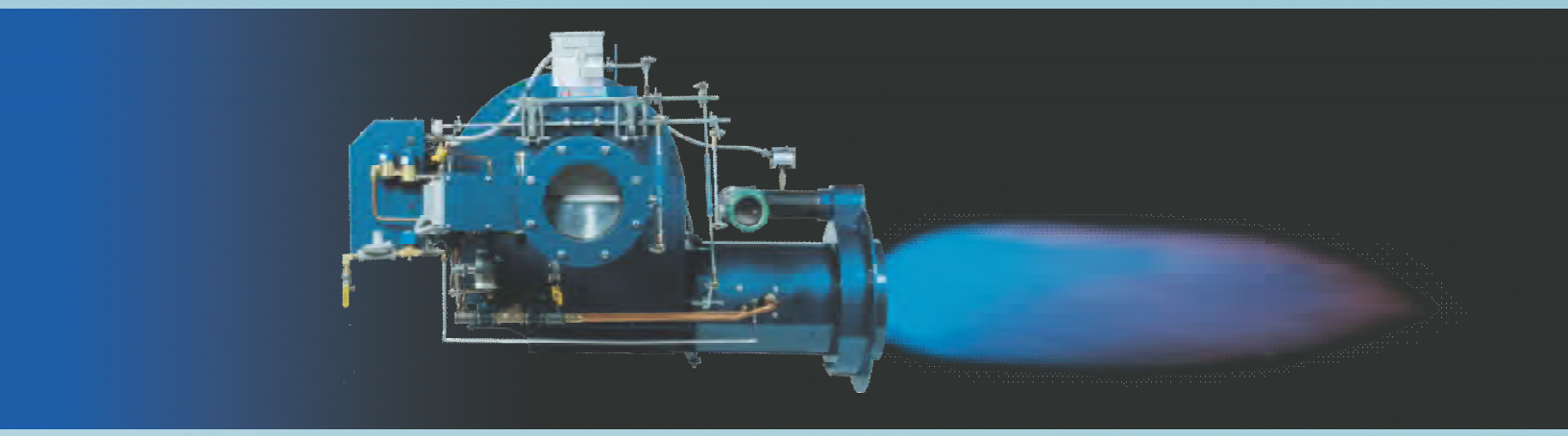
NOVA LOW NOx COMBUSTION SYSTEMS

GAS 300,000 – 92,400,000 BTU/HR
OIL

Power Flame® Nova



Power Flame's Advanced Technology Low Emission Burners The Power of Choice

Proven experience and flexibility of choice in NOx reduction techniques are key to successful emission control. Combustion chamber geometry and construction, as well as heat release levels, are among the more important determining factors in the choice of low NOx application equipment.

Heat exchanger designs vary significantly, and the choice of the most appropriate NOx reduction method is an essential element in meeting both the current and future emission standards.

The Power Flame Nova concept provides U.L. listed, factory tested packages capable of using a wide range of NOx reduction techniques. In most applications requiring sub 20 or 30 PPM NOx on gas firing, we can incorporate our cost effective Induced Flue Gas Recirculation(IFGR) system.

Designed to be fitted on a wide variety of our burner models, particularly the C, AC and CMAX burners, the IFGR system uses up to 15% inert flue gases to reduce NOx emissions to the required levels. Power Flame engineering will tailor a low emissions burner system to your job specific requirements to provide optimum performance and maximum NOx reductions.

Years of dependable field performance from hundreds of Nova system applications (more than any other commercial / industrial burner company) ensures your emission levels will be obtained.

Low NOx Adaptor
Complete assembly including modulating IFGR damper and on/off IFGR purge damper.

Total Access Panel
Swing out, easily removable top and front panels give total access to circuit board mounted operating controls and Alpha System™ LED indicators and switches. Optional remote panels for pedestal or wall mount are available.

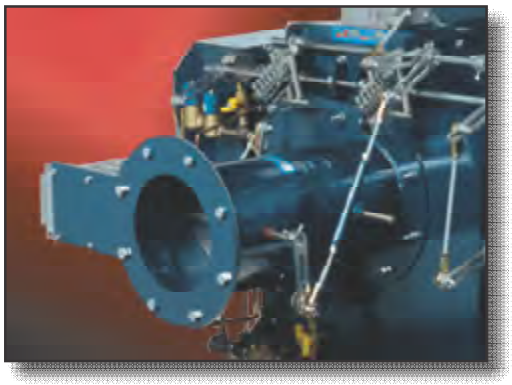
Linkage Controls (Standard)
Single modulating motor and easy to set linkage assembly minimizes start-up. Optional electronic linkageless controls are available.

