

LOW NO_x - LOW CO HIGH EFFICIENCY STEAM GENERATORS AND FLUID HEATERS

Clayton
INDUSTRIES



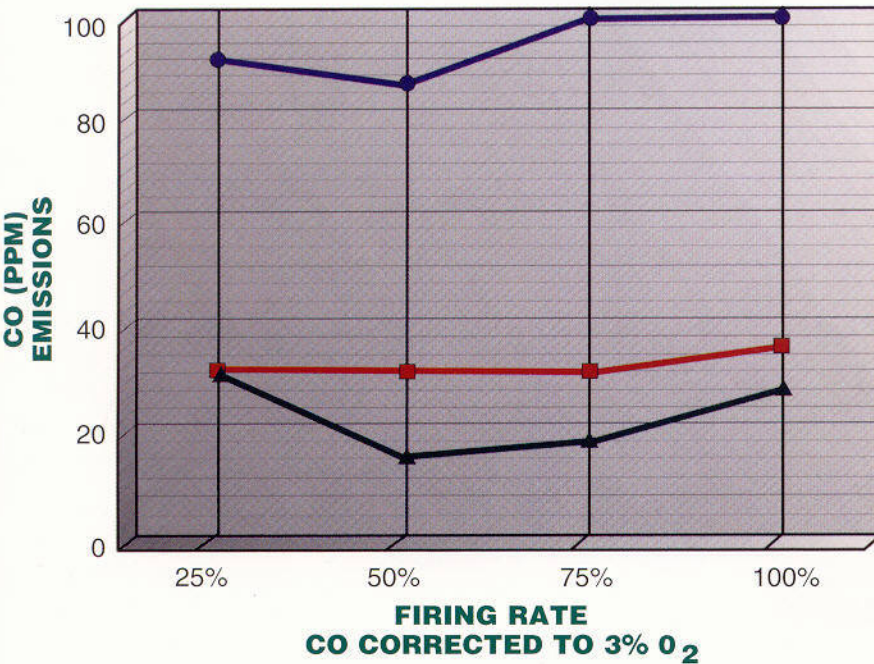
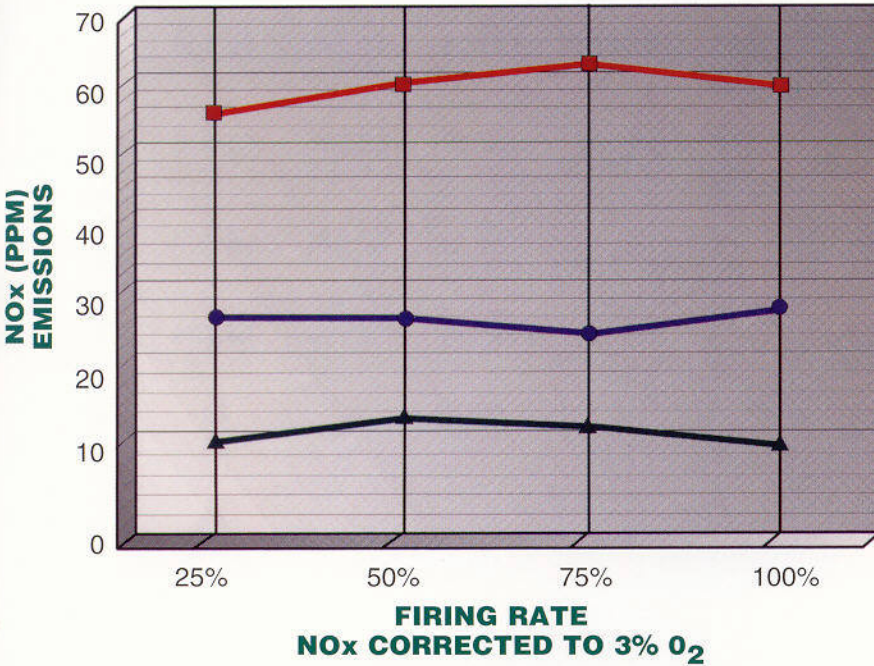
Not just a step ahead,

A STEP BEYOND™

Clayton Industries' Dedication to Cleaner Skies

Industry today is faced with tighter regulations with regards to emissions. The requirement to cleanup the environment has placed an ever increasing burden on all of us to look for better and cleaner ways to utilize our natural resources. In keeping with a long standing tradition of innovation and quality, Clayton Industries is pleased to introduce a new Low NO_x - Low CO burner design for our Steam Generators and Fluid Heaters to answer the challenge. Developed by Clayton Industries and the American Gas Association Research Laboratories, with support from the Southern California Gas Company, South Coast Air Quality Management District (SCAQMD) and Gas Research Institute (GRI), this exciting and advanced burner technology provides ultra-low emissions, combined with high thermal efficiencies typically found in Clayton Steam Generators and Fluid Heaters.

