

FREE JET® ULTRA-LOW NO_x PACKAGE BURNER



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

Lower Emissions and Advanced Technology.

Zeeco's FREE JET Ultra-Low NO_x Package Burner takes combustion innovation to the next level with big performance in a compact package. Ideal for generating heat and steam in commercial, institutional, and light industrial applications, the FREE JET burner delivers dramatically lower emissions and the engineering technology that can only come from the global authority in combustion and environmental solutions - Zeeco.

Burner Features and Benefits

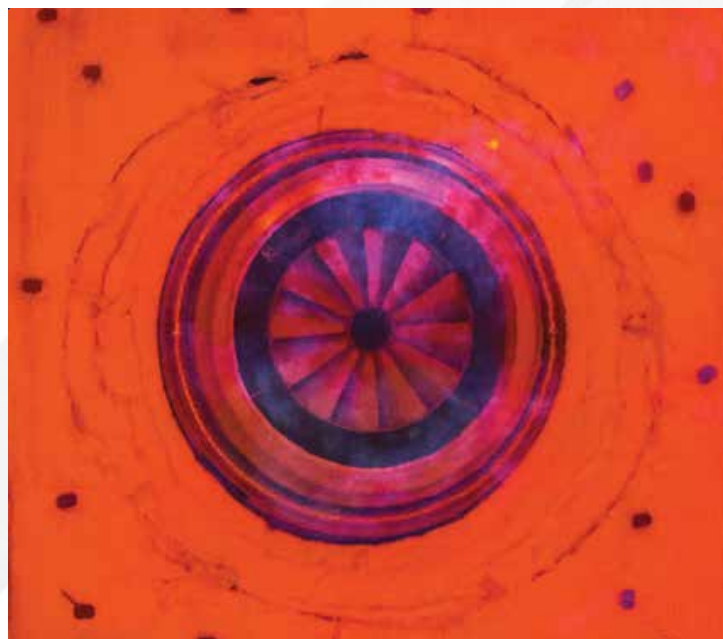
- Compact and versatile design for easy installation
- Safe, reliable, easy to set up, simple to maintain
- Patented NO_x emission reduction technology
 - » 30ppm (58mg) NO_x without FGR
 - » 9ppm (17mg) NO_x with FGR
- Fires natural gas, LP gas, and oil
- Efficient performance with excess air range 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
- Air compressor for air atomized oil
- 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
- 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



FREE JET® Ultra-Low NO_x Package Burner

- Burner model: FREE JET
- 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
- Fuel Liquid: #2 to #6 oil
- Turndown: 10:1 on gas, 8:1 on oil
- Excess air range: 10% to 20%
- 30ppm (58mg) NO_x reduction method: staged gas (no FGR)
- 9ppm (17mg) NO_x reduction method: staged gas with FGR
- Blower mounting options: above or floor mounted
- Burner mounting options: horizontal, vertical, up, or down firing

Burner Model Naming Convention

FJ-GX-210-30

- NO_x emissions level: (30ppm)
- Input rate: (21MMBtu)
- Fuel: G=Gas, P=LP, D=Digester gas, 2=#2 oil, 6=#6 oil, X=no oil
- Burner name: FREE JET (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.					
FJ-GX-042-30	1	4.2	1.10	100	1.60	2	1	2	2.00	138
FJ-GX-053-30		5.3	1.38	126	2.01	2	1	2	2.00	138
FJ-GX-063-30		6.3	1.64	150	2.39	2	1	2	2.00	138
FJ-GX-084-30		8.4	2.19	200	3.19	5	1	2	2.00	138
FJ-GX-105-30	2	10.5	2.74	250	3.99	3	1	2	2.00	138
FJ-GX-126-30		12.6	3.29	300	4.79	5	1	2	2.00	138
FJ-GX-147-30		14.7	3.84	350	5.59	5	1	2	2.00	138
FJ-GX-168-30		16.8	4.38	400	6.38	7.5	1	2	2.00	138
FJ-GX-210-30	3	21.0	5.48	500	7.98	10	1	2	2.00	138
FJ-GX-252-30		25.2	6.58	600	9.58	15	1	2	2.00	138
FJ-GX-294-30		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



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combustion systems.