PowerFlame

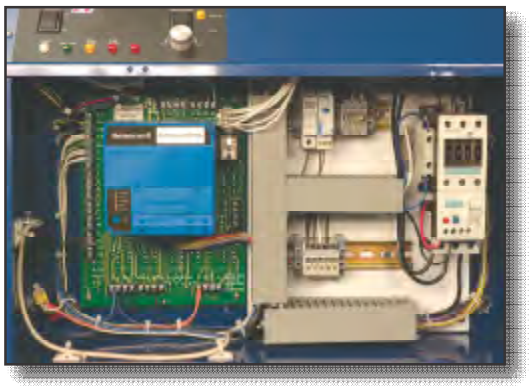
The Power to Manage Energy

State of the art Director SCS Touch Screen Controls are available on all models.

FEATURES



The Induced Flue Gas Recirculation (IFGR) Low NOx adapter is available for vertical connections (shown left) or horizontal connections (shown above)



All LNIC, AC or CMAX Burners are provided with our exclusive Alpha System™ LED Indicators, switches and printed circuit boards.

LOW NOx BURNER SYSTEMS: Capacity (see notes below)

Nat.GAS/ MBH MAX.	GPH #2 oil MAX.		20 PPM GAS	30 PPM GAS	60 PPM GAS	90 PPM #2 OIL
835	6.0	LNIC1-G(O)-10	•	•		
1,160	8.3	LNIC1-G(O)-12	•	•		
1,870	13.4	LNIC2-G(O)-15	•	•		
2,125	15.2	LNIC2-G(O)-20A	•	•		
2,620	18.7	LNIC2-G(O)-20B	•	•		
3,570	25.5	LNIC3-G(O)-20	•	•		
4,010	28.7	LNIC3-G(O)-25	•	•		
4,470	31.9	LNIC3-G(O)-25B	•	•		
5,360	38.3	LNIC4-G(O)-25	•	•		
6,670	47.6	LNIC4-G(O)-30	•	•		
8,925	63.8	LNIC5-G(O)-30	•	•		
9,815	70.1	LNIC5-G(O)-30B	•	•		
12,080	86.3	LNIC6-G(O)-30	•	•		
14,470	103.4	LNIC7-G(O)-30	•	•		
16,200	115.7	LNIC8-G(O)-30	•	•		
2,790	19.9	LNIAC3-G(O)-20	•	•		•
3,600	25.7	LNIAC3-G(O)-25	•	•		•
4,015	28.8	LNIAC3-G(O)-25B	•	•		•
4,820	34.5	LNIAC4-G(O)-25	•	•		•
6,000	42.9	LNIAC4-G(O)-30	•	•		•

Nat.GAS/ MBH MAX.	GPH #2 oil MAX.		20 PPM GAS	30 PPM GAS	60 PPM GAS	90 PPM #2 OIL
8,030	57.4	LNIAC5-G(O)-30	•	•		•
8,585	61.3	LNIAC5-G(O)-30B	•	•		•
10,710	76.5	LNIAC6-G(O)-30	•	•		•
14,470	103.4	LNIAC7-G(O)-30	•	•		•
16,200	115.7	LNIAC8-G(O)-30	•	•		•
11,800	84.0	LNICM9-G(O)-30	•	•	•	•
14,800	106.0	LNICM9A-G(O)-30	•	•	•	•
17,500	125.0	LNICM9B-G(O)-30	•	•	•	•
21,100	151.0	LNICM10-G(O)-30	•	•	•	•
22,600	161.0	LNICM10A-G(O)-30	•	•	•	•
25,700	183.0	LNICM10B-G(O)-30	•	•	•	•
32,900	235.0	LNICM10C-G(O)-30	•	•	•	•
39,100	279.0	LNICM11-G(O)-30	•	•	•	•
45,050	320.0	LNICM11A-G(O)-30	•	•	•	•
51,000	364.0	LNICM12-G(O)-40	•	•	•	•
63,400	453.0	LNICM12A-G(O)-40	•	•	•	•
75,600	540.0	LNICM13-G(O)-40	•	•	•	•
92,400	660.0	LNICM14-G(O)-40	•	•	•	•

NOTES:

1. For 20 and 30 PPM on gas and 90 PPM on oil induced flue gas recirculation is required. For 60 PPM on gas, no IFGR is required. Oil NOx emissions are based upon fuel bound nitrogen not exceeding 0.1% by weight.
2. C1 thru C8. Capacities are based on +0.2" w.c. combustion chamber pressure and 30ppm NOx. CM9 burners are rated at +1.0" w.c. combustion chamber pressure and CM10 burners are rated at +2.5" w.c. combustion chamber pressure.
   CM11 and CM11A are rated at +4.0" w.c combustion chamber pressure.
   CM12 through CM14 are rated at +8.0" w.c.combustion chamber pressure.
   Refer to capacity curves for derates based upon combustion chamber pressure.
   Stated capacities are based upon the use of 15% induced flue gas recirculation.

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Printed in the USA