

Power Flame's Premixed, Surface Stabilized Combustion Burner

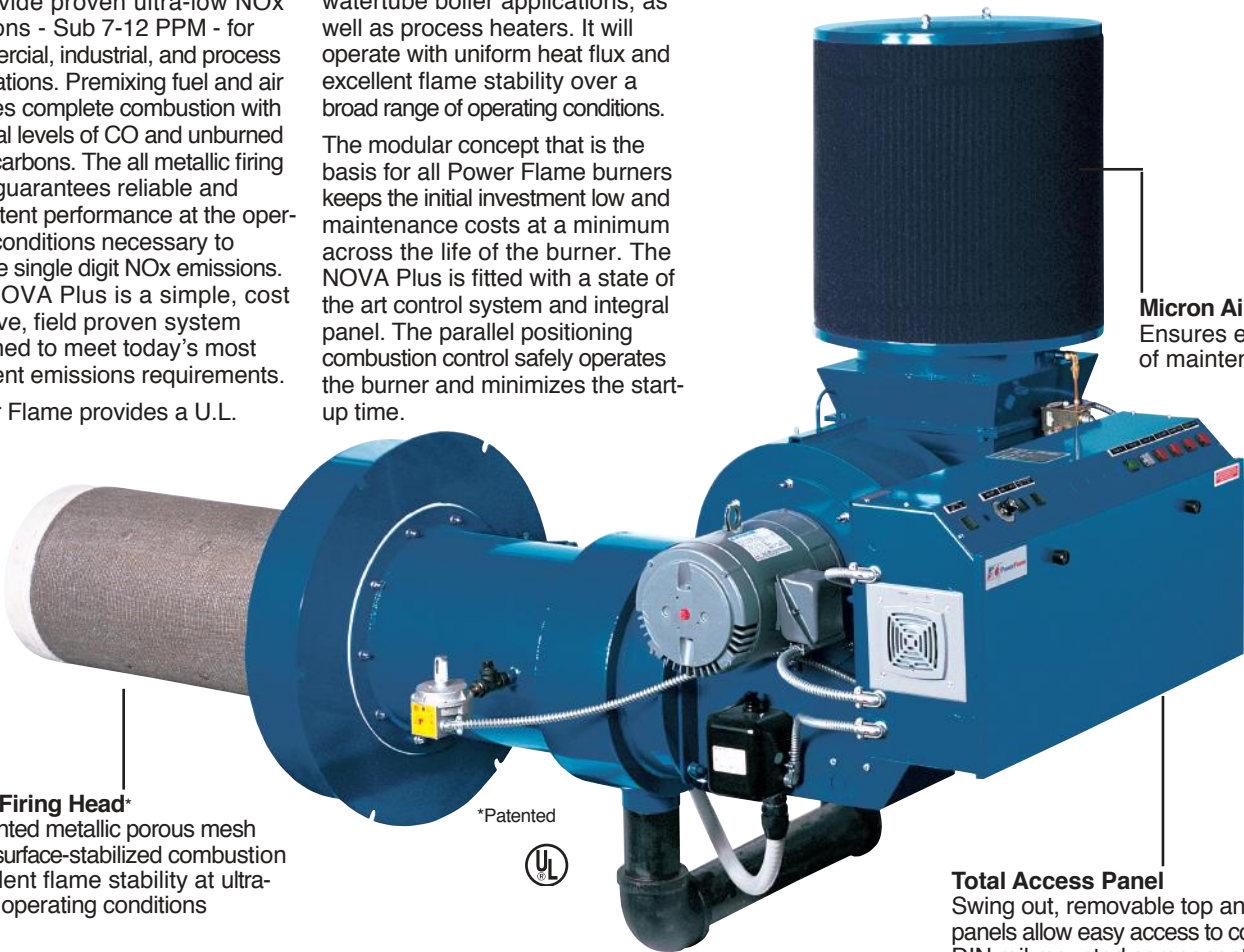
TYPE NOVA PLUS™

GAS:
2,000,000 – 64,200,000 BTU

The Power Flame NOVA Plus™ Combustion System employs a patented, fully premixed, surface stabilized combustion technology to provide proven ultra-low NOx solutions - Sub 7-12 PPM - for commercial, industrial, and process applications. Premixing fuel and air assures complete combustion with minimal levels of CO and unburned hydrocarbons. The all metallic firing head guarantees reliable and consistent performance at the operating conditions necessary to provide single digit NOx emissions. The NOVA Plus is a simple, cost effective, field proven system designed to meet today's most stringent emissions requirements. Power Flame provides a U.L.

listed, factory tested package tailored to your job specific requirements. The NOVA Plus is suitable for use on firetube and watertube boiler applications, as well as process heaters. It will operate with uniform heat flux and excellent flame stability over a broad range of operating conditions.

