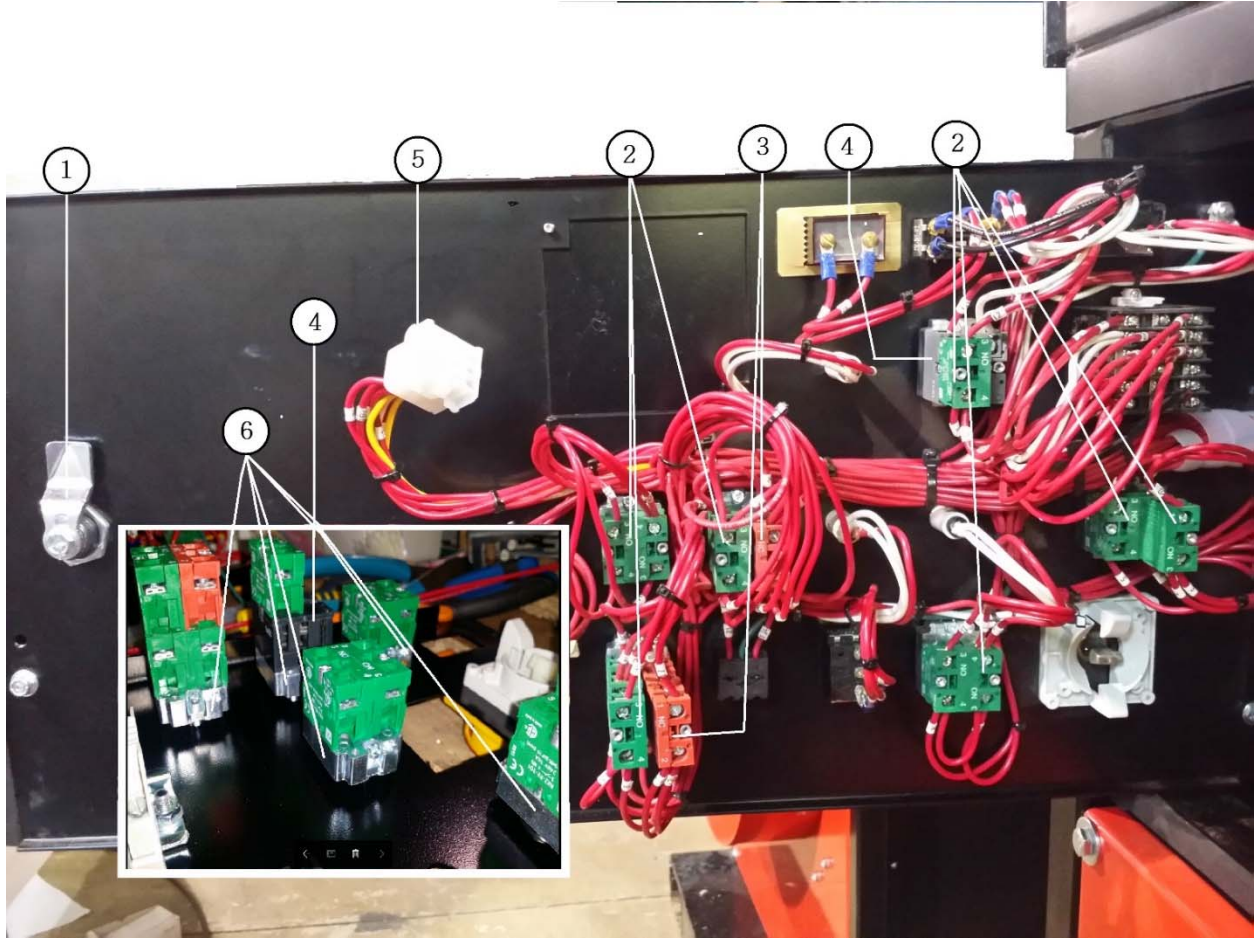


# ECO BLAZE 2000 D/G



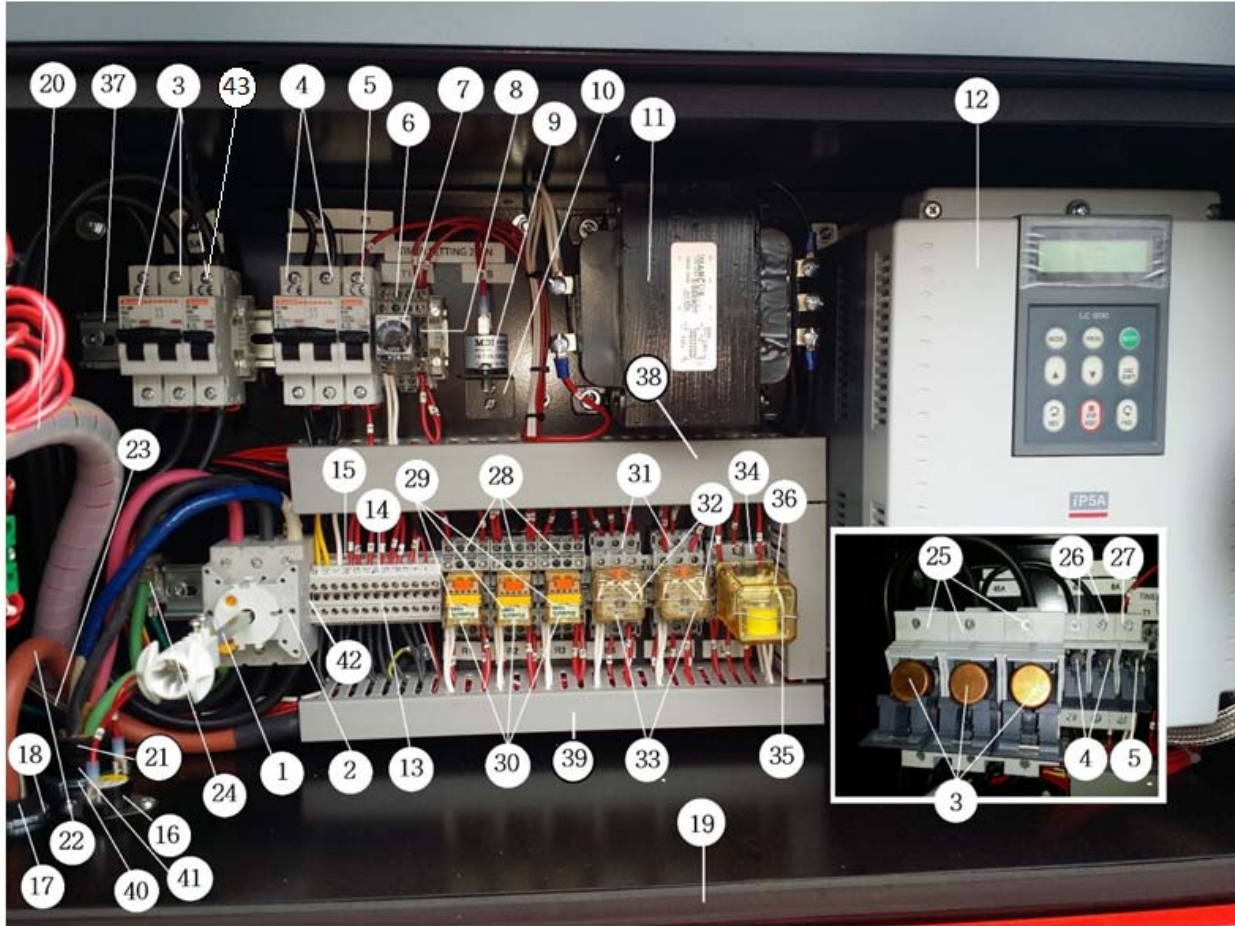
Position	Part #	DESCRIPTION	QTY
1	C80033	ON/OFF YELLOW DISCONNECT SWITCH HANDLE	1
2	C70060	HOUR METER	1
3	C70065	SELECTOR SWITCH	3
4	C70059	TEMPERATURE CONTROLLER	1
5	C70066	RED ILLUMINATED PUSH BUTTON	1
6	C20023	TOGGLE SWITCH	1
7	C70064	SELECTOR SWITCH	2
8	C78889	DIGITAL PANEL MOUNTED VOLTMETER	1
9	C90029	OUTLET FOR PLUG	1
10	C90025	POWER ON INDICATOR LIGHT GREEN	1
11	C90027	BURNER ON INDICATOR LIGHT AMBER	1
12	C70070	INDICATOR LIGHT RED	1
13	C70023	PRIMARY CONTROLLER CUT-OUT COVER	1
14	C70085	¼ TURN LATCH, WITH RUBBER WASHER & NUT	1
15	C70087	GRAB HANDLE	1
16	C70063	TOGGLE	1

