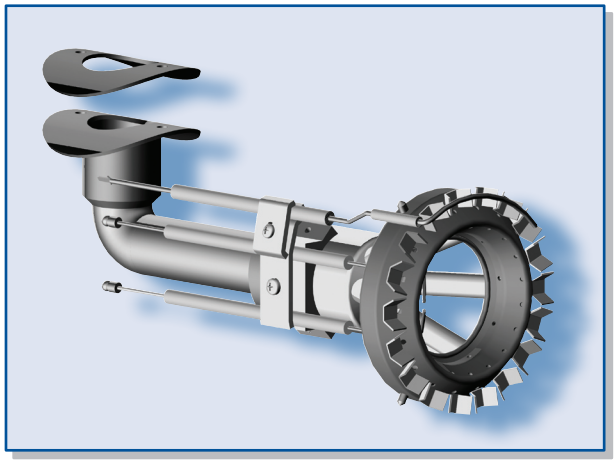
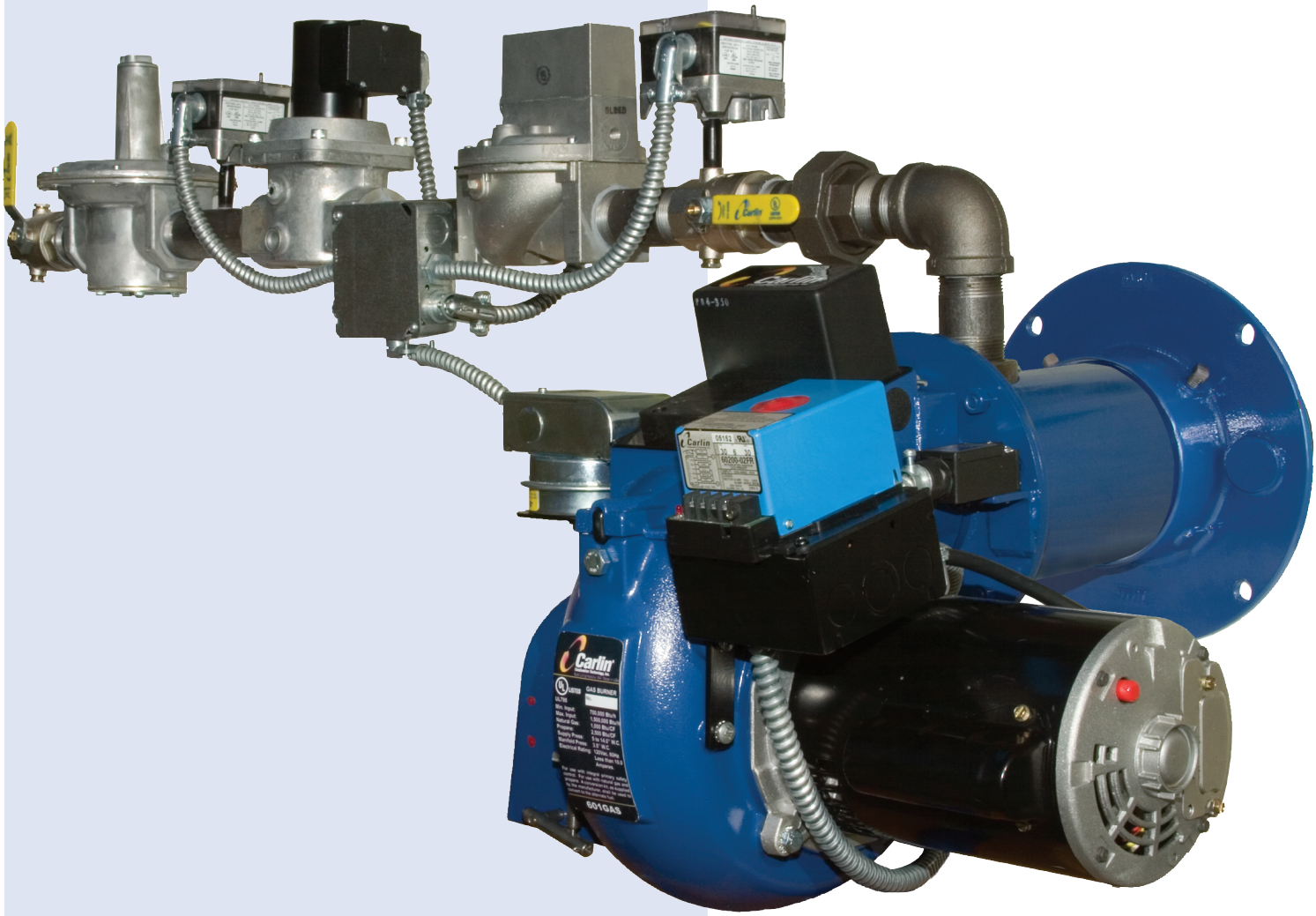
Carlin™
Combustion Technology, Inc.

