

Beckett

CORPORATION

RESIDENTIAL & COMMERCIAL HEATING PRODUCTS

CG4 Gas Burner

Appliance Guide



Before Calling a Manufacturer's Tech Service . . .

Before contacting us about your burner, you must have a completed copy of the Contractor Start-Up Form (located inside last page). This information is crucial for troubleshooting and obtaining the correct replacement parts.

WARNING

Professional Service Required



Failure to follow these recommended settings could lead to equipment malfunction and result in asphyxiation, explosion or fire.

- Please read the CG4 manual before proceeding. Follow all instructions completely.
- This equipment must be installed, adjusted and started by a qualified service agency that is licensed and experienced with all applicable codes and ordinances and responsible for the installation and commissioning of the equipment.
- The installation must comply with all local codes and ordinances having jurisdiction and the latest edition of the National Fuel Gas Code ANSI Z223.1 (NFPA 54) and CAN1-B149.1 in Canada.

NOTICE

*Appliances have been tested or verified by Beckett but **NOT** tested or endorsed by the appliance manufacturer, unless noted. These settings are not intended to supersede the appliance manufacturer's published specifications. Always follow the appliance manufacturer's published instructions and recommendations.*

NOTICE

The recommended air settings are intended for use only as a starting point for burner adjustments. The settings cannot make provisions for all installation possibilities. It is important that the burner is adjusted to the installation requirements using properly calibrated flue gas analysis instruments.

NOTICE

Always use calibrated test instruments to set combustion levels. Verify that test instruments are calibrated and in good working condition. If not already provided, drill test access holes in the flue pipe near the breach (or upstream of the boiler breach damper, if applicable) and in the front mounting plate area for firebox pressure. Be careful not to damage any water-backed surface.

For technical assistance please call 1-800-645-2876 (8:00am - 5:00pm EST, Mon-Fri)

ANSI Z21.17a Gas Conversion Burner Standard, requires specific warnings to be placed on the cover of all instruction manuals for gas conversion burners. Below are examples of these types of warnings which must be understood and followed.

WARNING

Fire or Explosion Hazard



Can cause severe injury, death or property damage

If the information in these instructions is not followed exactly, a fire or explosion may result causing personal injury, death or property damage.

- ***Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.***
- ***WHAT TO DO IF YOU SMELL GAS***
 - Do not try to light any appliance
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- ***Installation and service must be performed by a qualified installer, service agency or the gas supplier.***

WARNING

Fire, Explosion or Carbon Monoxide Poisoning Hazard



Can cause severe injury, death or property damage

This conversion kit must be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction (in Canada, in accordance with the requirements of the CAN/CGA-B149 Installation Codes). If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

CG4 Gas Burner Approvals

The Beckett CG4 Gas Burner has been evaluated by UL and certified to meet the standards for Domestic Gas Conversion Burners for the US and for Canada. The applicable standards met are ANSI Z21.17a-1998 and CSA 2.7-M98 (AMERICAN NATIONAL STANDARD/CSA STANDARD FOR DOMESTIC GAS CONVERSION BURNERS) and they address the burner requirements for the conversion of oil-fired appliances to gas. The CG4 carries the cULus listing mark and is listed under UL file MH60758 for both Domestic Gas Conversion Burner and Domestic Gas Conversion Burner Certified for Canada.

The nature of residential oil appliance fuel conversions makes it impractical to retest and certify the oil appliance for power gas burners. ANSI Z21.17a was developed to provide the requirements for a gas burner that can be used to convert an oil-fired appliance to a gas-fired appliance. ANSI Z21.17a is referenced for oil to gas burner conversions by recognized national codes, such as NFPA 54 and the International Mechanical Code.

