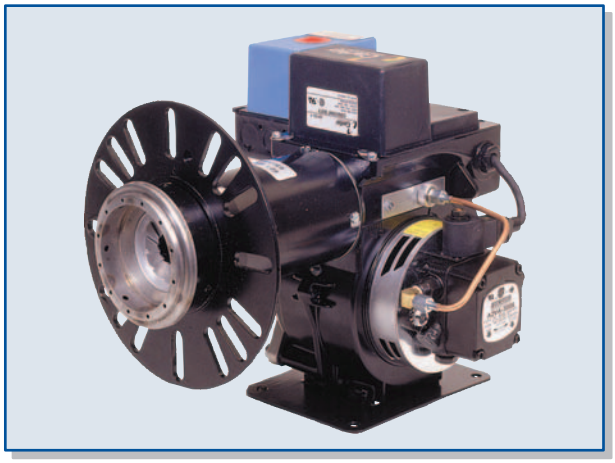
Carlin™
Combustion Technology, Inc.

MODEL EZ-Pro™
Advanced Oil Burner
0.5 TO 2.6 GPH



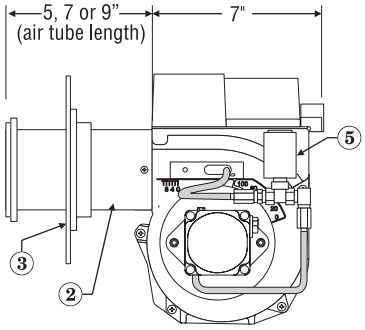
The Quiet REVOLUTION

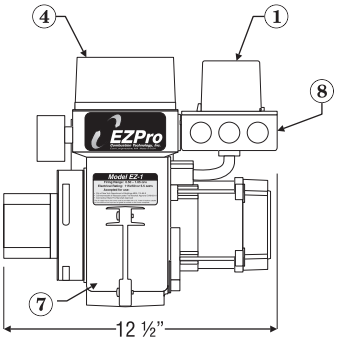
- Ultra-quiet operation . . .
- Electronic reliability . . .
- Unmatched performance
- Plus a 5-year warranty

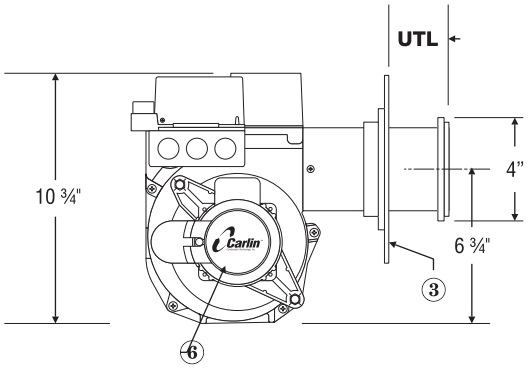
CARLIN. THE TECHNOLOGY LEADER.

c UL us LISTED

Carlin **EZ-Pro** Advanced Oil Burner







1. Carlin 60200 microprocessor control
2. Air tube
3. Universal flange (welded flange optional)
4. Carlin 41000 solid state ignitor
5. Carlin SVC instant oil valve
6. Carlin PSC motor
7. Cast aluminum blower housing
8. Junction box

Features

*The **EZ-Pro** advanced oil burner combines the proven range and reliability of the EZ burner with Carlin's line of electronic controls and high efficiency components. Purchase the EZ-Pro in any of three configurations — EZ-1, EZ-2 or EZ-3. Specify tube length when ordering.*

Quiet operation

- Unique blower design nearly eliminates fan noise
- The smooth ignition and combustion of the EZ burner design yield virtually silent burning

Electronic reliability

- Comes standard with time-tested solid state ignition and state-of-the-art microprocessor control technology:

  Carlin **60200-02** microprocessor control (with 10-second prepurge and postpurge and interrupted ignition) — Diagnostic LED lights annunciate operating mode: Self-check, Flame-on, Recycle, Lockout and Latch-up

  Carlin **41000** electronic ignitor, constant-duty rated for long life and reliability

  Cad cell flame sensor

Unmatched performance

- Carlin **PSC** high-efficiency motor
- EZ burner design yields exceptional fuel/air mixing for wide range of operation
- Nozzle line heater for clean burning and reliable ignition
- 5, 7 or 9-inch air tube and combustion head, with stainless steel nose cone
- Single-stage oil pump with integral oil valve
- Aluminum flange and gasket (welded flange optional)

Specifications

Input

0.5 to 2.6 GPH

70,000 to 364,000 Btuh

Fuels

U. S. ..... No. 1 or No. 2 Fuel oil

Canada ..... No. 1 Stove oil or No. 2 Furnace oil

Electrical

Power 120 VAC/60 HZ/1-PHASE

Current ..... *Approximately* 5.8 AMPS

Limit circuit input ..... 120 VAC/60 HZ

Motor (PSC) ..... 1/6 HP, 3450 RPM

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

Nozzle line heater ..... 120 VAC/60 HZ

Alarm contacts (isolated) ..... 24 VAC/VDC, 2 AMPS

Ignition

Carlin Model 41000 solid state electronic ignitor

Ignition voltage ..... 14,000 VOLTS

Control

Carlin Model 60200 microprocessor control .....

- 15-sec. Trial for ignition (TFI)
- 1.3-sec. FFRT
- Pre-purge and post-purge (10 seconds)
- Serviceman reset protection

  (Latch-up after three consective lockouts)
- Interrupted duty ignition
- Recycle on flame failure

Operating temperature limits

Maximum ambient ..... 104 °F (40 °C)

Agencies

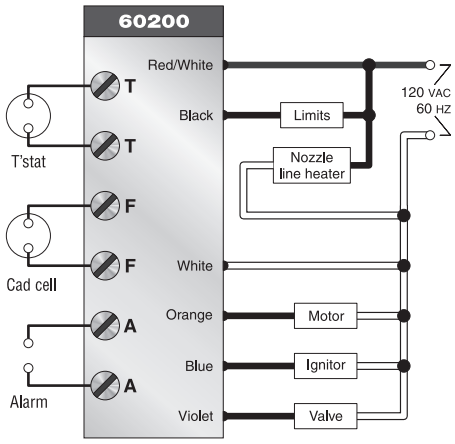
UL Listed ..... (US & Canada)

Firing rate ranges

Model	Range GPH	Head bar selections (Note 1)
EZ-1	0.50 – 1.65	7 options: 0.5 / 0.6-0.65 / 0.75 / 0.85-1.00 1.10-1.25 / 1.10-1.25 / 1.35-1.50 / 1.65 GPH
EZ-2	1.50 – 2.25	4 options: 1.50 / 1.65-1.75 / 2.00 / 2.25 GPH
EZ-3	2.00 – 2.60	3 options: 2.00 / 2.25 / 2.60 GPH

Note 1: Head bars, supplied in kits with each burner, position the flame retention ring assembly correctly in the air tube for the given firing range. See burner manual for more detail.

Wiring



Warning — *For use only by a qualified service technician.*

1. Always disconnect power source before wiring to avoid electrical shock or damage to the control. All wiring must comply with applicable codes and ordinances.
2. Thermostat terminals (T–T) provide a current source. Never apply external power to these terminals under any circumstances.
3. Alarm terminals provide a 24 VAC-rated dry contact, suitable for use with security/fire alarm systems such as Carlin SecureHeat™.

TECH SUPPORT HOTLINE 800-989-2275

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