# ECO BLAZE 2000 D/G



POSITION	PART #	DESCRIPTION	QTY
1	C70086	LATCH, CAM, ZINC	1
2	C70067	CONTACT BLOCK	13
3	C70071	CONTACT BLOCK	3
4	C70068	PUSH BUTTON WITH LATCH& LAMP	1
5	C70090	PLUG,FEMALE,12 POLE	1
6	C70069	FIXING COLLAR	6

# ECO BLAZE 2000 D/G



POSITION	PART #	DESCRIPTION	QTY
1	C70062	ON/OFF DISCONNECT SHAFT EXTENSION	1
2	C80034	ON/OFF DISCONNECT YELLOW SWITCH BASE 63 AMP	1
3	C50269 OR C80084	63 AMP BREAKER OR 45 AMP,600 VOLT TIME DELAY FUSE	1/3
4	C50276 OR C70034	16 AMP BREAKER OR 4 AMP 250 V TIME DELAY FUSE	1/2
5	C50277 OR C80085	6 AMP BREAKER OR 10 AMP 250 V TIME DELAY FUSE	1/1
6	C70042	RELAY BASE	1
7	C70044	TIMER	1
8	C70045	TIMER HOLD DOWN SPRING	2
9	C70052	TILT SWITCH	1
10	C80021	TILT SWITCH BRACKET	1
11	C80082	CONTROL TRANSFORMER	1
12	C80025	VFD	1
13	C70046	TERMINAL BLOCK	1
14	C70049	TERMINAL BLOCK BLANK MARKER,100 TAGS PER CARD	1
15	C70050	TERMINAL BLOCK RAIL	1

# ECO BLAZE 2000 D/G

16	C80031	SNAP DISC FAN CONTROL	1
17	C70080	3/4" LIQUID TIGHT	2
18	C70081	3/4" NUT FOR LIQUID TIGHT	2
19	C70082	DOOR GASKET 1/4" X 1/2"	
20	C70057	FG TAPE	
21	C80032	AC POWER CAB TAR CABLE, 4 CONDUCTOR #6 GA.WIRE	
22	C70078	16 AWG 12 COND HIGH TEMP CABLE	
23	C50297	THERMOCOUPLE ASSEMBLY	1
24	C70051	GROUND LUG	1
25	C80027	FUSE HOLDER	1
26	C70031	FUSE HOLDER	1
27	C70032	FUSE HOLDER	1
28	C70042	RELAY BASE	3
29	C70043	RELAY HOLD DOWN SPRING, FOR 2 POLE RELAY	3
30	C70041	RELAY	3
31	C70039	RELAY BASE	2
32	C70040	RELAY HOLD DOWN SPRING, FOR 3 POLE RELAY	2
33	C70038	RELAY	2
34	C70036	RELAY BASE	1
35	C70037	RELAY HOLD DOWN SPRING, FOR LATCHING RELAY	1
36	C70035	LATCH RELAY	1
37	C70050	TERMINAL BLOCK RAIL	1
38	C80029	WIRE DUCT WITH COVER	1
39	C80030	WIRE DUCT WITH COVER	2
40	C80037	1 1/4" NUT FOR LIQUID TIGHT	1
41	C80036	1 1/4" LIQUID TIGHT	1
42	C70047	TERMINAL BLOCK END PLATE	1
43	C50270	1 POLE 63A BREAKER	1