Beckett has designed and tested the CG4 to meet ANSI Z21.17a when the burner is installed to our requirements, which are found in the Installation and Operation (I&O) Manual for our respective burner. The I&O Manual is written to the referenced installation standards of ANSI Z21.8 (AMERICAN NATIONAL STANDARD INSTALLATION OF DOMESTIC GAS CONVERSION BURNERS). Local inspectors shall require the contractor to meet local codes and/or ANSI Z21.8, whichever is most restrictive and any additional manufacturer's requirements as identified in the I&O Manual. These steps will satisfy building and occupant safety with respect to the installation of our conversion burner. Heat exchanger warranties are at the sole discretion of the appliance manufacturer. Most maintain the warranty when converted to gas.

Beckett has a growing list of appliances which have successfully been evaluated or verified for conversion to a CG4 gas burner in our application lab. The Beckett manual clearly states:

- "This equipment must be installed, adjusted and started by a qualified service agency that is licensed and experienced with all applicable codes and ordinances and responsible for the installation and commissioning of the equipment."
- "Use test instruments to set combustion" and follow the recommended procedure to attain combustion readings to which the CG4 should be set.

Included with each burner is a tag to be completed by the contractor once the installation is finished. It is imperative that the tag be completed in its entirety by the installer, detailing the appliance and burner information, as well as combustion readings and chimney information. This tag should be referred to during all inspections as well as any time the burner is serviced.

The application testing process verifies the following burner performance criteria as tested on each approved appliance:

- Standard firing rate within the appliance manufacturer's input rating
- Low air setting performance
- High air setting performance and ignition at high air
- Performance at recommended air setting
- Positive chimney draft (+0.1" w.c.) performance at standard air setting
- Negative chimney draft (-0.1" w.c.) performance at standard air setting
- Acceptable stack temperature above 325°F at 90% reduced input rate
- Cold air operation at standard air setting

Safety Check-off List

Recommendations

- Follow installation manual instructions.
- Verify incoming gas pressure.
- Verify the BTU rating of gas meter.
- Verify that the pipe size meets the input BTU rating of the appliance
- Verify combustion air supply meets code requirements (consult local authorities for prevailing codes).
- Verify that area around appliance is free of lint or pet hair.
- Verify condition and size of chimney and venting. Venting must comply with code, including construction, size and liner requirements.
- Verify condition and routing of flue pipe. Total length should be as short as possible (note the quantity of elbows, tees, and location of draft regulators).
- Verify type of draft regulator.
- Verify clearances to combustibles, including chimney connector, burner, and appliance.
- NOTICE:** A manometer and combustion analyzer are required tools for proper installation and adjustment.

When Converting from Oil to Gas

- Thoroughly clean heat exchanger of appliance.
- Replace chamber kit.
- Seal up boiler sections, clean out plates and boiler mounting plate.
- Install double action draft regulator.
- Install thermal safety switch (ex. Field Controls GSK-3 or similar).
- Adjust burner to operate at no less than 90% of input of the appliance rating plate (GPH x 140,000 x .9 = lowest BTU firing rate).
- Verify stack temperature is at a minimum of 325°F or appliance manufacturer's recommended setting.
- Be aware that failure to maintain proper stack temperature could result in condensed flue gas and cause chimney damage which could result in CO leakage into dwelling.

CG4 Gas Burner

Buderus

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
G115-3	96,000	90,000	CG4001	CG4BUF3	F3G	5.25"	0.234	0.177	5880	S-7 / B-0	Blank	1, 3
G115-4	126,000	130,000	CG4001	CG4BUF3	F3G	5.25"	0.364	0.234	None	S-5 / B-0	4 - Slot	1, 3
G115-5	154,000	145,000	CG4001	CG4BUF4	F4G	5.25"	0.316	0.234	5880	S-10 / B-1	4 - Slot	3

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
G215-3	154,000	145,000	CG4001	CG4BUF4	F4G	5.25"	0.316	0.234	None	S-5 / B-0	4 - Slot	2
G215-4	196,000	190,000	CG4001	CG4BUF6	F6G	5.25"	0.354	0.256	None	S-8 / B-0	4 - Slot	2

