

# V SERIES

**1.3 TO 16.8 MMBTU/HR**



**INDUSTRIAL  
COMBUSTION**

# Innovative Technology.

## Forced draft dual fuel burner.

Suitable for firetube, firebox, commercial watertube and cast iron boilers; the V series features a unique aerodynamic air damper design which permits accurate air-to-fuel settings for maximum combustion efficiency. The V series, available in uncontrolled, and low NOx configurations offers multi-fuel versatility to meet the toughest air quality standards. The current V series operate smoothly at ~3% excess O<sub>2</sub> with low CO emissions.

**Minimize emissions while **MAXIMIZING** efficiency, now *that's* something worth talking about.**



### **Unmatched Performance With the V-Burner**

Industrial Combustion's gas/dual fuel burners are ready for short delivery time, linkage-less LMV3 controls and predefined gas trains to ensure you get the most out of your burner.

### **Efficient Gas Combustion**

Gas is introduced through orifices ahead of the diffuser providing superior mixing of gas and air with excellent flame retention at all firing rates. The gas manifold is standard on all oil burners for future gas firing.

### **High Turndown**

Up to 10:1 turndown with natural gas and 5:1 with the low NOx option. High turndown allows for reduced heat loss due to short cycling, faster response times to meet load demands and less mechanical cycling.

### **Unique Air Damper**

Dual blade configuration offers precise control of combustion air flow throughout the entire firing range. The unique profile of the damper blades restricts air flow at low firing ranges leading to increased turndown capability.

### **Parallel Positioning as Standard**

The use of parallel positioning systems eliminates the need for linkage and reduces setup time. Better control throughout the firing range is also achieved with the use of a parallel positioning system. High accuracy and resolution with repeatable actuator positions increase the efficiency of the burner. Digital positioning feedback from actuators ensure precise control, repeatability, reliability and independent ignition position for greater flexibility.

# The V Burner Explained:

The V series burner offers: natural gas, propane gas or pressure #2 oil and combination gas and oil fuel options from 1.3 to 16.8 MM BTU per hour. The LNV burner, capable of <30 PPM NOx emissions offers: natural gas, propane gas or pressure #2 oil and combination gas and oil fuel options from 1.3 to 14.7 MM BTU per hour.

## V/ LNV Burner



- Parallel Positioning** available for optimal control throughout the firing range
- Dual Blade Air Damper** offers precise control of combustion air flow throughout firing range
- Gas Manifold** on oil burners standard for easy upgrade to combination units
- Combustion Air Fan** is an air-foil blade design providing smooth air release from the blades allowing for increased blower efficiency
- Induced FGR** FGR modulating valve and optional shutoff valve (LNV)
- No. 2 Oil** capability for back-up fuel
- Panel Mount Options** includes top or rear mount flexibility
- Inverted Configuration** available in lieu of standard configuration to meet space requirements
- Lower Gas Supply Pressure** available for New York City requirements
- UL & cUL** listed

Emissions	Frame	Model Range	Boiler HP	Capacities		Mode of Operation	Fuel
				MBH	GPH		
Uncontrolled	Size 1	13 - 25	30 - 60	1,300 - 2,500	9.3 - 25.0	On-Off <sup>1</sup>	Gas, Oil, Combination
		30 - 35	71 - 83	3,000 - 3,500	21.4 - 25.0	Low-High-Low <sup>2</sup>	Gas, Oil, Combination
Uncontrolled	Size 2	40 - 55	95 - 130	4,000 - 5,000	28.6 - 39.3	Low-High-Low <sup>2</sup>	Gas, Oil, Combination
Uncontrolled	Size 3	60 - 110	143 - 262	6,000 - 11,000	42.4 - 78.6	Low-High-Low <sup>2</sup> / Full Mod <sup>3</sup>	Gas, Oil, Combination
Uncontrolled	Size 4	120 - 168	286 - 400	12,000 - 16,800	85.7 - 120.0	Full Mod	Gas, Oil, Combination

<sup>1</sup> Low-high and full modulation optional, <sup>2</sup> Full modulation optional, <sup>3</sup> Full modulation is standard on models V70 and above

Emissions	Frame	Model Range	Boiler HP	Capacities		Mode of Operation	Fuel
				MBH	GPH		
<30 PPM	Size 1	13 - 25	30 - 60	1,300 - 2,500	9.3 - 17.9	Full Mod	Gas, Combination
<30 PPM	Size 2	30 - 50	71 - 119	3,000 - 5,000	21.4 - 35.7	Full Mod	Gas, Combination
<30 PPM	Size 3	54 - 90	129 - 214	5,400 - 9,000	38.6 - 64.3	Full Mod	Gas, Combination
<30 PPM	Size 4	100 - 147	238 - 350	10,000 - 14,700	71.4 - 105.0	Full Mod	Gas, Combination



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