ACTUAL BURNER PERFORMANCE



■ **STANDARD**
● **FGR**
▲ **LOW NO_x**
8.4 MMBTU BURNER

Low Emissions Unit

- > LOW NO_x AND CO EMISSIONS
- > HIGH THERMAL EFFICIENCIES THROUGHOUT THE OPERATING RANGE
- > LOW MAINTENANCE AND OPERATION COST
- > AVAILABLE WITH FULL PLC AUTOMATION
- > NO_x EMISSIONS CREDITS
- > AVAILABLE FROM 100 TO 600 BHP
- > SIMPLE, RELIABLE, EASY TO MAINTAIN
- > NO AUXILIARY EQUIPMENT, ELIMINATES THE NEED FOR FGR

Features & Benefits

- > RAPID RESPONSE TO LOAD CHANGES
- > COMPACT SIZE
- > RAPID START-UP
- > HIGHEST LEVEL OF SAFETY
- > HIGH QUALITY STEAM
- > LOW BLOWDOWN RATES
- > LOW MAINTENANCE
- > RELIABLE PERFORMANCE

LOW EMISSIONS UNIT SPECIFICATIONS

MODEL	EG100 LNB	EG154 LNB	EG204 LNB	EG254 LNB	EG304 LNB	EG354 LNB	EG404 LNB	EG504 LNB	EG604 LNB
BOILER HORSEPOWER (note 1)	100	150	200	250	300	350	400	500	600
NET HEAT OUTPUT MMBTU/HR.	3.35	5.02	6.70	8.37	10.04	11.72	13.39	16.74	20.09
EQUIVALENT RATED OUTPUT(lbs/hr) from & at 212°F feedwater & 0 psig	3,450	5,175	6,900	8,625	10,350	12,075	13,800	17,250	20,700
DESIGN PRESSURE (note 2) psig	15-500	15-500	15-500	15-500	15-500	15-500	150-500	150-500	150-500
OPERATING PRESSURE RANGE psig	12-450	12-450	12-450	12-450	12-450	12-450	65-450	65-450	65-450
GAS CONSUMPTION (note 3) w/o SE w/ SE	4,184 4,033	6,277 6,050	8,369 8,066	10,461 10,083	12,553 12,099	14,645 14,116	16,738 16,133	20,922 20,166	25,106 24,199
THERMAL EFFICIENCY (note4) w/o SE w/ SE	80 83	80 83	80 83	80 83	80 83	80 83	80 83	80 83	80 83
ELECTRIC MOTORS, total HP design pressure ≤ 300psi >300 psi contact factory	11.5	18	25.5	38	43	58	60	75	95
ELECTRIC FLA @ 460V (note 5) design pressure ≤ 300psi >300 psi contact factory	22	32	43	60	68	92	95	115	144
HEATING SURFACE square feet	198	473	473	473	594	594	912	912	1,230
STACK DIAMETER inches	18	18	18	24	24	24	32	32	32
APPROX. WEIGHT, pounds installed (wet)	4,150	9,520	9,792	9,792	11,050	11,050	16,100	17,367	20,650
APPROX. OVERALL DIMENSIONS, inches									
GENERATOR & PUMP SKID length	80	112	112	112	128	128	154	154	154
width	55	92	92	92	91	91	133	133	135
height (includes legs)	87	106	106	106	119	119	139	139	189
height with SE (includes legs)	102	125	125	125	142	142	165	165	206

Note 1 - Models EG-154 and larger have modulating control systems.

Note 2 - Design pressure rating up to 3000 psi available. Consult Factory for details.

Note 3 - At maximum firing rate based on natural gas with a High Heat Value (HHV) of 1000 BTU/Ft³. Consult Factory for alternate fuels.

Note 4 - Efficiencies shown are nominal, at maximum firing rate. Small variations may occur due to manufacturing tolerances. Consult factory for guaranteed values.

Note 5 - Continuous running at maximum firing rate. For 575V multiply by 0.8; for 380V multiply by 1.1; for 230V multiply by 2.0; for 208V multiply by 2.2.



4213 Temple City Blvd., P.O. Box 5530, El Monte CA 91734 • Fax (626)442-1701

www.claytonindustries.com • E-mail address: clayemail@aol.com

FACTORY DIRECT SALES AND SERVICE

U.S. Offices

ATLANTA • BRAMPTON, ONTARIO • CHICAGO • CINCINNATI • CLAYTON, CA • CLEVELAND • DALLAS • DETROIT • EAST TEXAS, PA
EL MONTE, CA • KANSAS CITY • LONG ISLAND, NY • NEW JERSEY • OLD GREENWICH, CT

AFFILIATES, LICENSEES, SALES and SERVICE DISTRIBUTORS WORLD-WIDE

THE DESCRIPTION AND SPECIFICATIONS SHOWN WERE IN EFFECT AT THE TIME THIS PUBLICATION WAS APPROVED FOR PRINTING. CLAYTON INDUSTRIES, WHOSE POLICY IS ONE OF CONTINUOUS IMPROVEMENT, RESERVES THE RIGHT TO DISCONTINUE MODELS AT ANY TIME, OR CHANGE SPECIFICATIONS OR DESIGN WITHOUT NOTICE AND WITHOUT INCURRING OBLIGATION.