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
V83	105,000	110,000	CG4001	CG4MUF3	F3G	1.75"	0.277	0.206	5880	S-7 / B-0	Blank	1
V83	147,000	145,000	CG4001	CG4MUF4	F4G	1.75"	0.316	0.234	5880	S-10 / B-0	4 - Slot	
V84	147,000	160,000	CG4001	CG4MUF4	F4G	1.75"	0.348	0.246	5880	S-10 / B-0	4 - Slot	
V84	189,000	175,000	CG4001	CG4MUF4	F4G	1.75"	0.406	0.261	None	S-6 / B-0	4 - Slot	
V85	189,000	190,000	CG4001	CG4MUF6	F6G	1.75"	0.354	0.256	None	S-8 / B-0	4 - Slot	
V85	231,000	220,000	CG4001	CG4MUF6	F6G	1.75"	0.422	0.281	None	S-9 / B-0	4 - Slot	

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
MPO147	147,000	145,000	CG4001	CG4BMPOF4	F4G	2.00"	0.316	0.234	5880	S-6 / B-0	4 - Slot	2
MPO189	189,000	190,000	CG4001	CG4BMPOF4	F4G	2.00"	None	0.281	None	S-10 / B-1	4 - Slot	2

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
TWZ075	105,000	110,000	CG4001	CG4SFF3	F3G	1.75"	0.277	0.206	5880	S-7 / B-0	Blank	1
TWZ100	140,000	140,000	CG4001	CG4SFF3	F3G	1.75"	N/A	0.242	None	S-7-1/2 / B-0	4 - Slot	1
TWZ125	175,000	160,000	CG4001	CG4SFF4	F4G	1.75"	0.348	0.246	None	S-6-1/2 / B-0	4 - Slot	
TWZ175	245,000	220,000	CG4001	CG4SFF6	F6G	1.75"	0.422	0.281	None	S-9 / B-0	4 - Slot	

CG4 Gas Burner

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
KSZ075	105,000	110,000	CG4001	CG4SFF3	F3G	1.75"	0.277	0.206	5880	S-7 / B-0	Blank	1
KSZ100	140,000	140,000	CG4001	CG4SFF3	F3G	1.75"	None	0.242	None	S-7-1/2 / B-0	4 - Slot	1
KSZ125	175,000	160,000	CG4001	CG4SFF4	F4G	1.75"	0.348	0.246	None	S-6-1/2 / B-0	4 - Slot	
KSZ175	245,000	220,000	CG4001	CG4SFF6	F6G	1.75"	0.422	0.281	None	S-9 / B-0	4 - Slot	

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
FWZ100	140,000	145,000	CG4001	CG4BMPOF4	F4G	2.00"	0.316	0.234	5880	S-6 / B-0	4 - Slot	2
FWZ130	182,000	190,000	CG4001	CG4BMPOF4	F4G	2.00"	None	0.281	None	S-10 / B-1	4 - Slot	2

Peerless

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
WBV-3 - 085	119,000	120,000	CG4001	CG4PBF3	F3G	2.50"	0.316	0.219	None	S-3.5 / B-0	4 - slot	1
WBV-3 - 105	147,000	140,000	CG4001	CG4PBF3	F3G	2.50"	None	0.242	None	S-7 / B-0	4 - slot	1
WBV-4 - 125	175,000	175,000	CG4001	CG4PBF4	F4G	2.50"	0.406	0.261	None	S-8 / B-0	4 - slot	
WBV-4 - 150	210,000	190,000	CG4001	CG4PBF4	F4G	2.50"	None	0.281	None	S-10 / B-0	4 - slot	

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
EC-3	140,000	140,000	CG4001	CG4PBF3	F3G	2.50"	None	0.242	None	S-7 / B-0	4 - slot	1
EC-4	175,000	190,000	CG4001	CG4PBF4	F4G	2.50"	None	0.281	None	S-10 / B-2	4 - slot	
EC-5	280,000	250,000	CG4001	CG4PBF6	F6G	2.50"	None	0.312	None	S-10 / B-4	4 - slot	

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
FR-98	119,000	120,000	CG4001	CG4MUF3	F3G	1.75"	0.316	.219	5880	S-8 / B-0	4 - slot	1
FR-122	154,000	140,000	CG4001	CG4MUF3	F3G	1.75"	None	.242	None	S-7 / B-0	4 - slot	1
HGSI	140,000	140,000	CG4001	CG4MUF3	F3G	1.75"	None	.242	None	S-7 / B-0	4 - slot	1