MODEL 601GAS
Power Gas Burner

700,000 TO 1,500,000 BTUH

The IDEAL burner for even the toughest applications

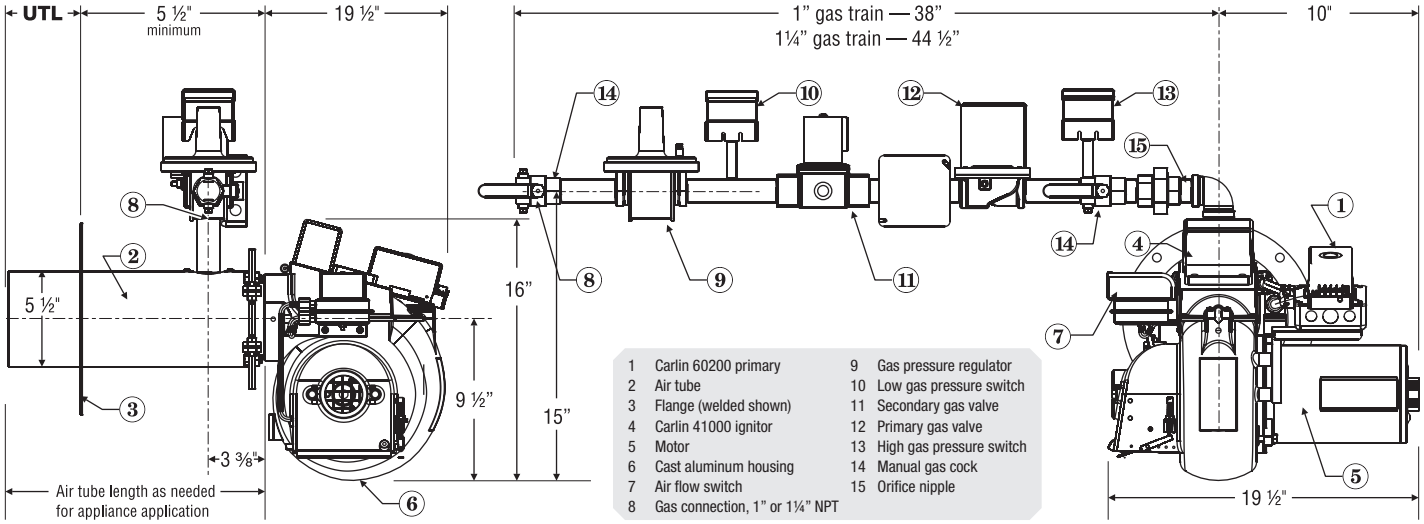




CARLIN. THE TECHNOLOGY LEADER.

UL US LISTED

Carlin **601GAS** Power Gas Burner



1	Carlin 60200 primary	9	Gas pressure regulator
2	Air tube	10	Low gas pressure switch
3	Flange (welded shown)	11	Secondary gas valve
4	Carlin 41000 ignitor	12	Primary gas valve
5	Motor	13	High gas pressure switch
6	Cast aluminum housing	14	Manual gas cock
7	Air flow switch	15	Orifice nipple
8	Gas connection, 1" or 1¼" NPT		

Features

- Converts from propane to natural gas with just an orifice change — no conversion kit needed
- Fires negative or positive chambers from 700,000 to 1,500,000 Btuh input
- Dependable, direct-spark ignition of main flame — for quick, clean light-offs
- Time-tested solid state ignition and state-of-the-art microprocessor primary control technology
- Diagnostic LED lights annunciate operating mode: Self-check, Flame-on, Recycle, Lockout and Latch-up
- Factory-packaged with combustion control and gas train (assembled, shipped loose; also available as knockdown)
- Shipped completely pre-wired — for easy installation and start-up (knockdown version also available)
- High-efficiency, compact flame pattern design ensures clean, quiet operation
- Does not require a refractory liner — fires with or without a combustion chamber
- Swing-away housing design
- Available with custom welded air tube flange (and/or optional pedestal) to accommodate most appliance mounting requirements
- Includes 1-year warranty

Specifications

Input

..... 700,000 to 1,500,000 Btuh

..... (multiple head/tube combinations available)

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 ..... 1/2 HP, 3450 RPM, 8.4 amps

Current..... *Approx.* less than 10 AMPS

Fuel valve power ..... 120 VAC/60 HZ

Ignition

..... Carlin Model 41000 solid state electronic ignitor

Ignition voltage..... 14,000 VOLTS

Control

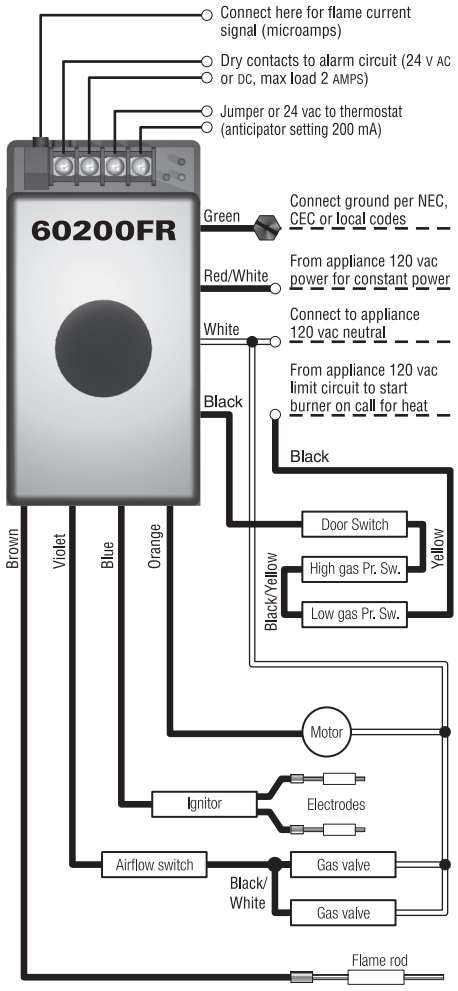
..... Carlin Model 60200FR microprocessor control

- 4-sec. Trial for ignition (TFI)
- 1.3-sec. FFRT
- Pre-purge and post-purge
- Serviceman reset protection
  (Latch-up after three consective lockouts)
- Interrupted duty ignition

Agencies

..... UL Listed (United States)

Wiring



TECH SUPPORT HOTLINE 800-989-2275

Carlin™ Combustion Technology, Inc.

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* vist our website: *www.carlincombustion.com*

© Copyright 2008 — Carlin Combustion Technology, Inc.

Carlin part number MN601GAS1C Rev. 03/12/08