The modular concept that is the basis for all Power Flame burners keeps the initial investment low and maintenance costs at a minimum across the life of the burner. The NOVA Plus is fitted with a state of the art control system and integral panel. The parallel positioning combustion control safely operates the burner and minimizes the start-up time.



Metallic Firing Head*
The patented metallic porous mesh provides surface-stabilized combustion for excellent flame stability at ultra-low NOx operating conditions

*Patented



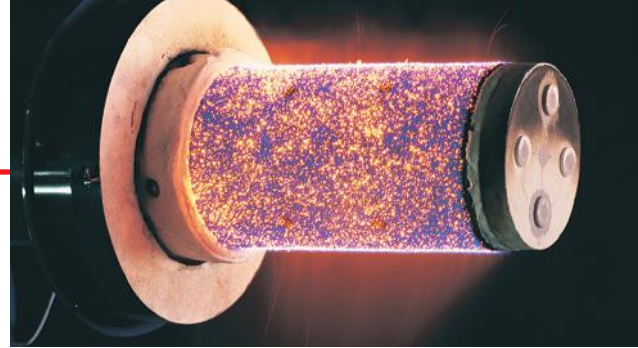
Micron Air Filter
Ensures ease of maintenance

Total Access Panel
Swing out, removable top and front panels allow easy access to compact DIN rail mounted components



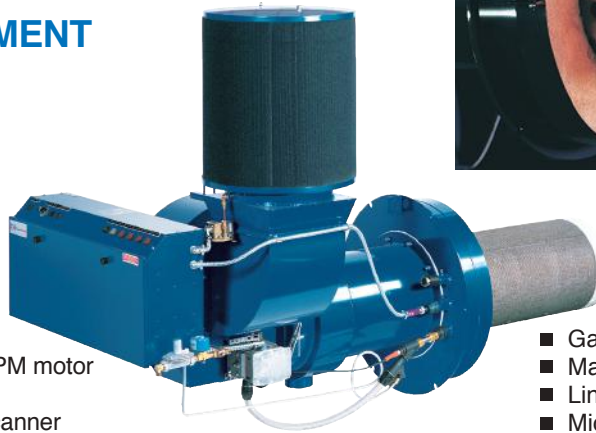
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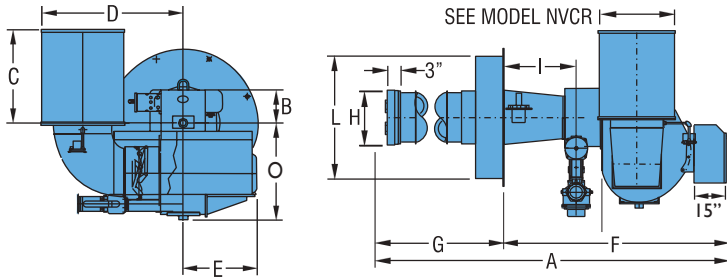
STANDARD EQUIPMENT



- Metallic fiber combustion head
- Blower assembly with 3450 RPM motor
- Venturi mixing chamber
- Combustion control with UV scanner

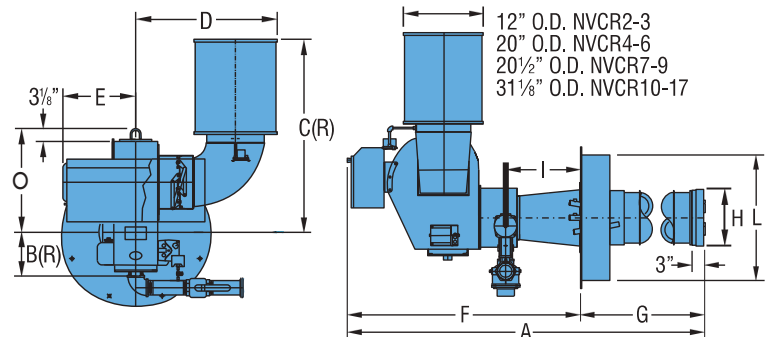
- Gas electric pilot with ignition transformer
- Main and pilot gas trains
- Linkageless controls (O₂ trim NVC12-NVC17)
- Micron air filter assembly

MODEL NVC



DIMENSIONS (Inches) Standard Models.

