

# ***EZ Series Advanced Oil Burners***



***EZ-1  
EZ-2  
EZ-3***

The EZ Series of advanced oil burners combines Carlin's 65 years of proven burner technology and reliability with our premium line of controls and high efficiency components to deliver ultra-quiet operation, electronic reliability and unmatched performance.

- **Ultra-Quiet Operation**
- **Electronic Reliability**
- **Unmatched Performance**



*Optional easy-to-install, low-cost cover is available to fit the EZ Series of burners.*

***Carlin***<sup>®</sup>  
***Combustion Technology, Inc.***

# EZ Series Advanced Oil Burners

## EZ-1, EZ-2, EZ-3

### Quiet Operation

- Unique blower design nearly eliminates fan noise
- Combustion and ignition noise virtually eliminated by the unique nose cone design

### Electronic Reliability

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

*Carlin 60200 microprocessor control with water resistant design and pump priming feature – Diagnostic LED lights indicate operating mode: Self-check, Flame-on, Recycle, Lockout and Latch-up*

*Carlin 41000 electronic ignitor – re-engineered for added durability*

### Unmatched Performance

- EZ Burner design yields exceptional fuel/air mixing for wide range of operation
- 5, 7, 9 or 11-inch air tube and combustion head, with 18 SR stainless steel nose cone
- Oil pump with secondary internal cone valve provides added shut-off protection
- OEM Specified – Manufactured to OEM specifications to optimize appliance efficiency and performance
- High quality PSC Motor provides required torque while reducing energy consumption

| FIRING RATE RANGES |             |                                                                             |
|--------------------|-------------|-----------------------------------------------------------------------------|
| Model              | Range (GPH) | Head Bar Selections*                                                        |
| <b>EZ-1</b>        | 0.50 - 1.65 | 7 options: 0.50; 0.60-0.65; 0.75; 0.85-1.00; 1.10-1.25; 1.35-1.50; 1.65 GPH |
| <b>EZ-2</b>        | 1.50 - 2.25 | 4 options: 1.50; 1.65-1.75; 2.00; 2.25 GPH                                  |
| <b>EZ-3</b>        | 2.00 - 2.65 | 3 options: 2.00; 2.25; 2.60 GPH                                             |

\* 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 details.



- 1 Carlin 60200 Microprocessor Control
- 2 Carlin 41000 Solid State Ignitor
- 3 Cast Aluminum Blower Housing
- 4 Continuous Welded Seam Air Tube
- 5 Welded Flange
- 6 Carlin PSC Motor

### SPECIFICATIONS

#### Input

0.50 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)
- Pump prime
- Serviceman reset protection (Latch-up after three consecutive lockouts)
- Interrupted duty ignition
- Recycle on flame failure

#### Operating Temperature Limits

Maximum ambient – 140°F (60°C)

#### Agencies

UL Listed (US & Canada)



**Carlin**<sup>®</sup>  
Combustion Technology, Inc.

126 Bailey Road, North Haven, CT 06473 • 203-680-9401  
www.carlincombustion.com

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