## OPTIONAL PARTS

Part #	DESCRIPTION
C80148	KEYPAD FOR VFD
C70048	TERMINAL BLOCK END STOP
C70075	3/4" FIRESLEEVE
C80035	1" FIRESLEEVE
C70079	2'X4' SHEETS OF INSULATION
C70083	DOOR GASKET 1/8" X 1/2"
C70091	PIN, FEMALE
C70092	PIN, MALE
C7505P4530	PRIMARY CONTROLLER
C90086	GENISYS DISPLAY MODULE
C70110	MALE PLUG
C70090	PLUG, FEMALE, 12 POLE
C70091	PIN, FEMALE



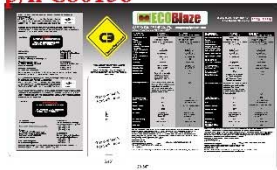
# ECO BLAZE 2000 D/G

C90023	FILTER
C90024	FILTER HEAD
7505P4530U	PRIMARY CONTROLLER
70115	1/4" CONVOLUTED (PLASTIC COVER FOR IGNITION WIRE)
C80100	(1) SOLENOID VALVE, (1) 2 STAGE VALVE, REGULATOR WITH (2) MANUAL SHUT OFF VALVES, PRESSURE SWITCH
C80101	1.5" SPLIT RING PIPE HANGAR
C70119	3/8" THREADED ROD
C80135	THERMOCOUPLE ASSEMBLY
C70139	TOGGLE SWITCH 1 POLE, ON/ON
C70140	TOGGLE SWITCH
C70141	TEMPERATURE CONTROLLER HOUSING

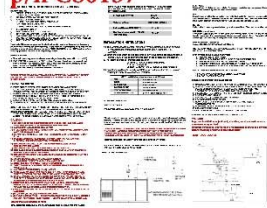
## BLAZE 2000DG DECAL KIT BREAK OUT REV 1

### p/n C80081 COMPLETE KIT

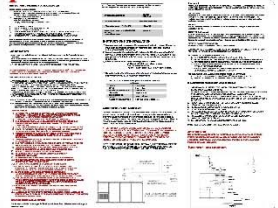
p/n C80136



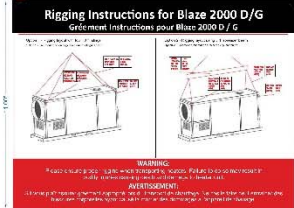
p/n C80137



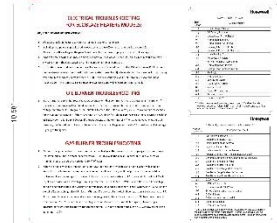
p/n C80138



p/n C80139



p/n C80140



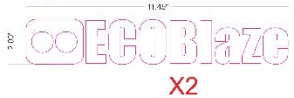
p/n C80141



p/n C80145



p/n C80146



p/n C80142

EASY LP/NG SWITCH OVER  
BLUE HANDLE BALL VALVE ON  
GAS MANIFOLD.  
  
CLOSED POSITION: PROPANE  
OPEN POSITION: NATURAL GAS

3.75"

p/n C80143

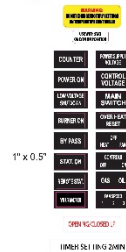
**WARNING**  
RE: Control Transformer  
CHANGE TAPS AS PER VOLTAGE  
  
240V  
TOP TAP H3  
  
208V  
CENTER TAP H2

3.75"

p/n C80144



p/n C80147



# ECO BLAZE 2000 D/G

<b>Part Number</b>	<b>DESCRIPTION</b>
C80081	Blaze 2000DG Decal Kit
C80136	Serial Number (variable data)
C80137	English Instructions
C80138	French Instructions
C80139	Rigging Instructions
C80140	Quick set up guide
C80141	Warning - Large
C80142	Easy NG/LP Switch
C80143	WARNING - Small
C80144	Campo Logo
C80145	BLAZE 2000 DG
C80146	ECOBLAZE
C80147	Control Panel Decals