PLN™ Ultra-Low NOx Package Burner

Lower Emissions and Advanced Technology.

Zeeco’s PLN Ultra-Low NOx Package Burner utilizes surface stabilized combustion to achieve low NOx emissions without the use of Flue Gas Recirculation (FGR). The burner is ideal for generating heat and steam in commercial, institutional, and light industrial applications. The PLN burner delivers dramatically lower emissions and engineering technology that can only come from the global authority in combustion and environmental solutions—Zeeco.

Burner Features and Benefits

• Compact and versatile design for easy installation
• Safe, reliable, easy to set up, simple to maintain
• NOx reduction using Surface Stabilized Combustion
  – 30 ppm (58mg) NOx with 45% excess air levels, No FGR
  – 9 ppm (17mg) NOx with 60% excess air levels, No FGR
• Fires natural gas and propane gas
• High turndown
• Quiet operation with typical noise levels below 85dBA
• Complete integrated system with automatic flame monitoring and shut-off, control panel, fuel control, and combustion air fan

Standard Equipment

• Blower/Motor
• Burner Management System (BMS) Siemens LMV3/LMV51, or AutoFlame Mini Mark 8
• NEMA 1 Integrated Control Panel with Power On switch and indicator lights for power, pilot, main flame, and flame failure
• Parallel Positioning System with air and fuel actuators
• Air and fuel control (BV) valves with servo motors
• Combustion Air Proving Switch
• Air Filter Proving Switch
• Ignition Transformer with pilot assembly
• Hinged Blast Tube
• Air Inlet Filters
• Pilot Train - includes regulator, solenoid valve, and manual valve
• Main Fuel Train - includes ventless regulator, ventless dual block main gas shutoff valves, high and low pressure switches, two manual gas valves

Optional Equipment

• All UL listed Burner Management Systems
• O2 Trim
• Variable Frequency Drive (VFD)
• Remote Control Panels

Burner Model Naming Convention

PLN-GX-025-9

Burner Model | Frame Size | Burner Size (MMBTU) | Turndown Gas | BMS System | Scanner | UV | IR
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PLN-GX-025-9 | 1 | 2.5 | 4-1 | LMV3 | ✓ | o
PLN-GX-030-9 | 1 | 3.0 | 4-1 | LMV3 | ✓ | o
PLN-GX-042-9 | 1 | 4.2 | 4-1 | LMV3 | ✓ | o
PLN-GX-053-9 | 2 | 5.3 | 4-1 | LMV3 | ✓ | o
PLN-GX-063-9 | 2 | 6.3 | 4-1 | LMV3 | ✓ | o
PLN-GX-084-9 | 2 | 8.4 | 4-1 | LMV3 | ✓ | o
PLN-GX-105-9 | 3 | 10.5 | 8-1 | LMV51 | ✓ | o
PLN-GX-126-9 | 3 | 12.6 | 8-1 | LMV51 | ✓ | o
PLN-GX-147-9 | 3 | 14.7 | 8-1 | LMV51 | ✓ | o
PLN-GX-168-9 | 3 | 16.8 | 8-1 | LMV51 | ✓ | o
PLN-GX-210-9 | 4 | 21.0 | 10-1 | LMV51 | ✓ | o
PLN-GX-252-9 | 4 | 25.2 | 10-1 | LMV51 | ✓ | o
PLN-GX-294-9 | 4 | 29.4 | 10-1 | LMV51 | ✓ | o
PLN-GX-336-9 | 5 | 33.6 | 10-1 | LMV51 | ✓ | o
PLN-GX-378-9 | 5 | 37.8 | 10-1 | LMV51 | ✓ | o
PLN-GX-420-9 | 5 | 42.0 | 10-1 | LMV51 | ✓ | o
PLN-GX-504-9 | 6 | 50.4 | 10-1 | LMV51 | ✓ | o
PLN-GX-546-9 | 6 | 54.6 | 10-1 | LMV51 | ✓ | o
PLN-GX-630-9 | 6 | 63.0 | 10-1 | LMV51 | ✓ | o

Burner Selection

STANDARD O Optional
PLN™ Ultra-Low NOx Package Burner

Burner model: PLN
Heat release range: 2.5 MMBtu/hr to 63 MMBtu/hr (0.73 MW to 18.5 MW)
Fuel Gas: Natural Gas, LPG, or other upon request
Turndown: up to 10:1
Excess air range: 35% to 60%
Expected emissions levels:
- 40ppm (77mg) NOx at 40% excess air
- 30ppm (58mg) NOx at 45% excess air
- 15ppm (29mg) NOx at 50% excess air
- 9ppm (17mg) NOx at 60% excess air

Mounting options: Horizontal, Vertical, Up, or Down Firing