CG4 Gas Burner

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
CL3	140,000	110,000	CG4001	CG4SFF3	F3G	1.75"	0.277	0.206	5880	S-7 / B-0	Blank	1
CL4	175,000	160,000	CG4001	CG4SFF4	F4G	1.75"	0.348	0.246	None	S-6-1/2 / B-0	4 - Slot	
CL5	245,000	220,000	CG4001	CG4SFF6	F6G	1.75"	0.422	0.281	None	S-9 / B-0	4 - Slot	

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
CI-HGS-127	147,000	145,000	CG4001	CG4BMPOF4	F4G	2.00"	0.316	0.234	5880	S-6 / B-0	4 - Slot	2
CI-HGS-163	189,000	190,000	CG4001	CG4BMPOF4	F4G	2.00"	None	0.281	None	S-10 / B-1	4 - Slot	2

Weil-McLain Gold

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
GO3R	112,000	120,000	CG4001	CG4WMF3	F3G	3.00"	0.316	0.219	5880	S-9 / B-0	4 - slot	1
GO3	133,000	130,000	CG4001	CG4WMF3	F3G	3.00"	0.364	0.234	None	S-6 / B-0	4 - slot	1
GO4R	140,000	145,000	CG4001	CG4WMF4	F4G	3.00"	0.316	0.234	5880	S-10 / B-1	4 - slot	
GO4	168,000	160,000	CG4001	CG4WMF4	F4G	3.00"	0.348	0.246	None	S-6.5 / B-0	4 - slot	
GO5R	168,000	175,000	CG4001	CG4WMF4	F4G	3.00"	0.406	0.261	None	S-7.5 / B-0	4 - slot	
GO5	203,000	190,000	CG4001	CG4WMF4	F4G	3.00"	None	0.281	None	S-10 / B-0	4 - slot	

Weil-McLain Ultra

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
UO3	140,000	140,000	CG4001	CG4MUF3	F3G	1.75"	None	0.242	None	S-8 / B-0	4 - slot	1, 2
UO4	160,000	160,000	CG4001	CG4MUF4	F4G	1.75"	0.348	0.246	None	S-7 / B-0	4 - slot	2
UO5	196,000	190,000	CG4001	CG4MUF4	F4G	1.75"	None	0.281	None	S-10 / B-2	4 - slot	2

CG4 Gas Burner

Slant/Fin Intrepid

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
TR-30	140,000	140,000	CG4001	CG4SFF3	F3G	1.75"	None	0.242	None	S-8 / B-0	4 - slot	1
TR-40	210,000	190,000	CG4001	CG4SFF4	F4G	1.75"	None	0.281	None	S-10 / B-3	4 - slot	

Utica Starfire

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
SFH-3085W	119,000	120,000	CG4001	CG4UTF3	F3G	2.25"	0.316	0.219	5880	S-10 / B-1	4 - slot	1
SFH-3100W	140,000	140,000	CG4001	CG4UTF3	F3G	2.25"	None	0.242	None	S-10 / B-0	4 - slot	1
SFH-4100W	140,000	145,000	CG4001	CG4UTF4	F4G	2.25"	0.316	0.234	5880	S-10 / B-3	4 - slot	

Williamson

Appliance	Appliance Input BTU	Beckett Required Input BTU	Burner Chassis Part #	Air Tube Combination Part #	Head	Insertion	NG Orifice Size	LP Orifice Size	Baffle	Air Settings Shutter /Band	Air Band PN / Slot Number	Notes
OWB/OWT-4	140,000	145,000	CG4001	CG4WMF4	F4G	3.00"	0.316	0.234	5880	S-10 / B-1	4 - slot	
OWB/OWT-4	168,000	160,000	CG4001	CG4WMF4	F4G	3.00"	0.348	0.246	None	S-6.5 / B-0	4 - slot	
OWB/OWT-5	168,000	175,000	CG4001	CG4WMF4	F4G	3.00"	0.406	0.261	None	S-7.5 / B-0	4 - slot	
OWB/OWT-5	203,000	190,000	CG4001	CG4WMF4	F4G	3.00"	None	0.281	None	S-10 / B-0	4 - slot	

Notes Legend:

- 1) Blank Air Band included with Air Tube Combination.
- 2) Heat Exchanger Baffles Must Be Removed to Achieve Appropriate Flue Temperature Above 325°F.
- 3) Chimney vent applications only.

