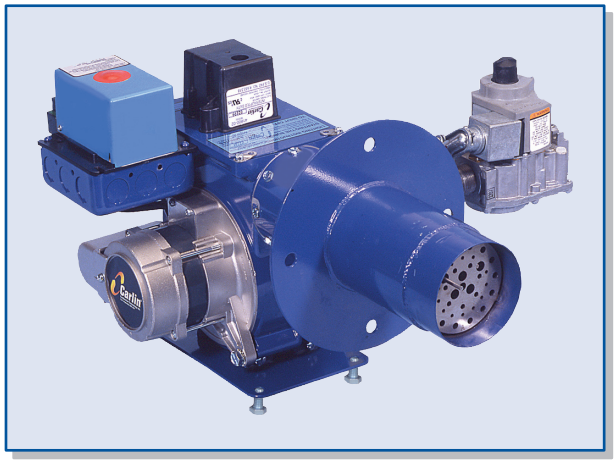
Carlin™
Combustion Technology, Inc.

MODEL **EZ-Gas™**

Power Gas Burner

50,000 TO 275,000 BTUH

The IDEAL burner for even the toughest applications



CARLIN. THE TECHNOLOGY LEADER.

US LISTED

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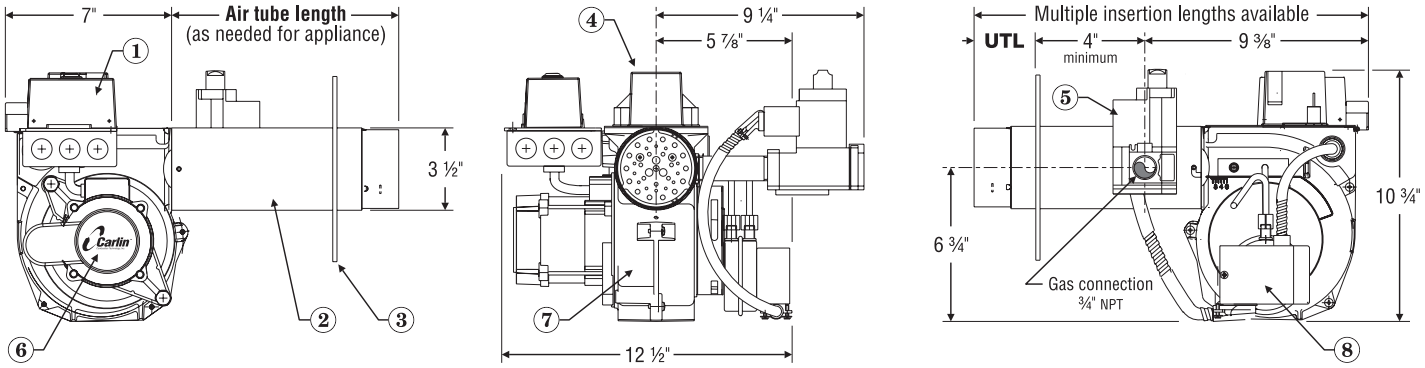


1. Carlin 60200FR microprocessor control
2. Air tube
3. Flange (selected to meet appliance requirements)
4. Carlin 41800 solid state ignitor
5. Combination gas valve
6. Carlin PSC motor
7. Cast aluminum blower housing
8. Air flow proving switch

Features

- Converts from propane to natural gas with just an orifice change — no conversion kit needed
- Fires negative or positive chambers from 50,000 to 275,000 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 "EZ" 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

50,000 to 275,000 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 ..... 1/15 HP, 3450 RPM
Current ..... *Approximately* 2.0 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 consective lockouts)
- Interrupted duty ignition
- Recycle on flame failure

Agencies

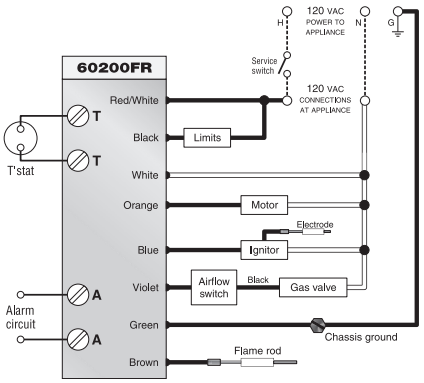
UL Listed (United States) ..... per ANSI Z21.17
MEA approval ..... #137-05-E

Orifice selection

Input	Orifice drill size		Air band	
Btuh	Natural gas	Propane gas	Slots	Approximate Setting (note)
50,000	#19 (.166)	#32 (.116)	1	0 %
75,000	#11 (.191)	#26 (.147)	1	5 %
100,000	#1 (.228)	#16 (.177)	1	20 %
125,000	D (.246)	#9 (.196)	1	30 %
150,000	J (.277)	7/32 (.219)	2	20 %
175,000	N (.302)	C (.242)	2	30 %
200,000	21/64 (.328)	17/64 (.266)	2	35 %
225,000	T (.358)	9/32 (.281)	2	45 %
250,000	X (.397)	5/16 (.312)	2	55 %
275,000	7/16 (.437)	R (.339)	2	75 %

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

Wiring



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