

G21/GSR21 SERIES UNITS

G21 and GSR21 units are condensing furnaces utilizing the pulse combustion process. Initially, combustion takes place in an enclosed chamber. Then, as combustion products pass through the heat exchanger system into a coil, the latent heat of combustion is extracted and water is condensed from the exhaust gas.

The unit uses a redundant gas valve to assure safety shut-off as required by A.G.A. The units are manufactured for natural gas application. L.P. kits for A.G.A. / C.G.A. units are available for field changeover.

An electronic direct spark ignition control initiates combustion. The ignition control serves four functions: pre-purge, ignition, flame sensing and post-purge. Controls reset in the event of nuisance lockout. The control also verifies loss of combustion during a cycle, closing the gas valve. A differential pressure switch shuts down the unit immediately if there are obstructions in the exhaust outlet or air intake.

A purge blower clears the combustion chamber before and after each heating cycle to ensure proper air mixture for start-up. All units feature direct drive multi-speed blower motors.

"V" series units feature an electronically controlled blower motor (ICM1 or ICM2) controlled by a VSP control (VSP1 or VSP2-1). The VSP controls blower CFM using either a

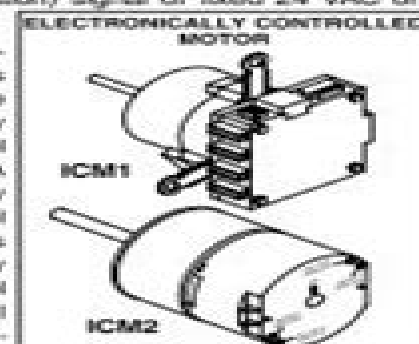
PWM (pulse width modulation) signal or fixed 24 VAC or VDC signal.

These signals are generated by optional controls such as the Harmony zone control system, Efficiency Plus Humidity Control (CCB1) or a thermostat. A PWM signal is generated by the Harmony zone control system. A fixed DC signal is generated by the Efficiency Plus Humidity Control (CCB1) and a 24 VAC signal is generated by a thermostat.

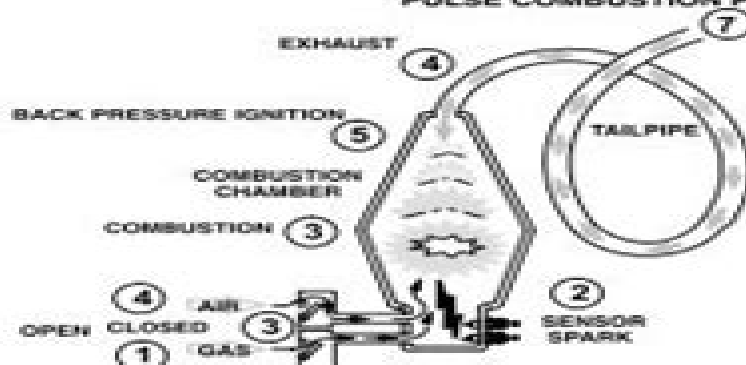
The Harmony zone control system produces a PWM signal to regulate blower CFM. The CCB1 varies indoor blower speed in response to indoor humidity demand. The CCB1 produces a DC signal.

When a two-speed condensing unit is used with the Harmony zone control system or CCB1, compressor speed as well as indoor blower CFM are controlled more accurately than with a conventional two stage thermostat.

All specifications in this manual are subject to change.



PULSE COMBUSTION PROCESS



- 1 - Gas and air enter and mix in combustion chamber
- 2 - To start the cycle a spark is used to ignite the gas and air mixture (this is one "pulse").
- 3 - Positive pressure from combustion closes flapper valves and forces exhaust gases down the tailpipe.
- 4 - Exhaust gases leaving chamber create a negative pressure. This opens the flapper valve drawing in gas and air.
- 5 - At the same instant, part of the pulse is reflected back from the tailpipe causing the new gas and air mixture to ignite. No spark is needed. (this is another "pulse").
- 6 - Steps 4 and 5 repeat 60 to 70 times per second forming consecutive "pulses" of 1/4 to 1/2 blus each.
- 7 - Latent heat is removed from combustion products and condensate (water) is formed in the condensate coil.

Lennox Pulse G14 Manual

Chao Zhang



Lennox Pulse G14 Manual:

Lennox Pulse G14 Manual Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Lennox Pulse G14 Manual**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Lennox Pulse G14 Manual

1. Understanding the eBook Lennox Pulse G14 Manual
 - The Rise of Digital Reading Lennox Pulse G14 Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Lennox Pulse G14 Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lennox Pulse G14 Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lennox Pulse G14 Manual
 - Personalized Recommendations
 - Lennox Pulse G14 Manual User Reviews and Ratings
 - Lennox Pulse G14 Manual and Bestseller Lists
5. Accessing Lennox Pulse G14 Manual Free and Paid eBooks

- Lennox Pulse G14 Manual Public Domain eBooks
- Lennox Pulse G14 Manual eBook Subscription Services
- Lennox Pulse G14 Manual Budget-Friendly Options
- 6. Navigating Lennox Pulse G14 Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Lennox Pulse G14 Manual Compatibility with Devices
 - Lennox Pulse G14 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lennox Pulse G14 Manual
 - Highlighting and Note-Taking Lennox Pulse G14 Manual
 - Interactive Elements Lennox Pulse G14 Manual
- 8. Staying Engaged with Lennox Pulse G14 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lennox Pulse G14 Manual
- 9. Balancing eBooks and Physical Books Lennox Pulse G14 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lennox Pulse G14 Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lennox Pulse G14 Manual
 - Setting Reading Goals Lennox Pulse G14 Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lennox Pulse G14 Manual
 - Fact-Checking eBook Content of Lennox Pulse G14 Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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