See Manual for operating pressure requirements.

Contractor Start-Up Form

Installation Name: _____ Installation Date: _____

Installation Address: _____

Start-Up Contractor's Name _____ Phone: _____

Name of Technician _____

■ **Appliance** *(Information below can be obtained from appliance name plate)*

Manufacturer: _____

Type (circle one): [**Boiler / Furnace / Other**] Model #: _____ Serial #: _____

Input MBH: _____ Original Appliance Designed for (circle one): [**Oil / Natural Gas / Propane**]

Output MBH: _____

Limits	Limit Model No. <small>(Indicate n/a if not required by the appliance manuf.)</small>	Operation Verified
Temperature		YES / NO
Pressure		YES / NO
LWCO		YES / NO
Other Limits		YES / NO / n/a

■ **Burner**

Fuel: [**Natural Gas / Propane**] Model #: _____ Serial #: _____

Combustion Head: [**F3G / F4G / F6G**] Fuel Orifice Size: _____ Air Shutter Setting: _____

Air Band Setting: _____ [**or Blank Band Installed**] Baffle: [**Installed / Not Required**]

■ **Chimney/Smoke Pipe**

Chimney Type: [**Masonry / Metal Vent / Direct Vent**] Location (circle one): [**Inside / Outside**]

Chimney Height: _____ Flue Pipe Size: _____ Flue Pipe Length: _____

Number of Elbows: _____ Confirm Double Acting Draft Regulator Installed: [**Yes / No**]

Thermal Safety Switch Installed [**Yes / No**] Voltage: [**120V / 24V**]

Gas Supply Piping

Pipe Diameter: _____ Length of Pipe from Burner to Meter: _____ Number of Elbows: _____

Gas Pressure to Burner Gas Valve While Burner is Operating _____ Inches W.C.

■ **Combustion Readings**

O₂: _____% CO: _____ PPM CO₂: _____% Stack Temperature (325°F MIN.): _____°F

Manifold Gas Pressure: _____ (Inches W.C.) Draft at Breach _____ W.C.

Limited Warranty Information

The R. W. BECKETT CORPORATION (“Beckett”) warrants to persons who purchase its “Products” from Beckett for resale, or for incorporation into a product for resale (“Customers”), that its equipment is free from defects in material and workmanship. To qualify for warranty benefits, products must be installed by a qualified service agency in full compliance with all codes and authorities having jurisdiction, and used within the tolerances of Beckett’s defined product specifications.

To review the complete warranty policy and duration of coverage for a specific product, or to obtain a written copy of warranty form 61545, please choose one of the following options:

- 1. Visit our website at: www.beckettcorp.com/warranty***
- 2. Email your request to: rwb-customer-service@beckettcorp.com***
- 3. Write to: R. W. Beckett Corporation, P. O. Box 1289, Elyria, OH 44036***

NOTE: Beckett is not responsible for any labor cost for removal and replacement of equipment.

THIS WARRANTY IS LIMITED TO THE PRECISE TERMS SET FORTH ABOVE, AND PROVIDES EXCLUSIVE REMEDIES EXPRESSLY IN LIEU OF ALL OTHER REMEDIES, AND IN PARTICULAR THERE SHALL BE EXCLUDED THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL BECKETT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE OF ANY NATURE. Beckett neither assumes, nor authorizes any person to assume for Beckett, any other liability or obligation in connection with the sale of this equipment. Beckett’s liability and Customer’s exclusive remedy is limited to the cost of the product.



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