



MODEL **201GAS**  
Power Gas Burner  
150,000 To 399,000 BTUH

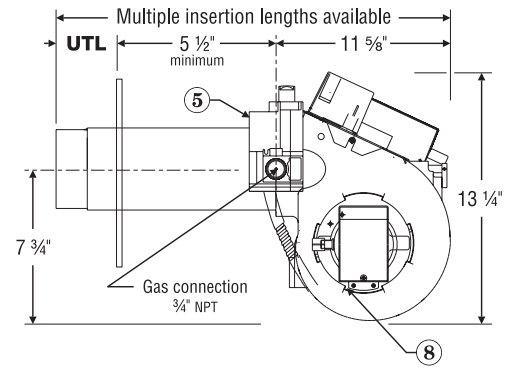
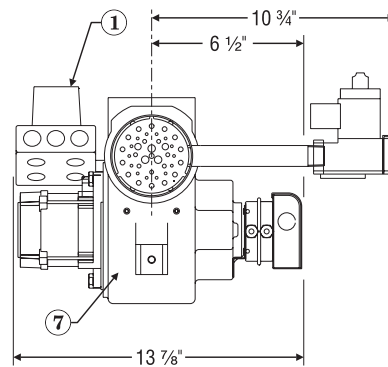
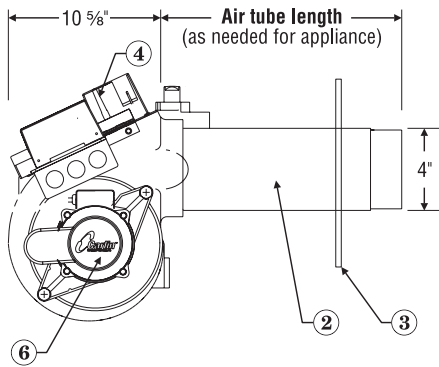
The IDEAL  
burner  
for even the  
toughest  
applications



**CARLIN. THE TECHNOLOGY LEADER.**



# Carlin 201GAS Power Gas Burner



- ① Carlin 60200FR microprocessor control      ② Air tube      ③ Flange (selected to meet appliance requirements)      ④ Carlin 41800 solid state ignitor  
 ⑤ Combination gas valve      ⑥ Carlin PSC motor      ⑦ Cast aluminum blower housing      ⑧ Air flow proving switch

## Features

- Converts from propane to natural gas with just an orifice change — no conversion kit needed
- Fires negative or positive chambers from 150,000 to 399,000 Btuh input
- Provides dependable, direct-spark ignition of main flame — for quick, clean light-offs
- Comes standard with time-tested solid state ignition and state-of-the-art microprocessor control technology
- Factory-packaged with combustion control and gas fuel train
- Shipped completely assembled and wired — for easy installation and start-up
- Diagnostic LED lights annunciate operating mode: Self-check, Flame-on, Recycle, Lockout and Latch-up
- High-efficiency, compact flame pattern design ensures clean, quiet operation
- Does not require a refractory liner — fires with or without a combustion chamber
- Available with custom welded air tube flange (and/or optional pedestal) to accommodate most appliance mounting requirements
- Includes 1-year warranty

## Specifications

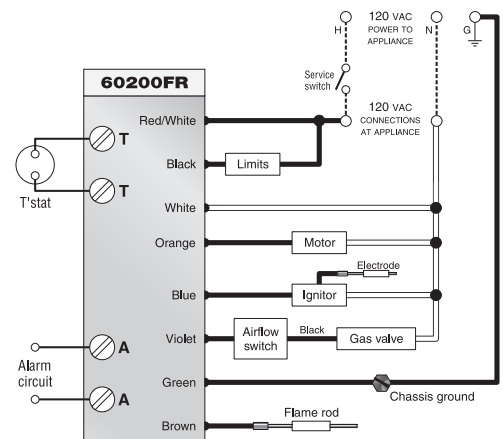
- Input**  
 .....201GAS  
 150,000 to 399,000 Btuh
- Fuels**  
 .....  
 Natural gas or propane gas  
 Maximum supply pressure..... 14 inches w.c.  
 Minimum supply pressure ..... 5.0 inches w.c.  
 Manifold pressure ..... 3.5 inches w.c.
- Electrical**  
 Power..... 120 VAC/60 HZ/1-PHASE  
 Limit circuit input..... 120 VAC/60 HZ  
 Motor..... 1/6 or 1/4 HP, 3450 RPM  
 Current ..... Approx. 2.5 or 4.4 AMPS  
 Fuel valve power..... 120 VAC/60 HZ
- Ignition**  
 Carlin Model 41800 solid state electronic ignitor  
 Ignition voltage ..... 9,000 VOLTS
- Control**  
 ..... Carlin Model 60200FR microprocessor control
- 4-sec. Trial for ignition (TFI)
  - 1.3-sec. FFRT
  - Pre-purge and post-purge
  - Serviceman reset protection (Latch-up after three consecutive lockouts)
  - Interrupted duty ignition
  - Recycle on flame failure
- Agencies**  
 UL Listed (United States)  
 ..... per ANSI Z21.17

## Orifice selection

| Input<br>Btuh | Orifice drill size |             | Air Band       |          |                |
|---------------|--------------------|-------------|----------------|----------|----------------|
|               | Natural gas        | Propane gas | Slots          | Diffuser | Setting (note) |
| 150,000       | 9/32               | 7/32        | 2 with shutter | C        | 15%            |
| 175,000       | 5/16               | 1/4         |                | C        | 30%            |
| 200,000       | 11/32              | 9/32        |                | C        | 60%            |
| 225,000       | 11/32              | 9/32        | 2              | B        | 8%             |
| 250,000       | 3/8                | 5/16        |                | B        | 25%            |
| 275,000       | 13/32              | 5/16        |                | B        | 40%            |
| 300,000       | 7/16               | 11/32       | 4              | B        | 70%            |
|               | 13/32              | 5/16        |                | A        | 15%            |
| 350,000       | 15/32              | 11/32       |                | A        | 35%            |
| 399,000       | 9/16               | 7/16        |                | A        | 80%            |

Note: Air band setting is approximate only. Follow burner manual and appliance manual instructions to adjust burner using combustion test instruments.

## Wiring



TECH SUPPORT HOTLINE 800-989-2275



## Carlin Combustion Technology, Inc.

70 Maple Street East Longmeadow, MA 01028 Phone 413-525-7700 Fax 413-525-8306  
 e-mail us at: [info@carlincombustion.com](mailto:info@carlincombustion.com) visit our website: [www.carlincombustion.com](http://www.carlincombustion.com)