

GB PACKAGE BURNER



BURNERS | FLARES | THERMAL OXIDIZERS | VAPOR CONTROL | RENTALS | AFTERMARKET

Lower Emissions and Advanced Technology.

The ZEECO® GB staged air/staged fuel burner is designed with a staged fuel gas tip and a staged air annulus, which utilizes only one gas tip and provides lower NO_x emissions than conventional raw gas designs. With greater flame stability, the burner provides consistent heat distribution and reduces maintenance costs. This staged air method is designed to offer turndown of 10:1 or greater, which is a drastic improvement over other low NO_x designs.

Burner Features and Benefits

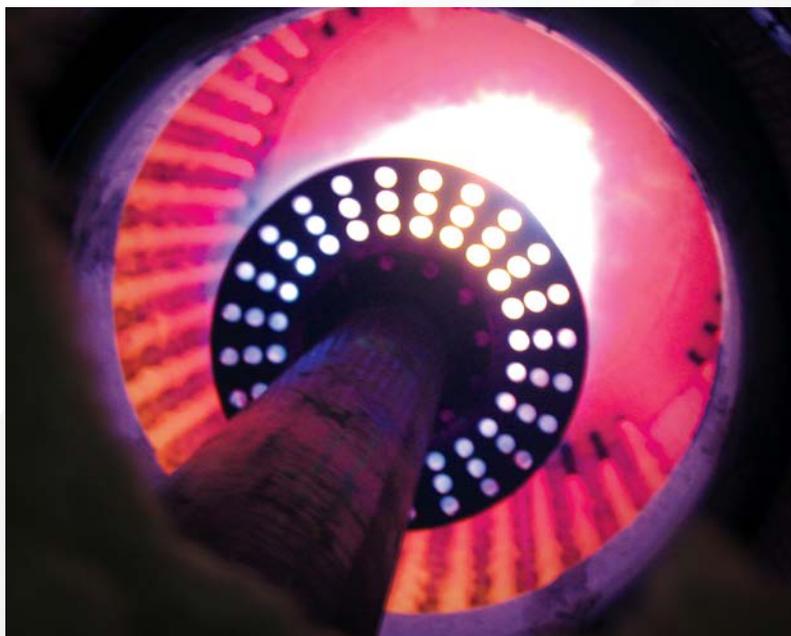
- Compact and versatile design for easy installation
- Safe, reliable, easy to set up, simple to maintain
- Fires natural gas, LP gas
- Efficient performance with excess air range from 10% to 20%
- High turndown, quiet operation
- Complete integrated system with automatic flame monitoring and shut-off, control panel, and combustion air fan

Standard Equipment

- Blower / motor
- Combustion air proving switch
- Ignition transformer with pilot assembly
- Blower inlet silencer

Optional Equipment

- All UL listed Burner Management Systems
- O₂ trim
- Variable Frequency Drive (VFD)
- Remote control panels
- Burner Management System (BMS) Siemens LMV51 or Autoflame Mini Mark 8
- NEMA 1 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
- 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



GB Package Burner

- Burner model: GB Package Burner
- Heat release range: 4.2 MMBtu/hr to 29.4 MMBtu/hr (1.2 MW to 8.6 MW)
- Fuel Gas: Natural Gas, LPG, or other upon request
- Turndown: 10:1 on gas
- Excess air range: 10% to 20%
- Blower mounting options: above or floor mounted
- Burner mounting options: horizontal, vertical, up, or down firing

Burner Model Naming Convention

- GB-GX-210-80
 - NO_x emissions level: (80ppm)
 - Input rate: (21MMBtu)
 - Fuel: G=Gas, P=LP, D=Digester gas, 2=#2 oil, 6=#6 oil, X=no oil
 - Burner name: GB (abbreviated)

Burner Selection

Burner Model	Frame Size	Burner Size		Boiler		Blower Motor HP	Furnace Pressure (inch W.C.)	Furnace Pressure (mBar)	Required Min Gas Pres. (PSI)	Required Min Gas Pres. (mBar)
		MMBtu HHV	MW/h LHV	HP 80% Eff.	ton/h 90% Eff.					
GB-GX-042-80	1	4.2	1.10	100	1.60	2	1	2	2.00	138
GB-GX-053-80		5.3	1.38	126	2.01	2	1	2	2.00	138
GB-GX-063-80		6.3	1.64	150	2.39	2	1	2	2.00	138
GB-GX-084-80		8.4	2.19	200	3.19	3	1	2	2.00	138
GB-GX-105-80	2	10.5	2.74	250	3.99	3	1	2	2.00	138
GB-GX-126-80		12.6	3.29	300	4.79	5	1	2	2.00	138
GB-GX-147-80		14.7	3.84	350	5.59	5	1	2	2.00	138
GB-GX-168-80		16.8	4.38	400	6.38	7.5	1	2	2.00	138
GB-GX-210-80	3	21.0	5.48	500	7.98	10	1	2	2.00	138
GB-GX-252-80		25.2	6.58	600	9.58	15	1	2	2.00	138
GB-GX-294-80		29.4	7.67	700	11.17	15	1	2	2.00	138



The Zeeco Difference

By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion and environmental solutions. We are a privately held company whose ownership stays highly involved in daily operations, with upper management comprised of the world's leading combustion experts.

When you call Zeeco, we answer. When you make a request, you get a quick, efficient response. We are lean and efficient, able to make decisions quickly, without bureaucracy and red tape. Our sales, engineering, and purchasing groups work hand-in-hand to deliver highly competitive quotes and heroic turnaround times. We stand ready and willing to travel anywhere in the world to discuss upcoming projects firsthand, and to ensure that every existing project runs seamlessly.

Zeeco Headquarters
22151 East 91st Street
Broken Arrow, OK 74014

Learn more at zeeco.com

✉ sales@zeeco.com

☎ +1 (918) 258 8551



REGISTERED
ISO 9001: 2015

Certification applies to
Zeeco Headquarters.



Visit zeeco.com/contact
for additional Global Location
contact information

GO
ZEECO

Choose to work with our dedicated, flexible, and innovative team, and you won't be disappointed. Call or email us today to request a quote or to learn more about our proprietary combustion systems.