MODEL NVCR



RATINGS & SPECIFICATIONS

Burner Model	A	B	B(R)	C	C(R)	D	E	F	G	H	I	L Min.	O	CAPACITY ¹										
														Blower Motor HP Max.	Standard Gas Train Size (In.)	3.0" Furnace Pressure			6.0" Furnace Pressure			9.0" Furnace Pressure		
																Nat. Gas MBH Max.	Nominal BHP	Gas Pressure (In. W.C.) ² Min	Nat. Gas MBH Max.	Nominal BHP	Gas Pressure (In. W.C.) ² Min	Nat. Gas MBH Max.	Nominal BHP	Gas Pressure (In. W.C.) ² Min
NVC2-G-20B	69¾	4½	6¼	22¾	34¾	19¾	14	42¾	26¼	7¼	7¾	17½	15¼	1	1½	2,000	47.6	18	1,600	38	16	NA	NA	NA
NVC3-G-20	76¾	5¼	7	21¾	35¾	20	16	45½	31¾	7¼	7¾	17½	17	1½	2	2,500	59.5	18	2,000	48	16	NA	NA	NA
NVC3-G-25A	81¾	5¼	7	21¾	35¾	20	16	45½	37	7¼	7¾	17½	17	3	2	3,000	71.4	18	2,400	57	16	NA	NA	NA
NVC3-G-25B	86¾	5¼	7	21¾	35¾	20	16	45½	41¾	7¼	7¾	17½	17	3	2	3,500	83.3	18	2,800	67	16	NA	NA	NA
NVC4-G-30	92¾	6¼	7¾	28	38¾	32½	18½	60½	31¾	14½	20¼	23¾	18¾	5	2½	5,000	119	21	4,000	95	18	NA	NA	NA
NVC5-G-30A	97¾	6¼	7¾	28	38¾	32½	18½	60½	36¾	14½	20¼	23¾	18¾	7½	2½	6,000	142.9	21	4,800	114	18	NA	NA	NA
NVC5-G-30	102¾	6¼	7¾	28	38¾	32½	18½	60½	41¾	14½	20¼	23¾	18¾	7½	2½	7,000	166.6	21	5,600	133	18	NA	NA	NA
NVC6-G-30A	102¾	6¼	7¾	28	38¾	32½	18½	60½	41¾	14½	20¼	23¾	18¾	10	2½	8,400	200	21	6,720	160	18	NA	NA	NA
NVC6-G-30	111¾	6¼	7¾	28	38¾	32½	20	60½	51¾	14½	20¼	23¾	18¾	10	3	10,500	250	28	8,400	200	22	NA	NA	NA
NVC7-G-30	115¾	8¼	9¾	24½	48¾	34¾	20	64½	51¾	14½	19¼	23¾	23¾	15	3	12,600	300	28	10,080	240	22	7,000	167	20
NVC8-G-30	122½	8¼	9¾	23¼	49½	34¾	20	70¾	51¾	14½	19¼	23¾	28¾	15	3	14,700	350	28	11,760	280	22	7,200	171	20
NVC9-G-30	124¾	6¾	8¾	25½	38¾	35½	21½	79¾	46	22¾	27¾	31	29¾	15	3	16,800	400	56	13,440	320	40	9,200	219	36
NVC10-G-30A	128¾	7¾	9¼	26	41¾	45¾	27	83¼	46	22¾	26½	31	34¾	20	3	20,500	488	56	16,400	390	40	11,800	281	36
NVC10-G-30	128¾	7¾	9¼	26	41¾	45¾	27	83¼	46	22¾	26½	31	34¾	20	3	21,840	500	56	21,000	500	56	15,120	360	56
NVC11-G-30	140¾	8¼	10¾	25½	42¾	46½	27¾	80½	61	22¾	19¾	31	38¼	30	3	26,200	600	140	25,200	600	140	18,100	431	140
NVC12-G-30	142¾	8¼	10¾	25½	59½	46¾	27¾	81¾	61	22¾	19¾	31	38¼	30	3	30,500	700	140	29,400	700	140	25,290	602	140
NVC13-G-30	157½	8¼	10¾	49¼	66¾	46¾	27¾	81¾	75¾	22¾	19¼	31	38¼	40	3	36,500	810	140	36,114	860	140	32,800	781	140
NVC14-G-30	151¾	8¼	10¾	51¾	68¾	47¾	27¾	96¾	55¾	29	32¾	43½	38¼	40	3	39,500	905	140	39,000	929	140	36,480	869	140
NVC15-G-30	167½	8¼	10¾	51¾	68¾	47¾	27¾	96¾	71¾	29	32¾	43½	38¼	50	3	45,000	1,050	140	44,500	1,060	140	42,240	1,006	140
NVC16-G-30	177¾	10	13	49¾	82¾	48¾	26¾	97¾	79¾	29	31¾	43½	38¾	60	3	53,000	1,215	140	52,000	1,238	140	50,750	1,208	140
NVC17-G-40	207¾	11¾	14¾	47¾	84¾	49¼	37¾	102¼	105¾	29	31¾	43½	43	100	4	64,400	1,530	140	64,300	1,531	140	64,200	1,529	140

NOTES: 1. Capacities listed are based upon the furnace pressures noted. Derate capacities approximately 5% for each + 0.50" W.C. combustion chamber pressure. Consult factory for additional capacity information.
2. At inlet to main manual shutoff cock to obtain P/F certified ratings with standard U.L. gas train. Optional gas trains available for lower pressures.

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